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BULLETIN 103

OIL AND GAS DEVELOPMENTS IN KANSAS DURING 1952

By

W. A. VER WIEBE, E. D. GOEBEL, J. M. JEWETT, and A. L. HORNBAKER



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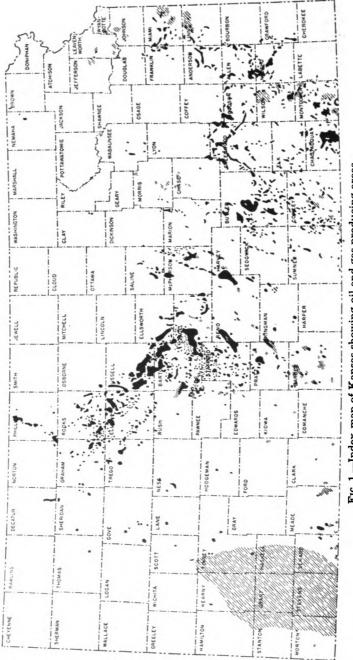


Fig. 1.—Index map of Kansas showing oil and gas producing areas.

OIL AND GAS DEVELOPMENTS IN KANSAS DURING 1952

By
W. A. VER WIEBE, E. D. GOEBEL, J. M. JEWETT,
and A. L. HORNBAKER

ABSTRACT

Kansas oil production in 1952 totaled 114,399,556 barrels, which was 0.4 percent more than in 1951. In value the 1952 output of crude oil increased to \$294,006,859 from \$292,754,781 in the preceding year.

Natural gas production in Kansas reached an all-time high of 408.7 billion cubic feet (14.65 psia.); the Hugoton Gas Area produced 375 billion cubic feet, 92 percent of the State's total.

During the year 157 new oil and 10 new gas pools were discovered, far exceeding discoveries for any previous year. Eight previously abandoned oil or gas pools were revived.

Discovery of oil production from zones older than the Chase group in the Hugoton Gas Area is a significant development. Osborne, Lane, and Thomas Counties brought the total number of past and present oil-producing counties to 78.

In 1952, 5,136 wells of record, 4 percent more than in 1951, were drilled in 84 Kansas counties in connection with the petroleum industry. Of the recorded completions, 2,396 were oil wells, 305 were gas wells, 2,045 were dry holes, and 387 were salt-water disposal wells or wells used as input wells in connection with secondary recovery operations. Of the dry holes, 725 were wildcats.

As in 1951, Barton County with a production of 16,959,379 barrels, was the largest oil producer among the counties. Russell and Ellis Counties, ranked second and third, each produced more than 11 million barrels. The Trapp field of Russell and Barton Counties was the top-ranking field of the State with a production of 6,279,833 barrels of oil in 1952. The State's top five oil fields—the Trapp, Kraft-Prusa, Chase-Silica, Hall-Gurney, and Bemis-Shutts—accounted for more than 24 million barrels of the State's total oil production of 114.4 million barrels.

In 1952, Kansas produced 196 million gallons of natural gas liquids valued at more than 12 million dollars. There are more than 168 million barrels of natural gas liquids listed as proved reserves.

The proved reserves of Kansas crude oil at the end of the year were 917 million barrels, 125 million barrels more than last year's estimated reserves. Proved reserves of natural gas are about 14.2 trillion cubic feet, the highest in the State's history.

Production from secondary recovery projects in Kansas accounted for 9,196,510 barrels of oil during 1952. A total of 5,902 producing wells and 4,507 injection wells were reported operating during the year. Greenwood County led all other counties in the amount of oil produced by secondary recovery methods with 4,528,863 barrels.



INTRODUCTION

During 1952 new records were established in all phases of the Kansas petroleum industry. New highs were attained in the production of crude oil, natural gas, natural gasoline, and LPG. The dollar value of these resources exceeded all previous records. The number of new wells drilled and the number of new oil and gas pools discovered reached the highest figure ever attained by the industry in Kansas.

New zones of production as well as new areas of production were developed in Kansas during 1952. The finding of shallow production in the older oil fields along the Central Kansas uplift was a notable development. Osborne, Lane, and Thomas Counties were added to the family of Kansas oil producing counties, bringing the total number of Kansas counties that have or are producing oil or gas to 78. A significant development in the industry was the discovery of commercial quantities of oil in the Lansing-Kansas City group of rocks within the defined area of the Hugoton Gas Area. Significant gains were made by the petroleum industry through the discovery of three other new oil fields in Finney County, four oil fields in Decatur County, nine oil fields in Graham County, four in Gove County, and 14 new "Bartlesville" and Mississippian oil fields in Cowley County.

As in 1951, Stafford County led all other counties in the number of new pool discoveries with 23 oil and 2 gas pools. Other counties with large numbers of new discoveries are: Barton 17 oil, 1 gas; Ellis 16 oil; Rooks 15 oil; and Cowley 14 oil.

Crude oil production increased nearly half a million barrels over the 1951 figure in spite of the May oil worker's strike during which the monthly pipe-line runs were more than 4.5 million barrels below the State allocation. Subsequent increases in the monthly allocations helped to make up some of the difference during the remainder of the year. Increases in the amount of oil produced through secondary recovery methods helped to realize the overall increase in crude production.

Natural gas production showed an increase of 0.4 percent over the 1951 figure, while the production of natural gas liquids increased 6.5 percent. Proved reserves of natural gas in Kansas increased 5.5 percent, while the proved reserves figure for the nation increased only 3.1 percent.



Figure 1 is a map of Kansas showing in a general way areas within which there is production of oil or gas or both. Only a small fraction of the oil and gas territory is actually in production or included within pools because there are broad areas of barren country between pools. The map is useful, however, in showing county relations and also an idea of how large a percentage of the State may be considered "oil and gas territory."

A condensed petroleum data table (Table 2) shows at a glance the trends of the various phases of the industry in Kansas, as well as corresponding trends in the United States. Comparison of the two right hand columns of Table 2 shows whether or not Kansas is holding its own in the nation's petroleum industry.

Production and value.—Production of crude oil in Kansas during 1952, 114.4 million barrels, is about half a million barrels more than the previous high set in 1951. No notable change occurred in the price of crude oil in the State; the calculated value of the production totals more than 294 million dollars.

Natural gas production during 1952 increased to more than 408.7 billion cubic feet (Kansas Corporation Commission figure calculated at 14.65 psia.) or 0.4 percent more than the 1951 figure. Natural gas from the Hugoton Gas Area and other parts of "western Kansas" has a minimum value of 8 cents per thousand cubic feet at 16.4 psia. at the well head established by the Kansas Corporation Commission. However, they have estimated the average value at 9 cents per thousand cubic feet; this figure has been applied to all Kansas natural gas production, including the minor amount of unprorated production, much of which probably brings a higher price. Thus, the 1952 natural gas production from the State was valued at more than 32.8 million dollars.

Kansas production of natural gas liquids during 1952, 196.5 million gallons, set a new record in value also, more than 12 million dollars. Revised figures of the 1951 production were 184.4 million gallons valued at 11.3 million dollars.

The total value of Kansas raw products of the petroleum industry (crude oil, natural gas, and natural gas liquids) produced in 1952 was 338.9 million dollars, which was a new record, exceeding all previously established highs.

Barton County continued to be the largest oil producer in the State. Table 3 shows that the seven largest producing counties



Table 2.—Petroleum data table showing percentage changes for Kansas and the United States, 1951-1952

United

		Kans:	Kansas figures 1952	Kansas percentage change	States percentage change
-10	Crude oil production (barrels)	113,912,3661	114,399,5561	+ 0.4	+1.9
ie	_	\$292,754,781	\$294,006,859	+ 0.4	
4		5.2	5.1	- 1.9	
i	_	\$2.57 54h	\$2.57		
9 6		951,515,0002	1,085,216,000	+14.1	+24
: o	40	8.0:1	9.0:1	+12.5	
	Out producting area on western mansas of counties (acres)	553,548	598,490	+ 8.1	
9		407,192,2524	408,732,836	+ 0.4	+8.4
=	-	\$29,099,4515	\$32,860,740		
12	Value of natural graceline and LPG (natural gas inquids), gailons	184,443,7721*	196,461,8041	+ 6.5	9.9+
200	-	\$11,317,6200*	\$12,023,205	+ 6.2	
17	, ,	13,457,4982	14,193,5652	+	+31
. 4		30.2:1	34.3:1	+13.6	1.0
9		2,310,850	2.502.200	+	
17	Recorded well completions in Prosess	154	1679	+ 8.4	
	Oil Compression in February				
	Gas	2,152	2,3967	+10.9	
	Dry	343	3057	-11.1	*******
	Salt-water disposal	1,884	2,045	+ 7.5	:
			100		
	Total recorded Wildcats and discovery wells (included in above total)	4,908	5,136	+ 4.6	

Figures supplied by Kansas Corporation Commission, Conservation F Pigures from American Petroleum Institute and American Gas Association, 1952. Barrels have 42 U.S. gallons and gas is based at 14.65 psia. at 60° F.

The petroleum area of "western Kansas" is taken to include all producing counties west of the Cowley-Butler-Marlon-Dickinson (Figures supplied by Kansas Corporation Commission recalculated to base 14.65 psia.

Natural gas from Hugoton Gas Area and other parts of "western Kansas" has a minimum value of 8 cents per M cubic feet at 16.4

psia. at the well head established by the Kansas Corporation Commission; however, they have estimated the average value at 9 cents per M cubic feet and this figure has been applied to all 1952 Kansas production.

This aggregate figure is based on unit values of the several products that reflect wholesale prices at the plant.

Includes pool wells and new discoveries.

Includes salt-water disposal and recorded secondary recovery into Womitting revived pools.

* Revised figures.

Total produc-Producing Rank County acreage tion, barrels Barton 106,000 16,959,379 2 11,635,324 Russell 78,630 3 51,630 11,070,399 Ellis 4 Rice 68,360 9,566,545 5 Butler 64,660 8,164,208 7,287,132 6 Rooks 34,460 7 47,220 6,462,936 Stafford

TABLE 3.—Largest oil-producing counties in Kansas during 1952

have not changed rank for three years. Table 4 shows that the Hall-Gurney field replaced the Bemis-Shutts field in fourth place, moving the latter to fifth in field production. The Trapp field (Barton and Russell Counties) maintained first place. Annual oil production in Kansas from 1890 through 1952 is shown graphically in Figure 2. A summary of oil produced, imported, used, and exported during 1952 is given in Table 5.

It should be noted that in Table 2 and in the abstract, figures on the production of natural gas in Kansas have been calculated to a pressure base of 14.65 pounds per square inch absolute to correspond with analogous figures published by the American Petroleum Institute, the American Gas Association, the U.S. Bureau of Mines, and the leading oil and gas periodicals. This is a rather common pressure base on which gas is sold to the consumer. However, the Kansas Corporation Commission, dealing largely with the production of gas at the well head, uses a pressure base of 16.4 psia. A change to the more common pressure base is now being considered by the Kansas Corporation Commission. In the general production table (Table 67) figures on gas production of the many pools are based on 16.4 psia.

Separate detailed production tables for oil and gas are given in this bulletin. Each includes in alphabetical order all counties in the State which have oil or gas production. The listing of each county shows both current and known cumulative production,

TABLE 4.—Largest oil-producing fields in Kansas during 1952

Rank	Pool	Age, years	County	Total produc- tion, barrels
1	Trapp	17	Russell-Barton	6,279,833
2	Kraft-Prusa	16	Barton-Ellsworth	5,415,209
3	Chase-Silica	22	Rice-Barton-Stafford	4.898.753
4	Hall-Gurney	22	Russell-Barton	4,199,197
5	Bemis-Shutts	18	Ellis	3,642,381



Table 5.—Summary of oil produced, imported, used, and exported in 1952 (From the Conservation Division, Kansas Corporation Commission)

	Barrels of oi
Produced	114,399,556
Imported	20,312,717
Total	134,712,273
Exported	54,125,689
Refined and used in Kansas	80,586,584
Total	134,712,273

producing area, names of pools (alphabetically arranged), discovery year, producing zones, and reported number of producing wells. Totals for each county are given so that comparisons can be made. Where oil or gas pools extend across county lines every effort has been made to divide accurately the respective productions on the basis of the output of the leases themselves. All figures are compiled with reasonable diligence: however, precise accuracy is not claimed. It is impossible at the present time to assign Hugoton Gas Area production to each of the nine counties which contribute.

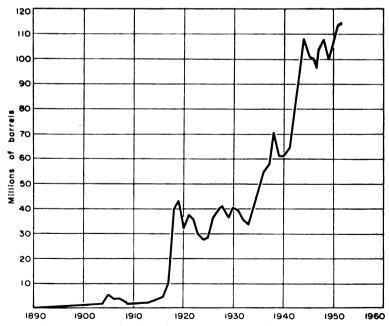


Fig. 2.—Annual oil production in Kansas from 1890 to 1952.

Owing to the fact that the gravity of oil varies rather widely from pool to pool, it is not practical to assign dollar valuation to production from the various counties.

Reserves.—Kansas proved reserves of liquid hydrocarbons (crude oil plus natural gas liquids), as of December 31, 1952, were 1,085.2 million barrels. This represents an increase of 14.1 percent, while the national trend increased only 2.4 percent. Kansas proved reserves of crude oil were estimated to be 916 million barrels (API-AGA, 1952, p. 9) at the end of 1952. This represents an increase in the estimate of crude oil reserves of more than 125 million barrels.

Proved reserves of natural gas in Kansas at the end of 1952 were estimated by the Reserves Committee of the American Gas Association to be 14.2 trillion cubic feet, an increase of 5.5 percent. Kansas proved reserves of natural gas liquids, 163.5 million barrels, increased the 1951 estimate by 2.4 percent. All estimates of reserves are taken from the American Petroleum Institute and American Gas Association's annual report on reserves.

Area of production.—The producing area of Kansas oil and gas pools or the producing oil and gas area (the two overlap in some cases) has been calculated and shown as accurately as reasonably possible. It should be noted, however, that the producing areas as shown by the maps and in the figures are those that would be arrived at if an oil-production man rather than a geologist were drawing the field limits. Pool boundaries have been drawn a short distance outside the outermost producing wells. Where dry holes show the boundaries, the limits have been drawn between dry holes and the producing wells. Undoubtedly, the drawing areas of the reservoirs in many cases extend considerably beyond the limits as indicated. However, for practical purposes, the limits have been drawn and areas calculated on the basis of lines drawn just outside the productive area demonstrated by present development.

In the case of eastern Kansas counties, it has seemed desirable to omit from the map (Plate 1) the boundaries of the oil fields as they were drawn many years ago, since they contain very large areas that are not producing at the present time. Only areas that were producing oil during 1952 are shown on the map and assigned acre areas in the table. It is the custom of the State Geological Survey of Kansas to issue, about every five years, a bul-



letin on the oil and gas developments in eastern Kansas. Bulletin 77 by John Mark Jewett, published in 1949, is the latest. A similar report, to be published this year, is in preparation. In such bulletins the limits and significance of boundaries of the old fields, most of the areas of which are now unproductive, are shown.

New pools.—During 1952, 157 new oil pools and 10 new gas pools were discovered in Kansas. Eight previously abandoned oil pools were revived during the year. Of the 165 new and revived oil pools, 8 were carried on the scout reports as dry and abandoned, while 3 of the pools were combined with other pools. Stafford County had 25 new pools discovered, Barton County 18, Ellis County 16, Rooks County 15, and Cowley County 14.

The new pool discoveries are listed in Table 6. The number of new oil and gas pools discovered during 1952 far exceeds any previous record. During 1952, Lane, Osborne, and Thomas counties were added as oil-producing counties. The total of Kansas counties which have in the past or are at present producing commercial quantities of oil or gas or both is 78.

TABLE 6.—New oil and gas fields discovered in Kansas during 1952

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial production per day, bbls.
Barber County					
Amber Creek NE SW 36-30-12W	W. J. Coppinger No. 1 Herndon	Mississippian	4,296 (top)	Nov.	28
Stumph SW SW 7-32-14W	Natl. Coop. Ref. Assn. No. 1 Stumph-Smith	Simpson	4,963-4,970	July	509
Turkey Creek North NE SE 17-30-15W	Nadel & Gussman No. 1 Gypsum "B"	Penn. basal conglomerate	4,541-4,553	Jan.	25
Barton County					
Alefs SW SW 14-19-14W	Ben F. Brack Oil Co., Inc. No. 1 Alefs	Arbuckle	3.474-3,482	Apr.	30
Bieberle NW NW 4-19-11W	Shelley-Miller Drlg. Co. No. 1 Bieberle	Arbuckle	3.395-3.405	Oct.	123
Buckbee Southwest SW SE 15-20-12W	Lewis Drlg. Co. No. 1 Buckbee	Arbuckle	3,373-3,385	Dec.	1.551
Frank SE SW 7-19-12W	Alpine Oil & Royalty Co., No. 1 Hammeke "B"	LansK.C.	3,322-3,328	Mar.	75
Great Bend Airport SE NW 26-19-14W	Honaker Drlg. Co., Inc. No. 1 Opie	LansK.C.	3,320-3,324	Jan.	1,272
Great Bend Southwest NW SE 25-19-14W	Thomas H. Allan et al. No. 1 Clarke	LansK.C.	3.322-3.326	Jan.	296
Hawkins NE NW 3-19-13W	Derby Drlg. Co. No. 1 Hawkins	Arbuckle	3.393-3.409	July	110
Heizer Northeast SE NW 15-19-14W	Isern Bros. et al. No. 1 Weber	LansK.C.	3.353-3.367	Mar.	77
Heizer Southwest SW SW 21-19-14W	Honaker Drlg. Co. No. 1 Witte	Penn basal conglomerate	3.496-3,501	June .	2,224,000 cu. ft. gas

Hiss East NW NW 33-20 13W	Musgrove Petro. Corp. No. 1 Hiss	Arbuckle	3,549-3,566	Dec.	50
Kramp NE NE 7-19-11W	J. A. Terteling & Sons No. 1 Kramp	Arbuckle	3,351-3,385	Oct.	90
Liberty NW SW 23- 20-14W	Petroleum Inc. No. 1 Janne	LansK.C.	3,341-3,346	Nov.	25
Lott SW SW 26-16-12W	Honaker Drig. Co. No. 1 Lamatsch (Now part of	Arbuckle f the Beaver So	3.354 (top) uth field)	Jan.	50
Mary Ida North NW SE 25-18-11W	Overland Drlg. Co. No. 1 Ames	Arbuckle	3,304-3,311	Dec.	D & A
Peach (Revived) SW NE 25-16-14W	Anschutz Drig. Co. No. 1 Chaloupka (SEc NW 25-16-14W)*	LansK.C.	3.373-3,377	Jan.	10
Redwing South SE NW 6-18-12W	E. H. Adair Oil Co. No. 1 Eveleigh "E"	Arbuckle	3,325-3,333	Mar.	30
Sandrock South NE SE 28-20-13W	Petroleum Inc. No. 1 Tucker "A"	LansK.C.	3,418-3,430	Aug.	504
Walnut Creek SW NE 8-19-13W	Sohio Petro. Co. No. 1 Cook "B"	LansK.C.	3,347-3,354	Nov.	190
Butler County					
Bare SE NW 31-28-5E	White & Ellis Drlg. Co. No. 1 Bare	"Bartlesville"	2,778-2,789	June	11
Brickley Southwest SW SE 3-27-7E	K. T. Wiedemann No. 1 Lucas	"Bartlesville"	2,699-2,732	Sept.	20
Murdock NW NW 23-25-3E	R. J. Wixson Drlg. Co. No. 1 Brainerd	Mississippian	2,709-2,719	Feb.	10
Clark County					
Snake Creek SE SE 21-34-21W	Sunray Oil Corp. No. 1 Harper	Morrowan	5,452-5,460	May	6,500,000 cu. ft. gas
Cowley County					
Arkansas City West SW SW 23-34-3E	Aylward Drlg. Co. No. 1 Land-Power	"Bartlesville"	3,291-3,295	Apr.	58
Bergkamp NW SE 6-35-4E	Smitherman-Cohen Drlg. Co. No. 1 Bergkamp	"Bartlesville"	3,202-3,225	Feb.	74
Bergkamp Northwes NW NW 6-35-4E	stFlossmar Oil & Gas Co. No. 1 Maurer-Neuer	"Bartlesville"	3,208-3,211	Nov.	25
Bogner SE NE 24-31-5E	Palmer Oil Corp. No. 1 Bogner	Mississippian	2,999-3,053	Mar.	25
Cabin Valley NE NE 31-33-6E	Crest Petroleum, Inc. No. 1 Berry	"Layton"	2,188-2,197	June	25
Canfield NE NW 13-34-3E	Aylward Drlg. Co. No. 1 Canfield	"Bartlesville"	3,375-3,379	May	13
Copeland NW NE 5-35-4E	Spencer & Tobias No. 1 Copeland	Mississippian	3,211-3,224	Dec.	2
Dutch Creek NE NW 35-31-4E	Helmerich & Payne No. 1 Stucky	"Bartlesville"	2,924-2,938	Dec.	2
Enterprise Northeast NW SE 35-33-3E	Helmerich & Payne No. 1 Wright "F"	"Bartlesville"	3,335-3,347	Sept.	443
Fussell NW SE 14-34-3E	Crest Drig. Co. No. 1 Fussell	"Bartlesville"	3,348-3,360	Oct.	50
Gibson South SE NW 32-34-3E	The Texas Co. No. 1 L. M.Bryant (Now part	"Bartlesville"	3.383-3.388	Feb.	80
Harvey NW NW 23-34-3E	Martin & Cash Drlg. Co. No. 1 Harvey	"Bartlesville"	3,278-3,296	July	2.382
Harvey Northwest SW NE 15-34-3E	Smitherman & Cohen No. 1 Oglesbee	"Bartlesville"	3,298-3,318	Oct.	3,000
Turner West SE NE 25-32-5E	Coop. Ref. Assn. & E. F. Wakefield No. 1 Abildgard	Mississippian	3.054 (top)	Mar.	16
Decatur County	~				
Adell Northwest SE NE 34-5-27W	Continental Oil Co. No. 1 Geo. Gillespie	LansK.C.	3,632-3,686	Jan.	1,192



TABLE 6.—New oil and gas fields discovered in Kansas during 1952, continued

County, pool, and location of dis- covery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial production per day, bbls.
Feely SE SW 2-5-27W	Continental Oil Co. No. 1 C. E. Feely	LansK.C.	3,590-3,604	May	784
Hardesty NE NE 22-5-27W	Continental Oil Co. No. 1 J. E. Hardesty	LansK.C.	3,642-3,658	Feb.	844
Monaghan SW SW 15-2-27W	E. K. Carey No. 1 Monaghan	LansK.C.	3,514-3,569	July	24
Ellis County					
Antonino Town- site East NE NE 1-15-19W	Petroleum, Inc. No. 1 Wilson "B"	LansK.C.	3,344-3,346	Aug.	83
Bielman SW SW 24-15-18W	Jones, Shelburne & Farmer, Inc. No. 1 Bielman	Arbuckle	3,496-3,500	July	75
Emmeram Townsite SW NE 6-13-16W	Victor Drlg. Co. No. 1 Windholz	Arbuckle	3,520-3,530	Oct.	600
Experiment SW SW 8-14-18W	Shelley-Miller Drlg. Co. No.1 Kansas State	Arbuckle	3,675-3,680	May	114
Giinther NE SW 17-11-19W	Natl. Coop. Ref. Assn. No. 1 Giinther	Arbuckle	3,554-3,558	Apr.	111
Hertel NE NW 16-14-16W	Anschutz Drlg. Co., Inc. No. 1 Hertel	LansK.C.	3,134-3,172	May	76
Hertel Southwest SE NE 17-14-16W	Musgrove Petro. Corp. No. 1 Rohleder	LansK.C.	3.215-3,219	July	259
Jensen NE NE 26-12-18W	B & R Drlg., Inc. No. 1 "B" Jensen	Arbuckle	3,621-3,625	Feb.	79
Nicholson North SW NW 19-11-20W	Imperial Petro Co., Inc. No. 1 Vance	LansK.C.	3,610-3,614	Jan.	316
Pleasant Northwest SE SW 27-13-20W	Imperial Petro Co., Inc. No. 1 Giebler "B"	Arbuckle	3,814-3,830	Aug.	304
Raynesford SW NW 17-13-20W	Imperial Petro Co., Inc. No. 1 Raynesford "A"	Penn. basal conglomerate	3,870-3,875	Aug.	132
Raynesford East NW SW 16-13-20W	Victor Drlg., Inc. & Deep Rock Oil Corp. No. 1 Brungardt	Arbuckle	3,861-3,870	Dec.	173
Rome SE NE 27-13-17W	Murfin Drlg. Co. No. 1 Rome	Arbuckle	3,525-3,530	Dec.	459
Sessin SW NE 15-11-19W	Okmar Oil Co. No. 1 Sessin "B"	Arbuckle	3,499-3,502	Feb.	2.236
Sunnydale SW NE 1-14-20W	Kenneth A. Ellison No. 1 Hertel	Arbuckle	3,850-3,860	Nov.	20
Ubert Northwest NW NW 1-13-18W	Alpine Oil & Royalty Co., Inc. No. 1 Grissman	Arbuckle	3,592-3,606 1/2	May	251
Weisner (revived) NW NW 36-12-20W	Flynn Oil Co. No. 1 Weisner (old well worked over)	Penn. basal conglomerate		May	D & A
Ellsworth County					
Andrews NW NW 4-17-8W	El Dorado Refg. Co. No. 1 Andrews	Arbuckle	3,302-3,305	Aug.	132
Maes SW SE 26-17-8W	E. K. Carey Drlg. Co., Inc. No. 1 Maes	Arbuckle	3,341-3,357	Feb.	478
Finney County					
Beyer SE NW 24-26-33W	W. J. Coppinger No. 1 Beyer	LansK.C.	4.398-4,406	Dec.	191



Damme South SW SE 28-22-33W	W. L. Hartman No. 10 Damme	Mississippian	4,690 (top)	Oct.	244
Sonderegger NE NE 21-22-31W	Coop. Ref. Assn. No. 1 Sonderegger	Mississippian	4,737 (top)	Dec.	295
Stewart SW NW 6-23-30W	Coop. Ref. Assn. No. 1 Stewart	Mississippian	4,710 (top)	Oct.	24
Gove County					
Beougher NW SE 8-13-30W	Skiles Oil Corp. No. 1 Beougher	LansK.C.	4,079-4,082	Mar.	4
Lundgren NE NW 30-14-29W	Skiles Oil Corp. No. 1 Lundgren	Mississippian	4,306-4,316	Mar.	Temp. abd.
Lundgren South NE SW 31-14-29W	Wycoff-Williams No. 1 Lundgren	Mississippian	4,277-4,283	Aug.	236
Pyramids NW NW 9-15-31W	D. R. Lauck Oil Co., Inc. No. 1 Jones (old well worked	Marmaton over)	4.280-4,290	June	150
Graham County					
Alda (revived) NW SW 15-7-22W	Murfin Drlg. Co. No. 1 Davis (NWc 15-7-22W)*	LansK.C.	3,694-3,697	Dec.	31
Alda West SW NW 16-7-22W	Murfin Drig. Co. No. 1 Worcester	LansK.C.	3,719-3,722	June	387
Bass Southwest SE NE 14-10-21W	Jones, Shelburne & Farmer, Inc.	Arbuckle	3,786-3,794	Mar.	364
3E NE 11-10-21W		of the Cooper fle	eld)		
Dorman NW NW 30-10-23W	Musgrove Petro. Corp. No. 1 Dorman	LansK.C.	3,921-3,928	Feb.	345
Mickleson NW SE 27-8-22W	Jones, Shelburne & Farmer, Inc. No. 1 Mickleson	Arbuckle	3,759-3,775	Oct.	278
Noah NW SE 27-10-21W	Jones, Shelburne & Farmer, Inc. No. 1 Noah "D"	Arbuckle	3,786-3,793	May	234
Schmied NW SE 21-8-25W	Bay Petro Corp. No. 1 Schmied	LansK.C.	3,740-3,744	May	68
Schmied North SE SW 16-8-25W	Empire Drlg. Co. No. 1 Madden-Davis	LansK.C.	3,795-3,801	Oct.	80
Schnebly SE SE 8-8-22W	Murfin Drig. Co. No. 1 Schnebly	LansK.C.	3,507-3,512	Oct.	214
White NW SW 25-10-21W	Petroleum, Inc. No. 2 White	Arbuckle	3.716-3,720 1/2	May	154
Harper County					
Bluff Creek SW NW 24-34-5W	The Texas Co. No. 1 Baker	LansK.C.	3,938-3,943	Sept.	26
Kingman County					
Artesian Valley NE NE 22-27-10W	Amerada Petro. Corp. No. 1 Richardson	Viola	4,315-4,323	June	2.359
Casley SW NW 11-28-5W	Pabco Drlg. Co. No. 1 Casley	Mississippian	3.794-3,801	Oct.	318
Lane County	••••••••••••••••••••••••••••••••••••••				
North Fork	Hugoton Prod. Co.	LansK.C.	4.333-4.352	June	160
NE SW 19-17-29W	No. 1 Floyd	LansR.C.	4,000-4,002	June	100
Marion County					
Biscuit Hill N ₂ SE 33-21-4E	W. R. Atkinson et al. No. 1 Brown	Mississippian	2,269-2,275	Mar.	3
Shank SE NW 12-22-3E	Aladdin Petro. Corp. No. 1 Burton	Mississippian	2,474-2,501	July	75
Meade County					
Bromwell SW NW 7-34-29W	R E Adams No. 1 Bromwell	Morrowan	5.901-5.908	Apr.	25



County, pool, and location of dis- covery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial production per day, bbls.
Fringer NE NE 7-35-29W	Columbian Fuel Co. No. 2 Adams "G"	Morrowan	5,780-5,793	May	5,213,000 cu. ft. gas
Stevens NE NE 32-32-30W	Columbian Fuel Co. No.1 Stevens	Morrowan	5,560-5,597	Sept.	8,755,000 cu. ft. gas
Osborne County					
Ruggles NW NW 23-10-15W	Anderson-Prichard Oil Corp. No. 1 Ruggles	Penn. basal conglomerate	3,394-3,410	Jan.	193
Pawnee County					
Benson South SE SW 30-23-15W	M. B. Armer Drlg. Co., Inc. No. 1 Garvin	LansK.C.	3,754-3,758	June	401
Larned (revived) SW NE 34-21-16W	Musgrove Petro. Corp. No. 1 Phinney (NE SW 28-21-16W)*	Arbuckle	3,851-3,856	Sept.	3,000
Phillips County					
Fredericksburg NE NW 4-1-18W	Alpine Oil & Royalty Co., Inc. No. 1 Kauk	LansK.C.	3,457-3,460	Mar.	50
Hansen West SE NE 15-5-20W	J. H. Johnson No. 1 Lappin	Arbuckle	3,543-3,554	Dec.	15
Pratt County					
Barnes NE SW 25-27-12W	Anschutz Drlg. Co., Inc. No. 1 Barnes	Simpson	4,328-4,336	Jan.	7,860,000 cu. ft. gas
Blowout NE NE 8-27-14W	Lion Oil Co. No. 1 Eubank	LansK.C.	3,929-3,936	Jan.	oil. bbl. 20 8,000,000 cu. ft. gas
Chance East NE SE 34-26-13W	R. W. Rine Drlg. Co. No. 1. Briggeman	Viola	4,261-4,277	June	220
Jarboe N½ SE 25-26-14W	Rine Drlg. Co. No. 1 Jarboe (old well work	LansK.C. ed over)	3,834-3,848	Sept.	31/2
Reno County					
Keddie NE SW 26-23-10W	Nadel & Gussman No. 1 Paine (old well worked	LansK.C. l over)	3,299 (top)	July	D & A
Nicklaus Lot 3 3-26-4W	Saturn Drlg., Inc. No. 1 Nicklaus	LansK.C.	3,249-3,251	Nov.	87
Sankey Southwest NW SE 21-22-10W	Natl. Coop. Ref. Assoc. No. 1 Schweizer	Viola	3.548-3,550	Jan.	483
Rice County					
Bingham NE NW 35-19-9W	W. L. Hartman No. 1 Bingham	Arbuckle	3,332 (top)	Apr.	25
Calf Creek North SW NE 28-18-10W	Vickers Petro. Co., Inc. No. 1 Roesler "B"	Arbuckle	3.248-3.261	Dec.	80
Click (revived) SW SE 3-18-7W	A. D. Allison No. 1 Click (SEc NE 3-18-7W)*	LansK.C.	3,050-3,054	Mar.	25
Fair SW SE 15-21-10W	Magnolia Petro. Co. No. 1 James H. Fair	Penn. basal conglomerate	3,358-3,368	Jan.	11
Farmer NE SE 24-18-10W	Nadel & Gussman No. 1 Bredfeldt	Arbuckle	3,222-3.228	May	1,166
Galt (revived) SW NE 8-18-7W	Birmingham-Bartlett Drlg. Co. No. 1 Fergueson (NW NE 8-18-7W)*	Arbuckle	3.193-3.197	July	152
Schulz NE NE 15-18-10W	Ash-Mur Drlg. Co. No. 1 Schulz (old well work	Arbuckle ed over)	3,500 (top)	Aug.	D & A



Rooks County					
Bartos SW SW 15-9-19W	Grant Oil Co. No. 1 Bartos	Arbuckle	3,544-3,549	June	50
Bassett Southwest SW NW 29-10-20W	Virginia Drlg. Co. No. 1 Thomas	Arbuckle	3,679 (top)	Dec.	28
Baumgarten Northeast NE NE 30-9-18W	Heathman & Strain Drig. Co. No. 1 Jelinek	Arbuckle	3,608-3,617	Dec.	149
Brungardt SE SE 35-10-17W	Champlin Refg. Co. No. 1 Brungardt	LansK.C.	3,194-3,210	Aug.	233
Dancer NE NW 4-8-17W	Murfin Drlg. Co. No. 1 Dancer	LansK.C.	3,140-3,152	Feb.	227
Dopita East SE SE 29-8-17W	Murfin Drlg. Co. No. 1 Stamper	LansK.C.	3,304-3,410	Aug.	25
Elm Creek West SE NE 24-8-18W	Jones, Shelburne & Farmer, Inc.	Arbuckle	3,422-3,427	Feb.	46
	No. 1 Thomas (Now part of	of the Elm Creel			
Fehnel NE SW 16-10-19W	Champlin Refg. Co. No. 1 Fehnel	LansK.C.	3,480-3,494	July	45
Hillside SW SW 12-8-20W	Deep Rock Oil Co. No.1 Gosselin	Shawnee	3,206-3,214	Jan.	55
Laura Southeast NW SE 30-10-20W	B & R Drlg. Co. No. 1 Schneider "B"	Arbuckle	3,667-3,672	Aug.	178
Lynd Southwest SW SE 5-10-19W	L.B. Stableford No. 1 Mabel Sutor	Arbuckle	3,759-3,763	May	80
McMullen NE SW 33-8-17W	Jones, Shelburne & Farmer, Inc. No. 1 McMullen	Arbuckle	3,454-3,459	Sept.	365
Medicine Creek NW SE 18-8-16W	Herndon Drlg. Co. No. 1 Chesney	LansK.C.	3,050-3,067	June	62
Mt. Ayr NE SE 13-10-18W	Republic Nat. Gas Co. No. 1 Miller	LansK.C.	3,554-3,566	July	11
Zurich Southwest SW SE 34-10-19W	Mallonee Drlg. Co. No. 1 Aksamit	LansK.C.	3,385-3,394	Nov.	37
Rush County					
Big Timber NW SW 5-16-18W	John Lindas Oil, Inc. No. 1 Herklotz	Arbuckle	3,6131/2-3,6171/2	June	D & A
Stegman SE NE 11-16-17W	Northern Ord., Inc. No.1 Stegman	LansK.C.	3,376-3,384	Dec.	D & A
Timken SE NW 28-18-17W	E. H. Adair Oil Co. No. 1 Peterson	Arbuckle	3,729-3,751	June	259
Russell County					
Fay NE SW 2-12-15W '	D. R. Lauck Oil Co., Inc. No. 1 Shaffer	Arbuckle	3,238-3,250	Oct.	141
Saline County					
Gypsum Creek Nort NE NW 33-16-1W	th E.K. Carey Drlg. Co., Inc. No.1 Stein	Mississippian	2,594-2,614	June	303
Holm North NE SW 20-16-3W	Natl. Assoc. Petro. Co. No. 1 Nelson	Viola	3,427-3,437	May	44
Holm Southeast NW SE 32-16-3W	Bay Petro. Corp. No. 1 Holt	Viola	3,388-3,398	Jan.	17
Salemsborg SW SW 5-16-3W	Phillips & Sander- son No. 1 Johnson	Viola	3,381-3,435	Nov.	120
					•
Sedgwick County				_	
Crestview NW SW 1-27-1E	E. B. Shawver No. 1 Holmes Est.	"Burgess"	2,982-2,985	Jan.	25
Eastborough North (revived) N½ SW 4-27-2E	W. L. Hartman No.1 Rolland (SE NE 8-27-2E)*	Arbuckle	3,376-3,401	July	25



County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial production per day, bbls.
Gehring-Rick SW NE 16-28-2E	John P. Gaty No. 1 Rick (old well worked	Mississippian	2,950 (top)	June	15
Prairie Creek NE NW 25-25-2E	John P. Gaty No. 1 Bodecker "A"	Mississippian	2,812-2,818	Мау	26
Seward County					
Hawks SE NW 18-35-31W	J. M. Huber Corp. No. 1 Lofland-Hawks (old well worked over)	Morrowan	5,927 (top)	July (1951)	3,549,000 cu. ft. gas
Kismet South SE NW 26-33-31W	Flynn Oil Co. No. 1 Jury	Mississippian	5,770-5,860	May	25
Liberal-White SW SW 35-34-32W	Northern Ord., Inc. No. 1 White	Morrowan	5,906-5,910	Mar.	480,000 cu. ft. gas
Sheridan County					
George NW NE 17-9-26W	Graham-Messman- Rinehart Oil Co. No. 1 George Mills	LansK.C.	4,023-4,034	May	447
Moss SW NE 2-8-30W	Moss-Mountfield- Anderson No. 1 Anderson	LansK.C.	4,033 1/2 - 4,037 1/2	Dec.	D & A
Stafford County					
Brunselmeyer NE NE 2-22-13W	Anschutz Drlg. Co. No. 1 Brunselmeyer	Arbuckle	3,652 (top)	Sept.	467
Crissman NE SW 16-23-14W	Westgate-Greenland Oil Co. No. 1 Crissman	LansK.C.	3,664-3,672	July	202
Crissman North NE NE 9-23-14W	Westgate-Greenland Oil Co. No. 1 Batchman	Lans:-K.C.	3,669-3,677	Dec.	282
Curtis West NW NW 12-22-14W	Westgate-Greenland Oil Co. No. 1 Williams "A"	Arbuckle	3,744-3,796	Feb.	330
Farmington West SE NE 6-25-15W	Cities Service Oil Co. No. 1 Westgate	"Penn. sand"	4,164-4,206	June	4,190,000 cu. ft. gas
Grow West SW SW 16-21-13W	Western Rig Co., Inc. No. 2 Grow (Now part of	Arbuckle the Hazel West	3,677-3,680 t field)	May	199
Happy Valley SW NE 15-23-13W	Petroleum, Inc. No. 1 Ward	Arbuckle	3,810-3,819	May	36
Helene SW SE 16-22-12W	Heathman & Co. No. 1 Spangenberg	Arbuckle	3,685-3, 695	Oct.	223
Hickman South SW SE 34-21-14W	Petroleum, Inc. No. 1 Schartz "B"	LansK.C.	3,567-3,575	Oct.	45
Hill NW NW 11-23-12W	Alpine Oil & Gas Corp. No. 1 Hill	LansK.C.	3,447-3,454 3,456-3,460	Dec.	4,675,000 cu. ft . gas
Hudson NE SW 33-22-12W	Birmingham-Bartlett Drlg. Co. No. 1 Dohrman	LansK.C.	3,495-3,500	Mar.	334
Koelsch SW SW 24-24-14W	Helmerich & Payne No. 1 Koelsch	LansK.C.	3,750-3,758	Oct.	2.583
Koelsch Southeast SE SW 25-24-14W	Hilton Drlg. Co. No. 1 Koelsch	Arbuckle	4,187-4,191	Nov.	3,000
Lincoln Northwest NE NW 29-21-14W	Westgate-Greenland Oil Co. No. 1 Weirauch	Arbuckle	3,778-3,785	Oct.	25
Mt. View NE SE 29-22-13W	Petroleum, Inc. No. 1 Walls	LansK.C.	3.641-3,649	July	505
North Star SE NW 27-24-12W	Coop. Ref. Assn. No. 1 Byer' "B"	Viola	3,915-3,931	May	341
Oscar West NW NE 22-22-14W	Imperial Drig. Co. No. 1 Prichard	LansK.C.	3.593-3,601	May	1,863
Pleasant Grove NE SW 26-22-12W	Shelley-Miller Drlg. Co. No. 1 Spangenberg	LansK.C.	3,462-3,470	July	253

Rose Valley SE SW 36-25-13W	M. B. Armer No. 1 Walter	LansK.C.	3,824-3,830	June	81
St. John North NE SE 20-23-13W	Derby Oil Co. No. 1 Schulz	LansK.C.	3,603-3,607	Nov.	505
St. John Northwest NE NW 20-23-13W	Anschutz Drlg. Co., Inc. No. 1 Schulz	LansK.C.	3,644-3,650	J une	144
Strobel NW SW 9-22-14W	Petroleum, Inc. No. 1 Strobel "C"	Arbuckle	3.864-3,872	July	94
Strobel Northwest NE NW 8-22-14W	Petroleum, Inc. No. 1 Strobel "B"	Simpson	3,852-3,854	July	100
Syms Southeast NW NW 27-21-12W	Adair Oil Co. No. 1 Shumway	Arbuckle	3,565-3,570	Oct.	2,120
Taylor NE NW 15-21-14W	Stanolind Oil & Gas Co. No. 1 Taylor	Simpson	3,688-3,692	Jan.	104
Sumner County					
Caldwell Northwest SE SE 8-35-3W	Mid-Continent Petro. Corp. No. 1 Seltzer	Simpson	4,835-4,855	Sept.	356
Hunnewell (revived) NW NE 18-35-1E	Herndon Drlg. Co. No. 1 Kerr	Mississippian	3,602-3,618	Oct.	18
Slate Creek NW SE 9-33-2E	(Location of original disco W. J. Coppinger No. 1 Brann-Martin	LansK.C.	2,804-2,816	Apr.	25
Thomas County					
Mingo NE SW 19-9-32W	Trans-Tex Drlg. Co. No. 1 Keller	Mississippian	4.680-4.684	Dec.	50
Trego County					
Ellis South NE NE 12-13-21W	Carl Todd Drlg. Co. No. 1 Newcomer	Arbuckle	3,822-3,837	Oct.	152
Groff SW SW 26-14-21W	Jones, Shelburne & Farmer, Inc. No. 1 Groff	Penn. basal conglomerate	3,822-3,832	Nov.	78
Nieden SE SW 16-12-23W	Wick's Petro. Co. No. 1 Nieden	Mississippian	3,850-3,857	Mar.	42
Ridgeway SW NW 26-12-21W	The Texas Co. No. 1 Schoenthaler	Arbuckle	3,896-3,909	Feb.	268
Sunny Slope SE SE 21-14-21W	Deep Rock Oll Corp. No. 1 Zeman	Marmaton	3,848-3,862	Jan.	248
Woodson County					
Steele SW NW 20-23-15E	Moreland & Harris No. 1 Steele	Mississippian	1,525-1,542	May	15
*Location of original	al discovery well.				

For the first time in this series of bulletins, a table of new oil and/or gas zones discovered in old producing fields during 1952 is included. Data similar to that presented for new pool discoveries are given in Table 7.

Abandoned pools.—Only one oil pool was officially abandoned during 1952 by the Kansas Nomenclature Committee. Thirty-two oil or gas pools were combined with other pools after it was determined that the pools had common reservoirs. As has been the custom of the Survey, the outlines of the abandoned pools are omitted from the maps in this bulletin. Total production from

Geological Survey of Kansas

TABLE 7.—New oil or gas zones in old producing fields

	TABLE 1 IVEW OIL OF GUS	zones in out	producting ju	euus	
County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial produc- tion per day, bbls
Barton County					
Alefs SW SW 14-19-14W	Ben F. Brack Oil Co., Inc. No. 1 Alefs	LansK.C.	3,334-3,341	June	30
Bernard NE SW 10-19-11W	C. E. Ash No. 6 J. H. Musenberg "D"	Topeka (Shawnee)	2,866-2,872	Feb.	1,437
Great Bend Airport NE SW 26-19-14W	Honaker Drlg. Co., Inc. No. 3 Essmiller	Arbuckle	3,473-3,485	May	3,000
Hammer NW SW 36-19-12W	W. L. Hartman No. 2 Flora Birzer	LansK.C.	3,088 (top)	Jan.	50
Hawkins NE NW 3-19-13W	Rocket Drlg. Co. No. 1 Hawkins (old well pl	LansK.C. ugged back)	3,158 (top)	Nov.	291
Kraft-Prusa NW NW 32-16-11W	Natl. Coop. Ref. Assn. No. 5 Joseph	Douglas	2,997-3,009	June	211
Werner-Robl SW NE 30-19-11W	W. L. Hartman No. 2 Mary Roth	Arbuckle	3,364 (top)	Jan.	15
Cowley County					
Gibson South SE NW 32-34-3E	The Texas Co. No. 2 Bryant "A"	Mississippian	3,400-3,412	June	39
Ellis County					
Burnett SE NW 12-11-18W	Skelly Oil Co. No. 3 Kempe "C" (old well	Shawnee worked over)	2,967-2,973	Feb.	83
Emmeram Townsite SW NE 6-13-16W		LansK.C.	3,291-3,296	Oct.	600
Giinther SW NE 17-11-19W	Natl. Coop. Ref. Assn. No. 2 Giinther	LansK.C.	3,439-3,448	June	33
Herl NE SE 28-14-17W	Lion Oil Co. No. 4 Herl	Penn. basal conglomerate	3,453-3,461	Feb.	162
Jensen NW NW 25-12-18W	Heathman & Co. No. 1 Staab	LansK.C.	3,531 -3,54 1	Mar.	315
Mendota NW SE 6-11-20W	Magnolia Petro. Co. No.1 Richards "B"	LansK.C.	3,530-3,540	May	10
Ellsworth County					
Heiken SW SE 25-17-10W	Skelly Oil Co. No. 1 Stumps	LansK.C.	2,974-2,982	Mar.	50
Graham County					
Noah SW NE 27-10-21W	Phillips Petro. Co. No. 1 Noah	LansK.C.	3,651-3,658	Sept.	34
Smith-Denning Wes NE NW 6-10-21W	t D. G. Hansen No. 2 Brown	LansK.C.	3,581 -3,6 11	Jan.	187
Kingman County					
Pat Creek SW SW 20-28-9W	Nebraska-Wyoming Oil Co. No. 2 Darlington	Simpson	4,475-4,493	July	65
Meade County					
Novinger NE SW 23-33-30W	Lansekan Co., Inc. No. 7 Langhoffer	Morrowan	5,765-5,786	Dec.	150
Osborne County					
Ruggles SE NW 23-10-15W	Anderson-Prichard Oil Corp. No. 6 Ruggles "A"	Toronto (Shawnee)	2,986-2,989	June	51
Ruggles SW SW 14-10-15W	Sohio Petro. Co. No. 1 Isenberg	LansK.C.	3,024-3,026	Mar.	41



Daniel Carret					
Pawnee County Benson Southeast	Cities Service Oil Co.	LansK.C.	3,709-3,729	Apr.	1928
NE NW 32-23-15W Evers	No. 2 Becker "B" Iron Drig. Co.	Arbuckle	3,906-3,917	Feb.	140
SW SW 36-21-16W	No. 1 Prosser "B"	•			
Evers NE NE 2-22-16W	Iron Drlg. Co. No. 1 Shady "A"	Simpson	3,861-3,865	Feb.	39
Pratt County					
Barnes SE SW 25-27-12W	Hamilton Bros. No. 4 Barnes "A"	LansK.C.	3,620-3,632	Nov.	D & A
Chance NE SW 33-26-13W	Rine Drlg. Co. No. 1 Jo (old well worked o	Viola	4,250-4,260	Jan.	8
Chance East NW SW 35-26-13W	R. W. Rine Drlg. Co. No. 1 Briggeman "B"	Mississippian	4,138 (top)	Sept.	198
Reno County					
Haven NW SW 10-25-4W	Midstates Oll Corp. No. 1. Schlickou "A"	Viola	3,939-3,947	Jan.	SWDW
Rice County					
Ixl South NW NE 9-19-10W	Skiles Oil Corp. No. 2 Boldt (This pool not	Arbuckle w part of the I	3,334-3,340 xl pool)	Mar.	427
Rooks County					
Gra-Rook SW SW 17-9-20W	Anschutz Drlg. Co. No. 1 Pfannensteil	Penn. basal conglomerate	3,810-3,825	Aug.	40
Jelinek SE NE 14-9-19W	Harry Gore No. 9 Ruder	Dodge (Shawnee)	3,220-3,224	June	97
McHale SE SE 7-9-18W	Grant Oil Co. No. 1 Cabbage	LansK.C.	3, 43 6-3,460	Apr.	5
Nettie CSL SW 33-9-17W	Palmer Oil Corp. No. 1 Schrandt (old well plu	Simpson	3,499-3,502	Mar.	25
Palco Southeast NW NE 10-10-20W	Barnett Oil Co. No. 1 Sparks "A"	LansK.C.	3,728-3,732	June	25
Slate NW SW 31-6-19W	Morris Sitrin	LansK.C. vorked over)	3.291 (top)	July	105
Zurich NW SE 35-10-19W	C-G Drlg. Co. No. 1 Casey	Shawnee (Topeka)	3,087-3,097	Apr.	25
Staffand Campton					
Stafford County Crissman	Westgate-Greenland Oil	Arbuckle	4.006-4.012	Aug.	150
SE NW 16-23-14W Crissman	Co. No. 1 Beaver Westgate-Greenland Oil	Simpson	3,984-4,000	Aug.	347
NE SW 16-23-14W Curtis West	Co. No. 2. Crissman Westgate-Greenland Oil	LansK.C.	3,570-3,582	May	355
NE NE 11-22-14W Eden Valley	Co. No. 3 Williams Cities Service Oil Co.	LansK.C.	3,496-3,508	Sept.	2.519
NW NW 29-21-13W Gates	No. 5 Essmiller "B" Lion Oil Co.	Viola	3,635-3,651	Feb.	60
SW SW 27-21-13W	No. 4 Gates (old well plugge	ed back)			
Grow SW SE 16-21-13W	Westgate-Greenland Oil Co. No. 6 Grow	LansK.C.	3,463-3,476	June	186
Leo SW SE 7-21-13W	Petroleum, Inc. No. 1 Witt "C"	LansK.C.	3,475-3,504	Jan.	972
Moon NW NE 4-22-13W	Derby Drlg. Co. No. 1 Gates	Penn. basal conglomerate	3,643-3,677	Jan.	659
North Star SW NE 27-14-12W	Gulf Oil Corp. No. 1 Jenkins	Simpson	4.063-4.072	Aug.	662
Oscar SE NW 23-22-14W	S. A. Berwick No. 1 George Hoffmaster	Viola	3,777-3,785	Jan.	7
Richland NW SE 22-24-14W	Alpine Oil & Royalty Co. No. 1 White	Mississipplan	4.032-4.052	Nov.	143



TABLE 7.—New oil and gas zones in old producing fields, concluded

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial produc- tion per day, bbls
Strobel SW NW 9-22-14W	Petroleum, Inc. No. 1 Strobel "A"	LansK.C.	3,659-3,663	Nov.	427
Sumner County					
Anson NW NW 36-30-2W	Anderson-Prichard Oil Corp. No. 1 Riner	LansK.C.	3,264-3,276	June	50
Guelph NW NE 6-35-1E	Herndon Drlg. Co. No. 7 Gurley	Arbuckle	3,969 (top)	Feb.	120
Trego County					
Ridgeway SE NW 26-12-21W	The Texas Co. No. 3 Schoenthaler	Lans. K.C.	3,693-3,699	Apr.	361

abandoned areas is listed at the bottom of each county summary (Tables 66 and 67).

Wells drilled during 1952.—There were 5,136 wells recorded as being drilled in the State during 1952. It is certain that numerous shallow wells in several eastern Kansas counties were not recorded and thus are not included in this tabulation. Of the tests reported 2,396 were oil wells, 305 were gas wells, 2,045 were dry and abandoned holes, and 387 were salt-water disposal or were input wells drilled in connection with secondary recovery operations. New pool discoveries and pool revivals accounted for 175 of the oil and gas wells; 557 of the dry holes were dry wildcat tests. No estimate as to the number of wells drilled but not reported has been attempted.

Nine Kansas counties had more than 200 wells recorded drilled in 1952. As in previous years, Barton County led all others with 534. Following in order were Butler County (486), Russell County (355), Ellis County (318), Stafford County (310), Cowley County (300), Rooks County (279), Rice County (259), and Greenwood County (242). These nine counties accounted for 60.4 percent of the total number of wells drilled in the State during 1952.

Test wells drilled within 1½ miles of the outside boundaries of producing pools are called extension wells and are not shown on county maps in this bulletin. Test wells resulting in dry holes drilled outside this 1½ mile limit are classed as "wildcat wells" and are shown by a symbol on the maps of western Kansas counties. Any county having four or more such dry wildcat wells

drilled in 1952 has a table listing data on the wells included under the write-up of that county.

The various tops of the formations listed in the tables have been determined through the use of electric logs if they were available. An asterisk in front of the well name in the tables indicates that no electric log is available for that well. In such cases various sources of information have been used to determine the tops of the formations. These include the Kansas Sample Log Service, Independent Oil and Gas Service, drillers logs, and other sources within the Survey.

As pool boundaries are rarely exact, the classification of wildcat wells becomes somewhat arbitrary. Hence, the total number of wildcat wells the reader may obtain from different sources is likely to vary somewhat.

For the purposes of the tables, wells counted as 1952 completions are those which have been finished within the year and which have been drilled to completion in one operation. Old wells worked over, although they came in as producers, are not counted as 1952 completions. The 1952 wells abandoned as dry and then converted to salt-water disposal use have sometimes been classed as dry holes, unless it was plain that they were drilled expressly for salt-water disposal.

Straggler Wells.—After the statistical records have been finished for each year, late reports of completed wells continue to come in. These are referred to as stragglers, reported in the bulletin for the following year, but are credited to the year in which the wells were completed. There are 206 stragglers for 1951, which are shown by counties in Table 8.

Well elevations.—Elevations of many wildcat tests in the State are given in tables or in the text. Publication of elevations of many wildcat wells was made possible through the cooperation of Laughlin-Simmons and Company, Tulsa, Oklahoma.

Eastern Kansas counties.—Counties lying wholly east of the sixth principal meridian are regarded as being in eastern Kansas, an area that has been treated separately in some reports (Jewett, 1949) and is treated somewhat differently from western Kansas in this report. Plate 1 is a map of eastern Kansas counties. Locations of areas that produced oil in 1952, rather than recognized oil fields, are shown. Locations of secondary recovery projects are shown on the same map.



The most significant new development in eastern Kansas during 1952 was the discovery of 10 new "Bartlesville," 3 Mississippian, and 1 "Layton" horizons of production in Cowley County. One new pre-Pennsylvanian field was opened west of the Nemaha anticline, the Murdock, in Butler County. New production east of the anticline in Butler County includes two "Bartlesville sand" pools, the Bare and Brickley Southwest.

TARLE 8.—Wells completed in 1951 but reported in 1952

County	Oil	Ga s	Dry	Salt-water disposal or input
Allen		••	•	
Barber	1	•	••••	••••
Barton	24	•	5	••••
Butler	11		2	5
Coffey			1	••••
Cowley	2	••••	3	••••
Elk	••••	•	••••	3
Ellis	12		3	1
Ellsworth	3		••••	1
Finney	••	2	••••	1
Ford	1	-	••••	
Graham	4	••••	2	••••
Grant	-	4	=	
Greenwood	<u>.</u>	···	2	12
Harvey	2	••••	_	
Haskell		4		
Hodgeman	1	_		
Kearny	_	 1		
Kingman	 3	_	••••	••••
McPherson	2	••••	•	**
Marion	3	••••	 1	••••
	=	<u>.</u>	_	••••
Meade	ï	1	 3	••••
Montgomery	1	 2	3	•
Morton	••••	2		••••
Neosho	••••	••••	1	
Norton	••••		1	••••
Osage		••••	1	
Pawnee	1	••••	2	
Phillips	8	••••	1	••••
Pratt	2	•	1	••••
Rice	7	••••	2	
Rooks	4	•	2	•
Russell	9	••••	2	• • • • • • • • • • • • • • • • • • • •
Saline	3	• • • •	2	••••
Seward	••••	2	2	****
Sheridan	••••	•	1	• • • •
Stafford	11	•		• • • • •
Stanton		1		••••
Stevens	••••	4		****
Sumner	2	••••	1	••••
Trego	1		2	•
.,				
Total	119	21	43	23

The other major development in eastern Kansas was the intensification of the search for areas suitable for secondary recovery projects. A very significant amount of oil is produced in eastern Kansas by secondary recovery methods, principally water-flooding. During 1952, the total oil produced by secondary recovery methods, including an estimate of those projects not specifically reporting, was more than 10 million barrels. Data on secondary recovery operations are listed in Table 1.

Acknowledgments.—T. A. Morgan, J. P. Roberts, D. C. Lilley, and H. A. Beverlin of the Conservation Division of the State Corporation Commission have for a long time cooperated to the fullest extent with the Geological Survey. Without their cooperation this report would not be possible.

It would have been impossible to assign much of the oil production in eastern Kansas to definite areas or even to counties without the cooperation of the several persons and organizations who are sending monthly oil purchase reports to the Survey and who have helped in other ways. Thanks are expressed to: A. J. Becker; Marvin E. Boyer; Cities Service Oil Company; Continental Oil Company; Cooperative Refinery Association; The El Dorado Refining Company; Virgil Gamble; Joplin Refining Company; Kanotex Refining Company; Kansas City Testing Laboratory; Joe Maclaskey; W. L. Maclaskey; M. F. A. Oil Company; Sinclair Oil and Refining Company; Sinclair Prairie Oil Company; Skelly Oil Company; Skiles Oil Corporation; Standard Oil Purchasing Company; Stekoll Petroleum Company; and White Eagle Purchasing Company, Inc.

Thanks are given to the various members of the Kansas Nomenclature Committee, Kansas-Oklahoma Division of the Mid-Continent Oil and Gas Association, for giving us their data on the new oil and gas pools discovered during the year and for their area descriptions of existing pools.

Thanks are extended to numerous companies and individuals who have contributed information on secondary recovery production and drilling activities connected with secondary recovery for the year. Numerous people and companies have contributed also to gas production figures for the year.

Many people engaged in various phases of the petroleum industry in Kansas have been generous in giving us data that have been used in this report. Here should be listed Gene Brinegar,



Frank Brooks, B. F. Brundred, Virgil Cole, Mack C. Colt, John A. Edwards, Lee Garrett, Thomas W. Lee, William McHugh, J. H. Page, Carl L. Pate, Harold O. Smedley, W. L. Stryker, Charles W. Studt, Joe Svoboda, Albert Sweeney of the Interstate Oil Compact Commission, Harvel White, and Earl A. Whitworth.

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The Survey is pleased to acknowledge assistance from Vance E. Rowe and his Petroleum Statistical Guide, Inc., in connection with his supplying a large part of the crude oil production figures.

SECONDARY RECOVERY

Repressuring of oil-bearing rocks by injection of water, air, or gas or a combination of these agents, has become a principal method of oil production in Kansas since official sanction and status were given the practice through the passage of a law in Kansas in 1935. Grandone (1944) reported that after passage of the law, the first legal project was organized by the York State Oil Company in the Seeley pool of northern Greenwood County in May of 1935. Pointing up the significance of the secondary recovery activities in the State, especially in the Cherokee basin and the southern part of the Forest City basin, is the fact that production has risen from an estimated 5 million barrels in 1942 to more than 10 million barrels this year, accounting for more than 9 percent of the State's total production this year. The reported production for 1952 totaled 9,196,510 barrels, and the 10 million barrel figure is reached by adding an estimate of those operations not reporting specifically.

Table 1 lists all the secondary recovery operations in the State for which permits to flood have been issued by the Conservation Division of the Kansas Corporation Commission. Of the 170 projects listed, 143 reported a total of 5,902 wells producing oil by secondary recovery methods and 4,507 wells which were utilized as input wells for injection of a repressuring medium. Of the



Secondary Number of Total oil recovery oil Percent projects. production production of total 1952 County 1952. bbls. 1952, bbls. production Allen 11 609,577 280,872 46.1 501,842 9 576,882 86.9 Anderson 8,164,208 Butler 18 1,708,523 20.1 48 6,834,217 4,528,863 66.2 Greenwood 9 591,153 527,059 89.1 Miami 543,736 80.2 16 677,827 Montgomery 469,624 72.8 9 645,001 Neosho

TABLE 9.—Data on seven counties producing oil by secondary recovery in 1952

total 162 are located east of the sixth principal meridian, which runs north and south through Wichita.

Greenwood County as in past years led all other counties in the number of projects operating as well as in production attributable to secondary recovery (Table 9). During 1952, 48 projects in Greenwood County accounted for more than 4.5 million barrels of oil, while 18 projects in Butler County, the second largest producer of oil by secondary recovery methods, accounted for more than 1.7 million barrels. These two counties accounted for more than half the oil produced through repressuring projects in Kansas.

The following zones listed in the order of their importance provided the bulk of the oil produced through secondary recovery methods: "Bartlesville sand," "Peru sand," and "Wayside sand." Salt water was used for repressuring in most of the Kansas projects. Of the many subsurface zones from which salt water is obtained for repressuring, the three main ones are sandstones of the Douglas group, Arbuckle dolomite, and produced water from the "Bartlesville sand." Principal sources of fresh water are shallow ground-water reservoirs, lakes, streams, and municipal water supplies. Where combined fresh and salt water is used the brine is obtained commonly from the local oil-producing formation. Treatment of salt water includes aeration, addition of chemicals, settling, and filtration singly or in various combinations. Fresh water requires treatment more commonly than brines. Such treatment includes adding lime, chlorine, alum, and settling and filtering or some combination of these. Most users of combined fresh and salt water use treating methods.

In general ground water is the most satisfactory type for water flooding, because the quality of river water varies greatly



TABLE 10.—Estimated	water-flood	oil	reserves i	in	eastern	Kansas	counties*
---------------------	-------------	-----	------------	----	---------	--------	-----------

County	Million barrels of oil	County	Million barrels of o	
Allen	9	Greenwood	93	
Anderson	7	Linn	2	
Bourbon	1	Lyon	4	
Butler	57	Miami	19	
Chautaugua	2	Montgomery	14	
Cowley	14	Neosho	8	
Crawford	1	Wilson	1	
Elk	2	Woodson	3	
Franklin	13			

^{*} Estimates made by A. E. Sweeney, Jr., Interstate Oil Compact Commission.

with the seasons; hence the treatment necessary varies from time to time. Ground water usually remains uniform in chemical composition for long periods; therefore any treatment required before injection need not be changed.

Table 10 shows estimated reserves of oil in eastern Kansas counties believed to be recoverable by water flooding. The table is based primarily on Sweeney's estimates (1949). Dahlgren (1951) gave an estimate of total recoverable reserves by secondary recovery methods as of January 1, 1950, as more than 238 million barrels. At the present rate of production, this would cover more than a 20-year period.

NATURAL GAS

General.—The transmission of natural gas across state lines to market, and the approval of new cross-country gas pipe lines falls under the jurisdiction of the Interstate Commerce Commission and the Federal Power Commission respectively. Approval of transmission of gas and construction of pipe lines for interstate traffic is based both on a greatest-good-to-the-greatest-number consideration and on investment values. On these two counts, Kansas, ranking fifth among the gas-producing states, with large reserves and small population, has a minor voice in the use determination of the gas. While Kansas producers desire to export surplus gas for income which returns to the State, Kansas consumers, both domestic and industrial, complain of the exportation of the State's natural resource on the grounds of alleged loss of income and depletion of reserves. Table 11 and Figure 3 indicate that a significant portion of our gas production is being exported annually.

TABLE 11.—Statistical summary of Kansas natural gas production and use, 1949-1952

Percents

	(Millions 1 94 9	of M cu. 1950	ft. at 1951	16.4 psia.) 1952	Percentage change 1951-1952
Natural gas produced in Kansas	263.2	323.3	363.7	365.1	+ 0.4
Imported from outside the State	118.8	53.2	42.7	60.0	+40.6
Total to account for Gas consumed in Kansas during yea	382.0	376.5	406.4	425.1	+ 4.6
Domestic	64.9	75.2	85.0	91.0	+ 7.1
Industrial, misc., and losses	106.0	112.8	117.0	124.1	+ 6.1
Carbon black	14.0	14.1	15.5	13.9	—10.3
Total Kansas consumption	184.9	202.1	217.5	229.0	+ 5.3
(Consumption as pct. of prod.)	(70.3)	(62.7)	(59.8)	(62.7)	+ 4.9
Exported from state	197.1	175.4	188.9	196.1	+ 3.8
Total	382.0	377.5	406.4	425.1	$+$ $\overline{4.6}$

The answer seems to be the development of more industry and consuming population in Kansas. Either processing the gas into chemicals or using the resource as industrial fuel or both will guarantee that an optimum part of the potential value of our natural gas will be realized in Kansas.

Production and use.—The amounts of natural gas produced from the principal Kansas fields during 1952 are shown by county in Table 67. Production in the "eastern Kansas" fields, which had their peak production about 50 years ago, was less than 1 per cent, while production from the Hugoton Gas Area in southwestern Kansas was almost 92 percent of the State's total for 1952.

Table 11, showing some statistics on Kansas natural gas from 1949 through 1952, reveals some important trends. The production of natural gas from 1949 through 1952 showed annual increases. During 1952, importation from outside the State increased about 40 per cent; however, exportation of natural gas increased only a little less than 4 percent. Total Kansas domestic and industrial consumption, omitting carbon black, is at an all-time high. The use of natural gas in the carbon black industry in Kansas has recently been supplemented by the use of natural gas liquids and probably partially explains the annual decrease in the use of natural gas in that industry. About 45 percent of our total gas production, that produced and imported, was exported during 1952. This larger percentage of exportation of natural gas is believed to be a smaller proportion than most Kansans realize.

New developments.—Ten new gas pools were discovered in Kansas during 1952. The new discoveries are in Barton, Clark,

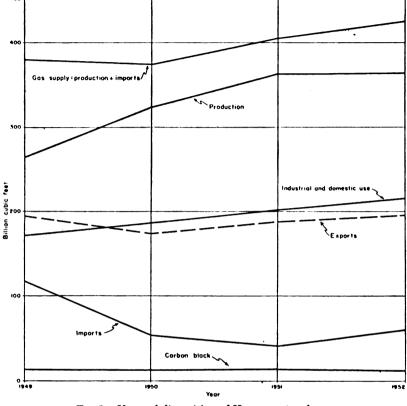


Fig. 3.—Use and disposition of Kansas natural gas.

Meade, Pratt, Seward, and Stafford Counties. The new production in Clark, Meade, and Seward Counties is thought to be from the Atokan or Morrowan Series. All other new gas production is from younger beds (Table 6).

Since the extension of the Greenwood pool in Morton County with two additional gas wells and one new producing zone during 1952, much activity has taken place in the vicinity of the pool, and from all indications a major field is being developed just west of the Hugoton Gas Area.

On July 30, 1952, the McKinney gas field in Meade County was assigned a basic proration order by the Kansas Corporation Commission. An investigation of the feasibility of continuing proration for the Otis-Albert field (Rush and Barton

Counties) resulted in continuance of the basic order concerning the field.

The Hugoton Gas Area.—The Hugoton Gas Area, with its extensions across the Oklahoma "strip" and well into the Texas panhandle, is regarded as containing one of the world's largest known gas reserves. Production from the Kansas part of the field, more than 50 percent of the total, is shown by years in Table 12. It is interesting to note that production from the field in Kansas has increased more than 8 fold in the 11-year period from 1942 to 1952, and is at an all-time high at the present.

The producing area of the Hugoton Gas Area has been limited by the Kansas Nomenclature Committee to gas produced from formations in the Chase group of the Permian System. The lateral stratigraphic or structural features of the gas-producing area are not clearly marked, so that the outline of the producing area changes with each new well drilled on the borders. Plate 2 shows the approximate boundaries of the Hugoton Gas Area as outlined at the end of 1952 by wells having been reported with initial daily capacities of 1 million cubic feet or more. The porosity of the rocks of the Chase group seems to control productivity.

Wells with initial capacities of less than 1 million cubic feet per day after acidization may not be saved by the larger companies, those producing 5 to 15 million cubic feet per day are usual, and big wells produce more than 30 million cubic feet of gas per day. The average depth to the producing zone is about 2.500 feet.

A significant development is the discovery of commercial quantities of oil in the Lansing-Kansas City rocks on the Beyer farm in the SE¼ SE¼ NW¼ sec. 24, T. 26 S., R. 33 W., Finney County, about 12 miles south of Garden City, well within the geographic limits of the Hugoton Gas Area but not within the

TABLE 12.—Production from the Kansas part of the Hugoton Gas Area

Year	M cu. ft. gas (14.65 psia.)	Year	M cu. ft. gas (14.65 psia.)
1938	29,843,417	1946	119,637,983
1939	32,424,301	1947	157,663,036
1940	37,083,797	1948	185.872.594
1941	40.759,482	1949	247,868,876
1942	46,365,484	1950	320,545,480
1943	70,921,532	1951	371.002.475
1944	92.922.821	1952	375,081,748
1945	90,345,203		• •



Total

Gases Percent Methane 74.26 14.27 Nitrogen 5.81 Ethane 3.52 Propane 1.48 Butane Pentane plus 0.65 99.99

TABLE 13.—Average analysis of natural gas from Hugoton Gas Area (From Keplinger, Wanenmacher, and Burns, 1948)

stratigraphically defined limits of the field. Initial production assigned the new well was 191 barrels of oil per day. The successful completion of this well emphasizes the fact that older dry holes located within the main Hugoton Gas Area which penetrated well beyond the productive zones of the gas area do not preclude the presence of important quantities of oil or gas below the defined Hugoton Gas Area.

The Hugoton Gas Area is under rigid proration by the Kansas Corporation Commission, Division of Conservation. Commonly only one well may be drilled in each 640 acres, and allowable production for wells or group of wells is established on a monthly basis in a manner designed to conserve the gas supply. The spacing accounts for the fact that the surface evidences of a huge gas reservoir are few.

Gas from the Hugoton Gas Area is of rather high quality as indicated by Table 13. It yields about 0.5 gallon of natural gasoline condensate per thousand cubic feet, and has a heating value of roughly 1,000 B.t.u. per cubic foot. The majority of the State's natural gasoline plants are within the borders of the Hugoton Gas Area. The State's three carbon black plants are also located within the geographical limits of the Hugoton Gas Area.

The Defenders and Traders Gas Company's successful gas well in 1922, in sec. 3, T. 35 S., R. 34 W., Seward County, has been accredited as the discovery well of the Hugoton Gas Area proper. The well opened the Liberal gas field, which has since been joined to the Hugoton Gas Area. Rapid development of the huge gas reservoir in southwestern Kansas came in the early 1940's. The number of producing gas wells in the field passed the 2,000 mark and the area reached 2 million acres by the end of 1949. Gas wells drilled in the Hugoton Gas Area by counties are shown in Table 14. At the close of 1952, there were 2,874 producing gas

County During 1952 Total to date Finney 269 554 Grant 29 Hamilton 8 21 Haskell 30 302 Kearny 75 452 27 Morton 230 10 Seward 224 7 Stanton 184 Stevens 17 709 Total 2.945

TABLE 14.—Gas wells drilled in Hugoton Gas Area by counties

wells and the area of the Kansas part of the Hugoton Gas Area was about 2,433,560 acres. It includes two entire counties (Stevens and Grant) and parts of seven others (Finney, Hamilton, Haskell, Kearny, Morton, Seward, and Stanton). Judging by the past year's developments, widening of the field has no particular pattern.

Reserves of the Kansas part of the Hugoton Gas Area are discussed under reserves of natural gas and natural gas liquids.

Natural gasoline and liquefied petroleum gas production.—With the addition of the Hugoton Production Company's natural gasoline plant at Ulysses, the total number of operating plants in Kansas was 18 at the end of 1952. In 1951 this plant produced 76,554 barrels of natural gasoline, 70,986 barrels of LPG, 31,875 barrels of propane, and 3,860 barrels of butane for a total of 183,275 barrels in 1951. A corrected daily average of natural gasoline and LPG processed during 1951, is 11,933 barrels.

The daily average for 1952, as supplied by the Conservation Division of the Kansas Corporation Commission, was 12,781 barrels. A break-down of type of production and producing plant is given in Table 15. The State's output during 1952, broken down into the four main products, together with estimated values at the plants is shown in Table 16. Production of Kansas plants for the last 12 years is shown in Table 17.

The growth of LPG has been the greatest in proportion of any part of the petroleum industry. For many years, LPG was produced mainly as a by-product of natural gasoline production. Now the total production of liquefied petroleum gases for the country as a whole exceeds the output of the regular natural gasoline grades and natural gasoline mixtures. In 1952, the sales of LPG in the United States were estimated (Benz and Tucker,

1953, p. 58) at 4,110 million gallons exclusive of any product used in the manufacture of aviation and motor gasoline or synthetic rubber. This represents a gain of about 6.7 percent. The amount of LPG used domestically, including internal combustion engine fuel purposes, rose 9.2 percent during 1952.

TABLE 15.—Natural gasoline and LPG processed in 1952* (From the Conservation Division, Kansas Corporation Commission)

	Natural gas	Butane	Propane	LPG	Total
Cities Service Oil Co. Arkansas City, Cowley Co. Burrton, Reno Co.	46,524 64,047		20,245	87,371 70,538	133,895 154,830
Wichita, Sedgwick Co.	469,645		151,444	161,472	782,561
Colorado Interstate Gas Co. Lakin, Kearny Co.	106,016				106,016
Deerfield Petroleum, Inc. Deerfield, Kearny Co.	136,399		22,967	23,097	182,463
Drillers Gas Co. Cheney, Sedgwick Co.	13,575			3,414	16,989
Flynn Oil Co. Otis, Rush Co.	46,897			5,363	52,260
Hugoton Production Co. Ulysses, Grant Co.	185,710	50,138	118,925	101,425	456,198
A. R. Jones Oil & Oper. Co. Pawnee Rock, Barton Co.	8,782	8,782 (Drip)			8,782
Kansas Power & Light Co. Medicine Lodge, Barber Co.	34,760				34,760
Magnolia Petroleum Co. Ulysses, Grant Co.	140,599	49,219	62,743		252,561
Northern Natural Gas Co. Holcomb, Finney Co. Sublette, Haskell Co.	49,652 472,543				49,652 472,543
Fanhandle Eastern Pipe Line Co. Liberal, Seward Co.	466,079	88,079	111,545		665,703
Skelly Oil Co. Cunningham, Kingman Co.	73,540	84,086			157,626
Stanolind Oil & Gas Co. Ulysses, Grant Co.	443,785	62,836	188,208	383,859	1,078,688
Sunray Oil Corporation Rainbow Bend, Cowley Co.	11,439			2,633	14,072
The Texas Company Atlanta, Cowley Co.	32,113			25,950	58,063
Totals 1952 daily average in barrels Corrected daily average in barrels in 1951	2,802,105	334,358	676,077	865,122	4,677,662 12,781 11,933

^{*} Figures in 42-gallon barrels.



Table 16.—Production and estimated value of natural gas liquids in Kansas, 1952*

	Barrels	Gallons	Unit price	Value
Natural gasoline	2,802,105		\$2.95	\$8,266,210
Propane	676,077			
Butane	334,358	42,438,270	0.05	2,121,914
LPG	865,122	36,335,124	0.045	1 635,081
Totals	4,677,662	196,461,804		\$12,023,205

Production figures supplied by Kansas Corporation Commission; average unit values at point of production have been obtained from sources considered to be reliable.

During 1952 the first use of LPG in conjunction with natural gas in the production of carbon black was reported. More than 118,747 barrels of LPG was reported used along with 13,966,108 thousand cubic feet of natural gas to produce about 89 million pounds of carbon black in Kansas during 1952.

Low-cost temporary storage was one of the larger problems facing the expanding LPG industry. This problem, created by the seasonal demand for the product, has been partially answered by the experiments that have been in progress over the past few years. These consist of injecting LPG into wholly or partially depleted salt-water, gas, or distillate sands. Recently, and especially in Kansas, emphasis has been placed on the creation of underground cavities by washing out salt beds.

Pipe lines.—Kansas ranks seventh among the states in mileage of petroleum industry pipe lines. At the end of 1952, Kansas is estimated to have had a total of more than 33,000 miles of pipe lines. This figure allows for those lines removed, reclaimed, or discontinued. A new petroleum industry map showing the major pipe lines of Kansas is now being prepared by the State Geological Survey and is expected to be available for distribution by late 1953.

TABLE 17.—Kansas production of natural gasoline and allied products, 1941-1952*

Year	Production M gals.	Year	Production M gals.
1941	85,691	1947	99,195
1942	81,828	1948	107,563
1943	85,206	1949	113,807
1944	69,834	1950	155,233
1945	72,637	1951	182,932
1946	82,591	1952	196,462

Figures from 1941 through 1948 from World Oil (1951, p. 154). Figures for 1949 through 1952 supplied by Kansas Corporation Commission. Note the 1951 production figure has been corrected from that published in Bulletin 97.



Reserves of natural gas and natural gas liquids.—During 1952 proved reserves of natural gas in Kansas (as estimated by the Reserves Committee of Am. Petroleum Institute and Am. Gas Assn.) increased 5.5 percent, while the natural gas reserves for the nation increased only 3.1 percent. There are 14.2 trillion cubic feet, or about 35 years' supply at the present rate of consumption. Hydrocarbon liquids contained in the proved reserves of gas are more than 168 million barrels, an increase of 5.4 percent. Estimate figures are given in Table 18.

Keplinger, Wanenmacher, and Burns (1948) estimated that 51.7 percent of the Hugoton Gas Area, as then defined, was in Kansas. Of the total reserves they estimated that 14,051 billion cubic feet were contained in the Kansas part of the field. No later estimates have been made.

Three important features of the reserve picture in Kansas at the end of 1952 are: (1) new discoveries and extensions of proved areas are being made about as rapidly as the producing areas are being depleted, (2) Kansas proved reserves of natural gas liquids are more than 50 percent of the quantity of gasoline contained in the proved reserves of crude oil in the State, and (3) Kansas showed a material increase in reserves of natural gas and natural gas liquids, while the total increase for the United States was the smallest since 1947.

The significance of Kansas reserves of natural gas liquids is commonly overshadowed by our thinking in terms only of the value of crude oil and natural gas. Natural gas liquids, consisting of natural gasoline, condensate, and LPG (mainly propane and butane), supplement our supplies of gasoline for motor vehicles and fuels for industry and domestic use.

 Reserve figures may be misleading unless properly interpreted. It must be kept in mind that the published petroleum reserve

Table 18.—Kansas proved reserves of natural gas and natural gas liquids, December 31, 1952 (American Petroleum Institute and American Gas Association, 1952)

	Reserves* as of 12-31-51	Exten- sions and re- visions 1952	New dis coveries 1952	Pro- -duction during 1952	Proved reserves 12-31-52	Nonas- sociated, associ- ated, and dissolved	Changes in re- serves during 1952	Per- centage change 1951-1952
Natural gas	159,569	14,666	260	6,268	168,227		+8,658	+5.4
liquids Natural gas	13,457,498	1,167,567	21.912	454,522	14,193,565	14,160.828	+736,067	+5.5

^{*} Reserves of natural gas liquids are thousands of barrels of 42 U.S. gallons; reserves of natural gas are millions of cubic feet calculated at 14.65 psia. at 60° F.



figures are clearly stated to represent proved reserves. The figures in Table 18 (API and AGA, 1952, p. 6) "do not include (1) oil under the unproven portions of partly developed fields; (2) oil in untested prospects; (3) oil that may be present in unknown prospects in regions believed to be generally favorable; (4) oil that may become available by fluid injection methods from fields where such methods have not yet been applied; (5) oil that may become available through chemical processing of natural gas; (6) oil that can be made from oil shale, coal or other substitute sources." (The above policy of the Reserves Committee applies equally to natural gas and natural gas liquids.)

In summary, the reserve figures represent areas of oil and gas that are essentially "drilled out" and do not include oil to be realized by secondary recovery (fluid injection) except in operating properties. They represent production we could depend on if the industry stopped developing and searching for new deposits. Actually, reserves in the country have been maintained for many years by current new developments in spite of high annual consumption. The condition should continue so long as there are adequate incentives for continued search.

MAPS

Figure 1 is an index map of the State showing in a general way the oil and gas producing areas. The Hugoton Gas Area (southwestern Kansas) is shown on Plate 2 which is in the pocket on the back cover. Most of the other "western" Kansas counties having oil or gas production are shown on Figures 4 through 15 grouped together on the succeeding pages. Plate 1 shows areas of production in "eastern" Kansas counties. The line between "eastern" and "western" Kansas is the 6th principal meridian which passes through Wichita. Sedgwick and Sumner Counties, which cross this line, are considered as western Kansas counties.

For western Kansas the entire area designated as a field is shown on the map. In eastern Kansas only the part of the field producing oil during 1952 is shown on the map; this is deemed advisable because large areas in the older eastern Kansas fields are not producing oil at the present time. Another important difference is that gas-producing areas in western Kansas are shown but they are not shown on the eastern Kansas map.



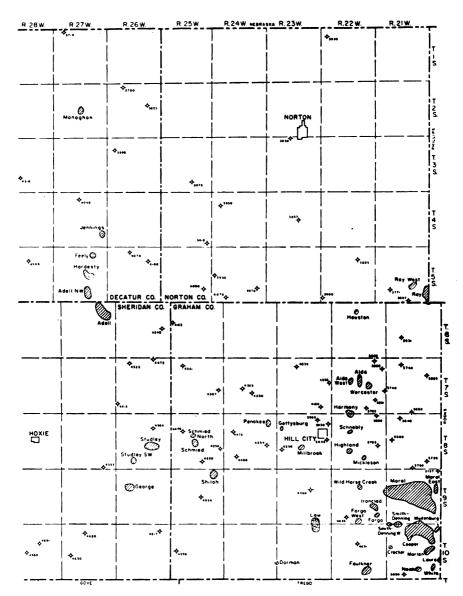


Fig. 4.—Map of Graham, Norton, and parts of Decatur and Sheridan Counties.

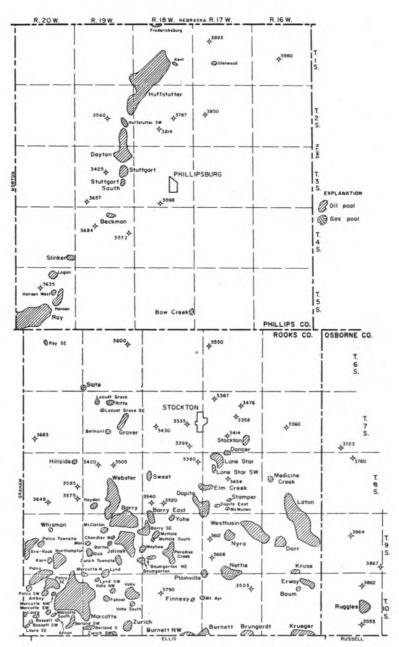
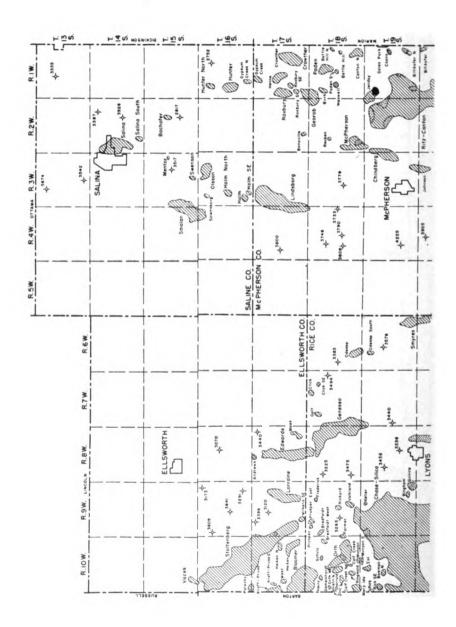
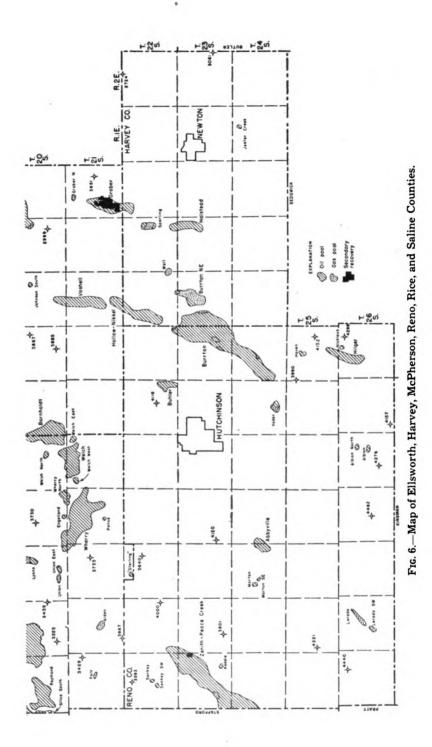


Fig. 5.—Map of Phillips and Rooks Counties and part of Osborne County.





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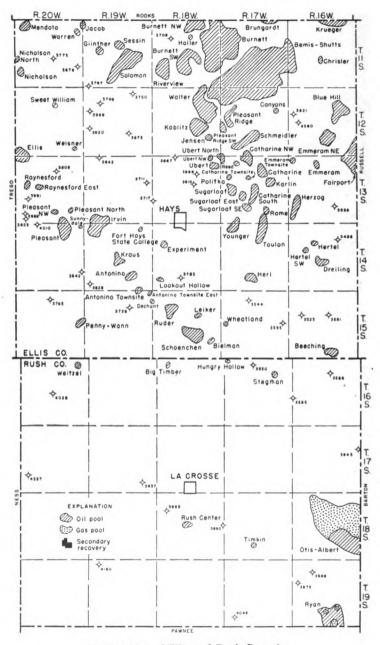


Fig. 7.—Map of Ellis and Rush Counties.

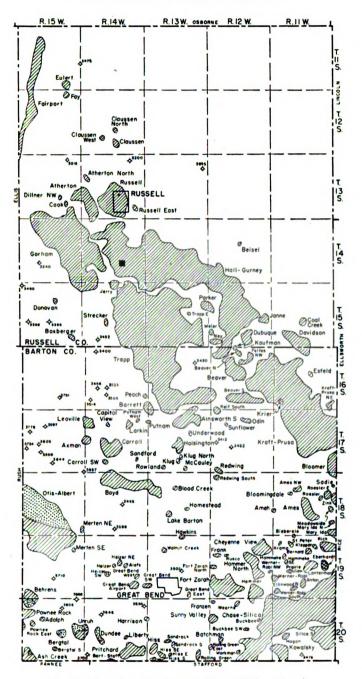
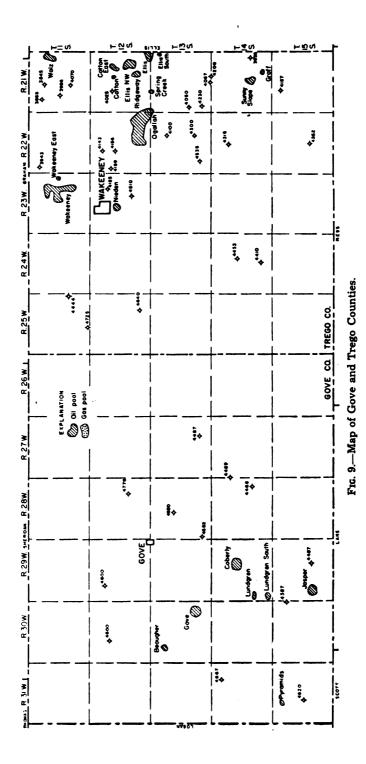
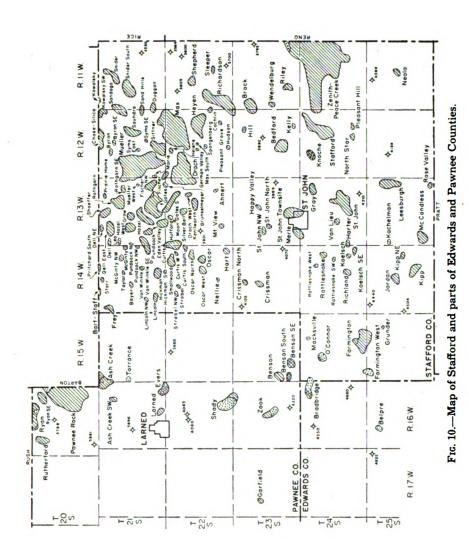


Fig. 8.—Map of Barton and Russell Counties.





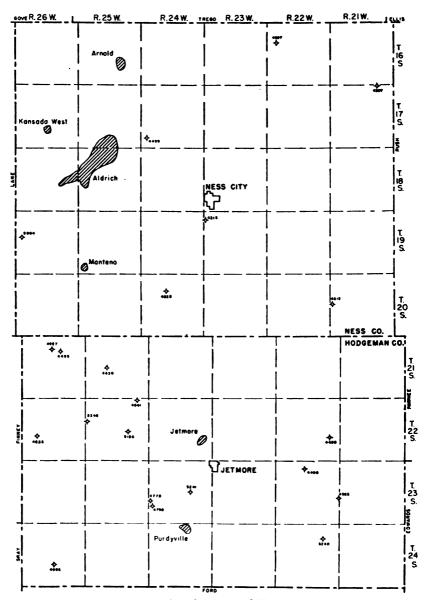


Fig. 11.-Map of Hodgeman and Ness Counties.

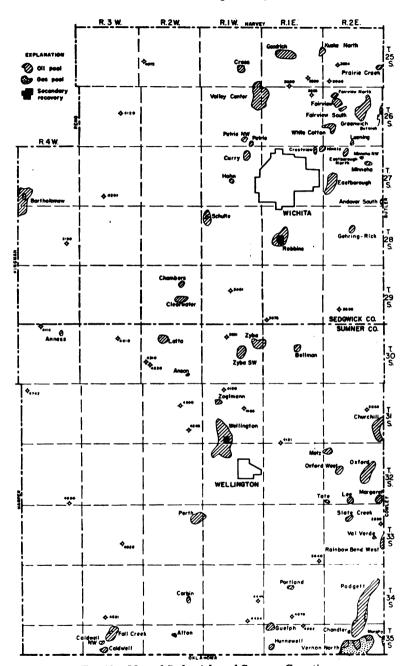
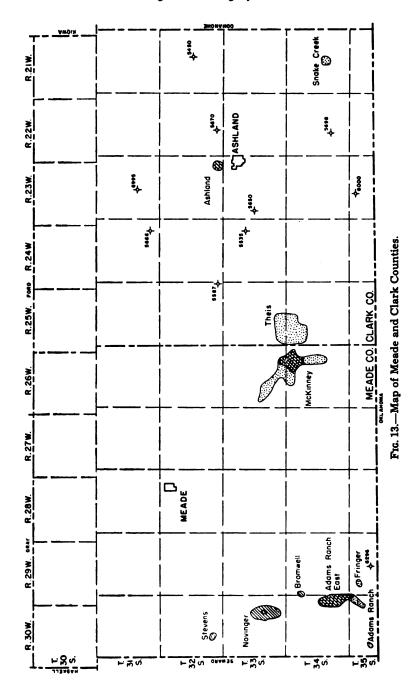


Fig. 12.—Map of Sedgwick and Sumner Counties.



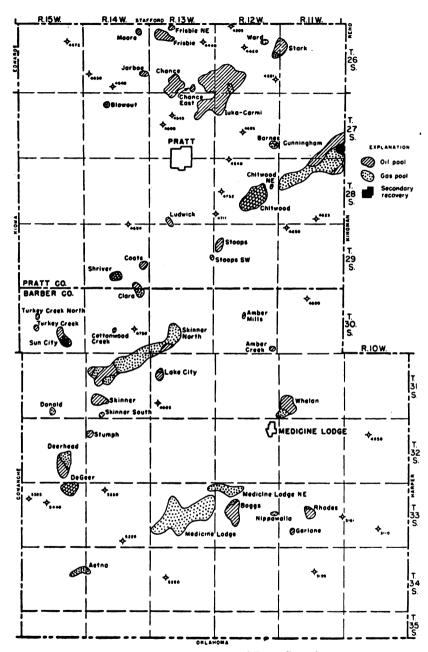
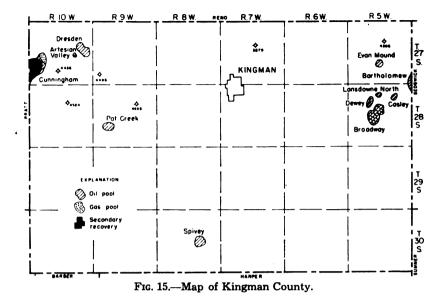


Fig. 14. Map of Barber and Pratt Counties.



ALLEN COUNTY (Map Pl. 1)

The 1952 production: oil from 26 areas in 10 fields 609,577 barrels including approximately 280,872 barrels from secondary recovery operations, gas 385,683 thousand cubic feet. Wells drilled in 1952 (recorded): oil 69, dry 6, input 67, total 142.

Developments during 1952.—Oil production in Allen County was much greater than in 1951. The greatest drilling activity reported was in connection with water-flooding operations in the **Humboldt-Chanute** field. No wildcat wells were reported. All wells reported are pool wells (Table 19).

Table 19.—Pool wells drilled in Allen County during 1952

Field	Oil wells	Dry holes	Injection wells on water-flood projects
Bronson-Xenia	2	••••	11
Elsmore Shoestring	2	****	8
Humboldt-Chanute	56	5	48
Iola	5	****	
Moran	4	1	***
Total .	69	6	67

Oil production in Allen County fields is listed in Table 66. Gas production is listed in Table 67. Locations of areas that produced oil in 1952 and of secondary recovery projects in the county are shown on Plate 1. Secondary recovery data are recorded in Table 1.

ANDERSON COUNTY

(Map Pl. 1)

The 1952 production: oil from 13 areas in 7 fields 576,882 barrels including approximately 501,842 barrels from secondary recovery projects, gas 919 thousand cubic feet. Wells drilled in 1952 (recorded): oil 27, dry 2 (wildcats), input 33, total 62.

Developments during 1952.—Oil production was somewhat greater than in 1951 when 551,340 barrels was reported. The reported gas production came from 5 wells in the southeast part of the county. There were 19 oil wells and 15 water input wells reported on water-flooding projects in the Bush City-Centerville area. One oil well and two water input wells were reported in the Garnett Shoestring field. In the Colony-Welda field 7 oil wells and 16 input wells were reported in secondary recovery projects.

Two dry wildcat tests were reported in Anderson County in 1952. The Ingelright No. 1 Hirt well, NW¼ NW¼ sec. 15, T. 20 S., R. 18 E., was abandoned at a depth of 1,010 feet. The Jensen and Lind, Snoffer and Son No. 1 Freeman Borth well in sec. 4. T. 22 S., R. 18 E., was drilled to a total depth of 1,653 feet.

Oil production in Anderson County fields is listed in Table 66 and gas production in Table 67. Locations of areas that produced oil in 1952 and of water-flooding projects are shown on Plate 1. Data on secondary recovery projects are listed in Table 1.

BARBER COUNTY

(Map Fig. 14)

The 1952 production from 23 pools: oil 986,825 barrels, gas 6,407,405 thousand cubic feet. Wells drilled in 1952: oil 18, gas 7, dry 19, total 44 including 11 wildcats. New pools discovered 3. Secondary recovery projects 1.

Developments during 1952.—Drilling activity increased about 30 percent and oil production showed a modest gain. Gas production declined almost one-third during the year.

W. J. Coppinger opened the new Amber Creek pool in sec. 36, T. 30 S., R. 12 W., about 3 miles from the Amber Mills pool



discovered last year. The new pool was assigned an initial potential of 28 barrels of oil per day and 14 percent water, producing from Mississippian strata below 4,300 feet depth.

The second new pool, the Stumph, was discovered by the National Cooperative Refinery Association in sec. 7, T. 32 S., R. 14 W. on the Stumph-Smith lease about 1½ miles southwest of the Skinner South pool. The new well produces from Simpson rocks between 4,963 and 4,970 feet depth. The discovery well swabbed 15 barrels of oil per hour on a preliminary test and later was given a rating of 509 barrels per day.

Nadel and Gussman found oil in Pennsylvanian basal conglomerate between the depths of 4,541 and 4,553 feet on their Gypsum "B" lease in sec. 17, T. 30 S., R. 15 W. The new oil pool, just north of the Turkey Creek field, was named Turkey Creek North. Commercial production was not found in the Lansing rocks, which produce in the Turkey Creek field, but good shows of oil in the

TABLE 20.—Dry wildcat tests drilled in Barber County during 1952

Company and farm	Location '	Depth to top of LansK.C., feet	Depth to top of Viola, feet	Depth to top of Arbuckle, feet	Total depth. feet
W. J. Coppinger No. 1 Meeks	SE¼ SE¼ SE¼ 4-30-11W	3,869	4,650	4,829	4,880
*Natl. Coop. Ref. Assn. No. 1 Lambert	NE¼ SE¼ SE¼ 23-30-14W	3,919	4,498	4,700	4,750
Barbara Oil & Cities Service No. 1 Harriet Mills	NW¼ NW¼ NE¼ 30-31-13W	3,752	4,433	4,636	4,665
Continental Oil Co. No. 1 R. Gerstner	NW¼ SW¼ NW¼ 9-32-10W	3,697	4,684	4,893	4,950
*Prime Drlg. & Elliott Davis No. 1 Nellie Clark	NW¼ NW¼ NW¼ 27-33-10W	3,785	4,831	5,085	5,110
Carl Todd Drlg. Co. No. 1 "A" Burns	NE¼ NE¼ NE¼ 24-33-11W	3,850	4,899	5,136	5,161
Anschutz Drlg. Co. No. 1 Mills	C NE¼ SE¼ 5-33-14W	4,085	4,938	5,182	5,220
Champlin Refg. Co. No. 1 William A. Wheats	C NE¼ NW¼ 34-33-14W	4,078	4,967		5,220
Anschutz Drlg. Co. No. 1 Winters	SW¼ SW¼ NE¼ 7-33-15W	4,106	5,082	5,344	5,38 5
*Fischer Oil Co. No. 1 J. W. Brass	C W2 SW1/4 SW1/4 9-33-15W	4,252(?)	5,154	5,402	5,440
*Aylward Drlg. Co. et al. No. 1 Blunk	SW¼ SE¼ SW¼ 17-34-13W	4,096	5,081		5,250

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



basal conglomerate were tested. Hydrafracing resulted in the assignment of a minimum potential.

Routine drilling in presently producing pools added 1 Viola limestone producer to the Amber Mills pool, 1 Lansing ("Massey" zone) producer and 1 Pennsylvanian basal conglomerate producer to the Sun City field, and 5 extension wells to the Whelan pool. Six of the 7 new oil wells in the Rhodes pool were added on its western side. The Sinclair Oil Company found 3 million cubic feet of gas per day in uppermost Mississippian rocks on the northwestern flank of the pool. One of the 4 large gas wells completed in the Medicine Lodge Northeast field, which produces from Tonganoxie sandstone, the Skelly Oil Company No. 3 Alexander well, is capable of producing more than 80 million cubic feet of gas per day.

The gas repressuring project operated in the **Sun City** field by the Great Lakes Carbon Corporation reported no new developments. Data on this project are given in Table 1.

New pools are listed in Table 6. Pertinent data on the dry wildcats are given in Table 20 and Figure 14 shows the location of the producing areas and dry wildcats. Oil production is listed in Table 66 and gas production in Table 67.

BARTON COUNTY

(Map Fig. 8)

The 1952 production from 120 pools: oil 16,959,379 barrels, gas 2,675,466 thousand cubic feet. Wells drilled in 1952: oil 271, gas 4, dry 253, salt-water disposal 6, total 534 including 26 wildcats. New pools discovered 17, revived 1, combined 11.

Developments during 1952.—Oil production declined about 2 million barrels during the year, while gas production decreased modestly. Barton County maintained its place as the leading oil-producing county and the county having the most wells drilled during the year.

Of the wildcat wells completed, 17 were successful in finding new oil and/or gas pools. These new pools are the Alefs, Bieberle, Buckbee Southwest, Frank, Great Bend Airport, Great Bend Southwest, Hawkins, Heizer Northeast, Heizer Southwest, Hiss East, Kramp, Liberty, Lott, Mary Ida North, Redwing South, Sandrock South, and Walnut Creek. The Peach pool, originally discovered in 1944 and abandoned two years later, was revived



TABLE 21.— Dry wildcat tests drilled in Barton County during 1952

Company and farm	Location	Depth to top of LansK.C. feet	Depth to top of Arbuckle, feet	Total depth. feet
*Nadel & Gussman No. 1 Ehrlich	SE¼ SE¼ NW¼ 11-16-13W	3,134	3,396	3,430
B & R Drlg., Inc. No. 1 Nuss	SW¼ SE¼ NE¼ 6-16-14W	3,109	3,365	3,400
*John Lindas Oil, Inc. No. 1 Eurich	SW¼ SW¼ SW¼ 20-16-14W	3,187	3,448	3,456
*Derby Drlg. Co. No. 1 Ochs	SE¼ SE¼ SE¼ 20-16-14W	3,230	3,485	3,525
Derby Drlg. Co. No. 1 Schneider	SE¼ SE¼ NE¼ 29-16-14W	3,233	3,477	3,505
Musgrove Petro. Corp. No. 1 Brown	SE¼ SE¼ SW¼ 30-16-14W	3,202	3,479	3,514
*Natl. Coop. Ref. Assn. No. 1 Oliverius	SE¼ NE¼ SW¼ 27-16-15W	3,283	3,651	3,751
*Ben F. Brack Oil Co., Inc. No. 1 Farrell	NE¼ NE¼ NW¼ 19-17-12W	3,162	3,404	3,412
John Lindas Oil, Inc. No. 1 Rziha	NE¼ NE¼ SE¼ 20-17-12W	3,194	3,444	3,452
Pen F. Brack Oil Co., Inc. No. 1 Seide	NW¼ NW¼ SW¼ 9-17-15W	3,253	3,558	3,597
Stanolind Oil & Gas Co. No. 1 Leo Stos	NW¼ NE¼ NE¼ 18-17-15W	3,300	3,546	3,775
Ben F. Brack Oil Co., Inc. No. 1 Stos	SE¼ NW¼ SW¼ 19-17-15W	3,354	3,614	3,734
Ben F. Brack Oil Co., Inc. No. 1 Ohnmacht	NE¼ SE¼ NW¼ 20-17-15W	3,353	3,600	3,60
Sheedy & Sheedy No. 1 Pospishel	SE¼ SW¼ SE¼ 20-17-15W	3,346		3,55
*Northern Ordnance, Inc. No. 1 Schreiber	NE¼ NE¼ NE¼ 33-17-15W	3,297	3,604	3,64
*Carl Todd Drlg. Co. et al. No. 1 Bartonek	SE¼ SE¼ SE¼ 36-17-15W	3,269	3,525	3,557
Darby & Bothwell, Inc. No. 1 Laudick	NW¼ NW¼ NE¼ 22-18-14W	3,173	3,422	3,465
D. R. Lauck Oil Co., Inc. No. 1 Trester	SE¼ SE¼ NW¼ 33-18-14W	3,252	3,547	3,58
*Hilton Drlg. Co., Inc. No. 1 Millin	SE1/4 SW1/4 NW1/4 22-19-13W	3,207		3,50
*L. D. Sargent No. 1 Jurgenson	NW¼ NW¼ NW¼ 27-19-15W	3,290	3,639	3,710
*Buick Drlg. et al. No. 1 Rugan	NE¼ NE¼ SE¼ 33-20-11W	3,144	3,448	3,47
E. H. Adair Oil Co. No. 1 L. Merten	NE¼ NE¼ SE¼ 1-20-14W	3,224	3,475	3,55
*Duke & Wood Drlg. Co. No. 1 Luce	SW ¹ / ₄ SW ¹ / ₄ NE ¹ / ₄ 8-20-14W	3,295	3,614	3,64
*Vickers Petro. Co., Inc. No. 2 Benjamin	NW¼ NE¼ SW¼ 31-20-14W	3,344	3,656	3,70

John Lindas Oil, Inc. No. 1 Kliewer	NW¼ NW¼ NE¼ 1-20-15W	3,305	3,623	3,666
John Lindas Oil, Inc. No. 1 Cameron	SE ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ 3-20-15W	3,359	3,717	3,805

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

during the year by the Anschutz Drilling Company. The Lott pool, one of the 1952 discoveries, was combined with the Beaver South field during the year. Nine of the new pools produce their oil from Arbuckle strata; all the others produce from porous zones in the Lansing-Kansas City group, except the Heizer Southwest, the one new gas pool of the county, which produces from Pennsylvanian basal conglomerate.

Seven new producing zones in old fields were discovered during 1952. In most cases either the Arbuckle dolomite or the Lansing-Kansas City group was added. According to available information in the Beaver Northwest field, combined during the year with the Hall-Gurney field of Russell County, commercial oil production was found in Pre-Cambrian rocks by the National Cooperative Refinery Association No. 7 Hofmeister well. Other new producing zones are listed in Table 7.

Of the 26 dry wildcat tests, 9 reported shows of oil and or gas. Two of the unsuccessful tests were near the abandoned **Pospishel** field and one was close to the abandoned **Millard** field.

During the year, 45 old wells were worked over in the county. Of these, 27 were declared oil producers, 10 dry, and 8 converted to salt-water disposal wells.

Two of the wells drilled especially for salt-water disposal give us interesting information on the thickness of the Arbuckle in Barton County. The Wunderlich No. 5 Roessler B well in sec. 14, T. 18 S., R. 11 W. found more than 500 feet of the Arbuckle dolomite. The Lee Drilling Company No. 7 Bryant well in sec. 26, T. 20 S., R. 12 W. found the top of the Arbuckle dolomite at 3,447 feet; at the total depth, 4,018 feet, the well was still in the Arbuckle.

Many fields producing from the same formation and in close proximity were combined. During the year the following combinations were recorded by the Kansas Nomenclature Committee: Bryant Southeast with Chase-Silica; Hiss West with Pritchard; Kowalsky Northwest with Kowalsky; Eveleigh with Boyd; Dartmouth and Dartmouth Northwest with Fort Zarah; Boyle with



Carroll; Laudick and Lott with Beaver South; Cheyenne View North with Cheyenne View; and Beaver Northwest with Hall-Gurney.

Oil production is given in Table 66, gas production in Table 67, and wildcat well data in Table 21. Figure 8 shows the oil and gas pools and the dry wildcat tests. The new pools are listed in Table 6.

BOURBON COUNTY

(Map Pl. 1)

The 1952 production from 3 fields: oil 56,984 barrels.

Developments during 1952.—Oil production in Bourbon County was much greater than in 1951. One deep wildcat well, the Harry S. Perry No. 1 C. R. Burney well in the SW¼ sec. 22, T. 25 S., R. 25 E., was reported abandoned as a dry hole early in 1953. The driller's log indicates that the top of Mississippian limestone was reached at 375 feet, top of the Chattanooga shale at 800 feet, and the top of the Arbuckle rocks at 814 feet. The depth to Pre-Cambrian rocks is probably 1,680 feet. Total depth was 1,945 feet.

Oil production in Bourbon County in 1952 is listed in Table 66. Areas that produced oil are shown on Plate 1. Information on two secondary recovery projects in Allen and Bourbon Counties is summarized in Table 1.

BROWN COUNTY

(Map Pl. 1)

The 1952 production from 1 field: oil 5,001 barrels. Wells drilled in 1952: oil 1, dry 1 (wildcat).

Developments during 1952.—One oil well was added to the Livengood field in 1952. Initial daily production of the well was reported as 12 barrels of oil and 95 percent water.

In October a dry wildcat test, in the NW¼ NW¼ NW¼ sec. 10, T. 1 S., R. 17 E., the Palensky and Sons No. 1 Babcock well, reached a total depth of 2,600 feet. The following tops were reported: Kansas City, 805; Mississippian, 2,163; Kinderhookian, 2,334; and "Hunton," 2,580 feet.

Production of the **Livengood** field is listed in **Table 66**. **Loca**tions of the field and of the dry wildcat well drilled in **1952** are shown on Plate 1.



BUTLER COUNTY

(Map Pl. 1)

The 1952 production: oil from 62 fields 8,164,208 barrels including approximately 1,708,523 barrels from secondary recovery operations. Wells drilled in 1952: oil 254, dry 144, water input 83, salt-water disposal 5, total 486 including 23 wildcats. New pools discovered 3.

Developments during 1952.—Three new oil fields were opened in Butler County during 1952. The Bare, which produces from "Bartlesville sand" between 2,778 and 2,798 feet, was discovered by the White and Ellis No. 1 Bare well in the SE¼ SE¼ NW¼ sec. 31, T. 28 S., R. 5 E. Initial daily production of the well was 11 barrels of oil. Five dry holes and one oil well were added in the field. The K. T. Wiedemann No. 1 Lucas well, in the SW¼ SW¼ SE¼ sec. 3, T. 27 S., R. 7 E., opened the Brickley Southwest pool. Daily production of 20 barrels of oil from the "Bartlesville sand" was found between 2,699 and 2,732 feet. Three dry holes were drilled in the field later in the year. Mississippian limestone between 2,709 and 2,719 feet yields oil in the Murdock pool, found by the Wixson Drilling Co. No. 1 Brainerd well in the NW¼ NW¼ NW¼ sec. 23, T. 25 S., R. 3 E. Daily production was rated

TABLE 22.—Pool wells drilled in Butler County during 1952

Field	Oil wells	Dry holes	Injection wells on water-flood projects	Salt-water disposal wells
Allen-Robison		4		
Augusta	14	1 1•		
Augusta North	1	••••		••••
Bare	2	5		••••
Blankenship	11	6	3	••••
Brandt-Sensenbaugh	4 1*	1	••••	••••
Brickley	2	4		
Brickley Southwest	1	3	••••	
Butwick Northeast		ĭ	••••	••••
DeMoss		î		••••
Douglass	••••	2	****	****
Eckel	****	ī	••••	••••
Edgecomb		î	••••	••••
Elbing	7	2	•…	1
Elollig	•	2	••••	3*
Elbing East		2		U
El Dorado	92	4	58	(2 water supply
Doi ado	11*	7	J 0	(2 water suppry
Ferrell	2	••••	••••	

TABLE 22.—Pool wells drilled in Butler County during 1952, concluded

Field	Oil wells	Dry holes	Injection wells on water-flood projects	Salt-water disposal wells
Four Mile Creek	2	2		
Fox-Bush	13	16	22	• • • • • • • • • • • • • • • • • • • •
Garden	5	2	••••	
Guyot		2	***	
Hartenbower	1	1	****	
Hartenbower South		1	****	
Haverhill		1	••••	
Hazlett	17	6	2	1
Hickory Creek	1			
Joseph	_	1	••••	••••
Keighley	1	2	•	••••
Knox	-	4	••••	••••
Kramer-Stern	11	7	••••	••••
Leon		12	••••	2
Mahannah		1		
McCann	****	ī	••••	••••
McCraig		$\tilde{\mathbf{z}}$		
McCullough		ī		
Minneha		ī	****	****
Muddy Creek	4	4	••••	****
Murdock	i	2	••••	••••
Pettit	•	ĭ	••••	••••
Pierce	2	1	••••	••••
Pierce West	í	_	••••	••••
Potwin	3	 1	••••	••••
Reynolds-Schaffer	8	3	••••	 1
Salter	0 1	3 1	••••	1
		_	••••	••••
Semisch	26	4 2	****	••••
Seward	4 2*	2	••••	••••
Smock-Sluss			••••	•
Snowden-McSweeney	17	4	••••	
Thompson	••••	1	••••	••••
Weaver		3	••••	••••
Young	••••	3	••••	••••
Total	254	121	83	5

^{*}Old wells worked over

at 10 barrels of oil. Two dry holes were drilled in the field later in the year.

Of the 1952 oil production, 3,437,824 barrels came from the **El Dorado** field, whose cumulative production is more than 211 million barrels of oil. The field has 92 new oil wells drilled during the year. In addition, 11 old wells worked over began production.

Oil production in the various Butler County fields is listed in Table 66. Locations of areas that produced oil in 1952 and of secondary recovery projects are shown on Plate 1. Data on waterflooding operations are listed in Table 1. Data on pool wells

TABLE 23.—Dry wildcat test drilled in Butler County during 1952

Company and farm	Location	Depth to top of Kansas City feet	Depth to top of Mis- , sissippian, feet	Total depth feet
*R. J. Wixson Drlg. Co. No. 1 Langley	NE¼ NW¼ SW¼ 33-23-3E	2,220	2,680	2,946
Saturn Drlg., Inc. No. 1 Mamie Harsh	SE¼ SW¼ SE¼ 32-23-8E	2,010	2,754	2,784
*Rex & Morris Drlg. Co. No. 1 Poffinbarger	NE¼ SE¼ SE¼ 14-24-4E	2,080	2,460	2,490
*J. H. Wagner No. 1 C. R. Joseph	NE¼ NE¼ NE¼ 22-24-4E	2,100	2,490	2,61
*White & Ellis Drlg. Co. No. 1 Dornbos	SE¼ SE¼ NE¼ 14-24-5E	2,050		2,65
Saturn Drlg., Inc. No. 1 Stone	NW¼ NW¼ NE½ 23-24-7E	4 2,005	2,731	2,77
*Rex & Morris Drlg. Co. No. 1 Dailey	SW¼ SW¼ NW½ 30-24-7E	4 2,346	2,700	2,728
*Time Petro. Co. No. 1 Schimpff	NE¼ NE¼ SW¼ 4-24-8E	1,906	2,695	2,70
R. J. Wixson Drlg. Co. et al. No. 1 Reed	SW1/4 SW1/4 SE1/4 29-25-3E	2,320	2,757	2,81
*Murfin Drlg. Co. No. 1 Dickson	SW¼ SE¼ SE¼ 36-25-6E		2,747	2,75
*Imperial Petro. Co., Inc. No. 1 Liggett	NE¼ NE¼ SW¼ 34-25-7E	2,054	2,741	2,79
*Imperial Petro. Co., Inc. et al. No. 1 Jahren Ranch	NE¼ SE¼ SE¼ 30-25-8E	2,076	2,781	2,80
*Imperial Petro. Co., Inc. No. 1 Jahren	NE¼ Lot 4 30-25-8E	2,060	2,754	2,77
*Rex & Morris Drlg. Co. No. 1 Shaffer	SW¼ SW¼ NW½ 23-26-3E	4 2,354	2,775	2,79
*J. P. Gaty No. 1 Stephens	NE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ 28-26-3E	2,341	2,800	2,86
*Rex & Morris Drlg. Co. No. 1 Anderson	SE¼ SE¼ SW¼ 29-26-3E	2,381	2,812	3,26
*White & Ellis Drlg. Co. et al. No. 1 Frazier	NW¼ NW¼ NE½ 20-26-4E	2,143	2,620	2,92
*J. P. Gaty No. 1 Scott	NE¼ NW¼ NW⅓ 17-27-3E	4 2,360		2,56
Mallonee Drlg. Co. No. 1 Young	SE¼ NE¼ SE¼ 3-28-3E	2,293	2,779	3,11
*Eckland Drlg. Co. No. 1 Leaply	SE ¹ 4 SW ¹ 4 NE ¹ 4 31-28-3E	2,460	3,010	3,30
*Mallard Drlg. Co. et al. No. 1 C. W. Clark	NE14 SW14 NE14 19-28-5E	2,165	2,763	2,80
*Ben Gralapp No. 1 Simmons	NW ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ 3-29-3E	2,300	2,785	3,04
*Rex & Morris Drlg. Co. No. 1 Carsten	SE14 NE14 SW14 26-29-3E	2,550	******	3,25

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service and other available data sources have been used.



drilled in 1952 are listed in Table 22, and data on dry wildcat wells are listed in Table 23. New pools are listed in Table 6.

CHASE COUNTY (Map Pl. 1)

The 1952 production: oil from 3 fields 30,629 barrels; gas 65,145 thousand cubic feet from 2 active fields. Wells reported drilled in 1952: oil 1, dry 4, total 5 including 2 wildcats.

Developments during 1952.—The production of oil was slightly less than in 1951. Reported gas production increased nearly 7 million cubic feet. Two dry wildcat wells were drilled. One oil well and one dry hole were reported in the Teeter field, and a dry hole in the Bazaar field. Gas production came from the Davis and Elmdale fields.

The George Martin No. 1 Winsor well in the SW¼ SW¼ NW¼ sec. 2, T. 20 S., R. 6 E., drilled to a total depth of 2,532 feet, found the Lansing group at 1,474 feet and the Viola at 2,027 feet. The R. E. Mendenhall No. 3 Piper well, SW¼ NW¼ NW¼ sec. 14, T. 20 S., R. 9 E., reached the Mississippian limestone at 2,445 feet; total depth was 2,484 feet

Oil production statistics in Chase County are listed in Table 66 and gas in Table 67. Locations of areas that produced oil in 1952 and of wildcat wells drilled are shown on Plate 1.

CHAUTAUQUA COUNTY

(Map Pl. 1)

The 1952 production: oil from 15 fields 798,706 barrels; gas 126,227 thousand cubic feet. Wells drilled in 1952 (recorded): oil 2, dry 6, input 4, total 12.

Developments during 1952.—Oil production in Chautauqua County was somewhat less than in 1951. With quite incomplete coverage one dry hole was reported in each of the Elgin, Frazier, Hale-Inge, Peru-Sedan, Wauneta, and Wayside-Havana fields.

Oil production data for Chautauqua County are listed in Table 66. Gas production is listed in Table 67. Locations of areas that produced oil in 1952 are shown on Plate 1. Drilling on secondary oil recovery projects is reported in Table 1, although no production was reported for these projects.



CHEYENNE COUNTY

There was no reported production from the county's one named pool, the Judy. Wells drilled during 1952: total 5 including 4 dry wildcats.

Developments during 1952.—The Ben F. Brack Oil Co., Inc., drilled their No. 2 Judy well in sec. 35, T. 1 S., R. 39 W., southeast of the now temporarily abandoned discovery well of the Judy pool. All drill-stem tests made on the offset test were unsuccessful. Important marker horizons encountered in drilling are: Ft. Hays limestone, 1,551; Dakota formation, 2,432; Morrison formation, 2,643; Stone Corral dolomite, 3,074; Topeka limestone, 3,960; Lansing-Kansas City group, 4,149; Marmaton group, 4,397; Cherokee group, 4,654; Mississippian limestone, 4,854; and Mississippian dolomite, 4,875 feet depth.

The Deep Rock Oil Corporation completed an important deep test in the northwestern part of the county on the Clark farm in sec. 23, T. 1 S., R. 42 W. The important marker horizons were found at the following depths: Dakota formation, 2,445; Morrison formation, 2,866; Stone Corral dolomite, 3,508; Topeka limestone, 4,247; Lansing-Kansas City group, 4,586; Mississippian strata, 5,332; Arbuckle dolomite, 5,403; Lamotte sandstone, 5,505; and weathered Pre-Cambrian granite 5,632 feet. The drill-stem tests made at several critical levels failed to reveal the presence of either oil or gas.

The Service Drilling Company completed a test on the Beeson farm in sec. 8, T. 3 S., R. 38 W., for which the following tops were reported: Ft. Hays limestone, 1,830; Dakota formation, 2,251; Morrison formation, 2,782; Stone Corral dolomite, 3,360; Lansing-Kansas City group, 4,488; Cherokee group, 4,962; Mississippian rocks, 5,189; and Arbuckle dolomite, 5,375 feet depth. A drill-stem test from 4,540 to 4,595 recovered some free oil, but the other tests were negative. The hole was abandoned at a total depth of 5,392 feet.

The wildcat test drilled by Sam King et al. on the Martin farm in sec. 10, T. 4 S., R. 41 W., had to be abandoned at a relatively shallow depth because of lost circulation of drilling muds. The hole was drilled deep enough to find the Morrison formation at 2,745 feet and the Permian redbeds at 2,970 feet depth. Total depth was 3,075 feet.



A careful analysis of available well cuttings and electric log of The Texas Company No. 1 Walz well in sec. 3, T. 5 S., R. 42 W. allows the following summation. The Ft. Hays limestone was found at 1,750, Codell sandstone at 1,820, Greenhorn limestone at 2,002, and Dakota formation at 2,188 feet depth. The D and J sands of the Dakota formation, now producing in the Denver-Julesburg basin in southwestern Nebraska, were present in this test. Other tops are: Permian redbeds, 2,956; Blaine formation, 3,007; Stone Corral dolomite, 3,272; Ft. Riley limestone, 3,451; Topeka limestone, 4,115; Lansing-Kansas City group, 4,340; base of the Kansas City, 4,626; Marmaton group, 4,696; Cherokee group, 4,814; Mississippian strata, 5,038; Arbuckle, 5,222; and Lamotte sandstone, 5,337 feet depth. The test was abandoned at 5,387 feet. The bottom-hole pressures in this test were uniformly below normal.

CLARK COUNTY

(Map Fig. 13)

The 1952 production from 3 fields: oil 13,043 barrels, gas 263,971 thousand cubic feet. Wells drilled in 1952: oil 1, gas 2, dry 10, total 13 including 9 dry wildcats. New pools 1.

Developments during 1952.—The new pool in Clark County, the Snake Creek, was discovered by Sunray Oil Corporation on the Harper lease in sec. 21, T. 34 S., R. 21 W. Several sands in Lower Pennsylvanian rocks were tested, one between 5,452 and 5,460 feet had shows of both oil and gas. Another between 5,536 and 5,545 feet showed oil, water, and a small amount of gas after hydrafrac had been used. A show of gas and a little oil were found in the top of the Mississippian rocks between 5,540 and 5,550 feet. The hole, drilled into Arbuckle dolomite without further shows, was plugged back to the sand at 5,452 and completed with a rated potential of 6½ million cubic feet of gas per day and 48 barrels of light oil per day. The producing sand has been tentatively assigned to the Morrowan Series.

In the Ashland pool, a second producer rated at 134 barrels of oil per day was completed in the Lansing limestone. The Skelly Oil Company successfully drilled a second gas producer in the Theis gas pool on the "D" lease in sec. 8, T. 34 S., R. 25 W. Its rated capacity is $4\frac{1}{2}$ million cubic feet of gas per day.



Company and farm	Location	eleva- tion, feet	top of LansK.C., feet	top of Mississippian, feet	Total depth, feet
Gulf Oil Corp. No. 1 Abel Ranch	C SE¼ SE¼ 21-31-23W	2,466	4,552	5,508	6,995
J. M. Huber Corp. No. 1 Denton	NE¼ NE¼ NE¼ 35-31-24W	2,381	4,447	5,435	5,666
Panoma Corp. No. 1 Stephens	NE¼ SE¼ NW¼ 22-32-21W	2,056	4,520	5,435	5,450
Stanolind Oil & Gas Co. No. 1 George Z. Perry	SW¼ SW¼ NE¼ 33-32-22W	2,016	4,458	5,337	5,670
*Leftoutch et al. No. 1 Du Vall	NE¼ NE¼ SE¼ 36-32-25W	2,197	4,456	5,377	5,587
Stanolind Oil & Gas Co. No. 1 David S. Santee	SE¼ SE¼ SE¼ 18-33-23W	2,004	4,422	5,324	5,650

Graham-Messman-Rinehart NE1/4 NE1/4 NE1/4

14-33-24W C NW¼ NW¼

28-34-22W

4-35-23W

SW4 SE4 NW4

Oil Co. No. 1 Gardiner

*J. M. Huber Corp. et al.

No. 1 Arnold

Skelly Oil Co.

No. 1 G. M. Dunne

TABLE 24.—Dry wildcat tests drilled in Clark County during 1952

2,048

1.827

1,875

4,429

4.418

4,490

5,330

5.493

5,601

5,535

5.698

6,000

Only one of the 9 dry wildcat tests penetrated the Arbuckle dolomite; however, most of the others were drilled well into Mississippian strata. No shows of oil were reported in these tests.

The new pool is listed in Table 6. Data on dry wildcat tests are given in Table 24. Locations of producing areas and dry wildcat tests are shown on Figure 13. Data on oil production are given in Table 66, and on gas production in Table 67.

CLAY COUNTY

(Map Pl. 1)

The 1952 production from 2 fields: oil, none reported. Wells drilled in 1952: oil 2, dry 2, total 4, including 1 wildcat.

Developments during 1952.—No oil production figures were available for Clay County's two known pools. Drilling in the county added a new oil well and a dry hole to the Wakefield field, one dry wildcat, and a dry hole in the Wakefield Northeast field. The dry wildcat is the Mahoney and Fehr No. 1 Wiese well, NW¼ SE¼ NW¼ sec. 27, T. 9 S., R. 4 E. The well, drilled to a total depth of 1,920 feet in June, reached the top of Mississippian limestone at 1,883 feet.

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

Oil production statistics in Clay County are listed in Table 66. Locations of the producing fields and of the wildcat well drilled in 1952 are shown on Plate 1.

CLOUD COUNTY

Wildcat tests have been drilled in Cloud County from time to time, but so far no producing pool has been discovered.

Exploration during 1952.—During 1952 Thos. H. Allan et al. made the first test in Cloud County since 1950. The hole was put down on the Cleveland farm in the SW¼ SW¼ NE¼ sec. 14, T. 6 S., R. 2 W., to a total depth of 3,320 feet. This dry test, according to the sample log prepared by J. D. Davies, found the following marker horizons: Lansing-Kansas City, 1,912; Mississippian, 2,484; "Hunton," 2,753; Viola, 2,971; Simpson, 3,175; and Arbuckle, 3,286 feet depth. There were no shows of oil or gas, although many zones penetrated were porous.

COFFEY COUNTY

(Map Pl. 1)

The 1952 production: oil 85,651 barrels from 5 fields; gas 11,477 thousand cubic feet. Wells drilled in 1952 (reported): oil 8, dry 8, total 16 including 1 wildcat.

Developments during 1952.—Reported drilling activity in Coffey County during 1952 included 16 wells compared with 22 reported in 1951. Pool wells drilled in the county are listed in Table 25. The dry wildcat well drilled during the year is the Thomsen and Hartig No. 1 O'Narra well, NE¼ NE¼ SE¼ sec. 14, T. 21 S., R. 13 E., which was abandoned at 1,805 feet in August. The following tops were reported: Kansas City limestone, 1,007 feet; "Peru sand," 1,429 feet; "Cattleman sand," 1,470 feet, Mississippian limestone, 1,801 feet.

Locations of areas that produced oil in 1952 are shown on Plate 1. Oil production statistics are listed in Table 66.

TABLE 25.—Pool wells drilled in Coffey County during 1952

Field	Oil wells	Dry holes
Dunaway	1	
Van Nov	4	6
Virgil North	3	•
Winterscheid		<u>,</u> . 1
Total	-8	7

COWLEY COUNTY

(Map Pl. 1)

The 1952 production: oil from 77 fields 2,165,504 barrels including approximately 229,046 barrels from secondary recovery operations, gas 554,906 thousand cubic feet reported from 8 wells. Wells drilled in 1952 (reported): oil 141, gas 4, dry 134, input 18, water supply 1, salt-water disposal 2, total 300 including 19 wild-cats. New pools discovered 14, pools combined 1.

Developments during 1952.—Cowley County, with 14 new fields opened, by far outranked all other eastern Kansas counties in pool discoveries in 1952. Nine of the new oil pools produce from the "Bartlesville sand," three from Mississippian limestone, and one from "Layton sand." In April the Arkansas City West field was

TABLE 26.—Pool wells drilled in Cowley County during 1952

	Tulastian					
Field or pool	Oil wells	Gas wells	Dry holes	Injection wells on water-flood projects	Salt-water disposal wells	
Arkansas City			3			
Arkansas City West	1		6			
Baird	3		4			
Baird East	2	••••	3	••••	••••	
Bergkamp	13	••••	5	••••	••••	
Bergkamp Northwest	1	****	ĭ	••••	••	
	1	••••	i	••••		
Bogner	_	••••	2		•	
Box	1	••••	2		••••	
Brown	1	•		••••		
Bruce		••••	1	••••	1	
Burden	1	••••	1	••••	••••	
Cabin Valley	3	•	1		••••	
Canfield	2		1	••••	••••	
Copeland	1	••••	3	••••		
Couch	4		••••	••••		
Countryman	1		2	••••	••••	
Daniels			2	••••		
David	8		2	••••		
David South	4	••••	••••	••••	••••	
Deichman	$\overline{2}$	••••	1	•••		
Denton	_		ī			
Dexter	 1	••••	2	••••	••••	
Dunbar	1		ĩ	•		
Dutch Creek	1	••••	2	••••	••••	
•	1	••••		••••	****	
Eastman		••••	3	••••	••••	
Elrod	1	••••		••••	****	
Enterprise		•	2	••••	•	
Enterprise Northeast	3		2	••••	••••	
Estes		••••	1	••••	••••	
Ferguson Northwest	2	••••	••••	••	••••	
Frog Hollow			1	••••	••••	
Frog Hollow East		••••	3	****		
Fussell	1		••••	••••		
Geuda Springs	3		4	••••		
Geuda Springs West			ī	****		
acces ob.m.bcst		••••	-	••••	••••	

TABLE 26 .- Pool wells drilled in Cowley County during 1952, concluded

Field or pool	Oil wells	Gas wells	Dry holes	Injection wells on water-flood projects	Salt-water disposal wells
Gibson	29	3	6	•	1
Graham			1		****
Harvey	13		2	••••	
Henderson		••••	1		****
Hittle			1	••	
Hower	1		1		••••
Jarvis	1		2	••••	****
McKay	14	••••	4		****
Mansur	••••	••••	1	•	****
Millett	••••	••••	1	•	
Murphy	4		5	•	••••
New Salem		1	1	••••	
Nigger Creek			1		
Otto	••••		2		••••
Rahn			1		••••
Rahn Southwest		****	ī	••••	••••
Rainbow Bend			2	16	(1 water supply)
Rainbow Bend Northeast	1	••••	_		(I water suppry)
Rainbow Bend West	2	••••			(1 water supply)
Rock	5	••••	1	2	
Rock North	ĭ	••••	2		****
Slick-Carson	_	••••	ĩ	••••	••••
State	5	****	4	••••	••••
Thurlow	ĭ	••••	i	••••	••••
Tisdale	_	•	3	•	••••
Turner	****	••••	2	•··•	••••
Turner Turner West	 1	••••	2	••••	•
Walnut Bend	_		1	• · · · •	••••
Weathered		•		••••	••••
	••••	••••	1	••••	••••
Wilmot-Floral		••••	1		••••
Winfield	2		3	• • • •	••••
Total	141	4	115	18	2

opened by the Aylward Drilling Company No. 1 Land-Power well in the SW¼ SW¼ sec. 23, T. 34 S., R. 3 E. Initial daily production from "Bartlesville sand" was rated at 58 barrels of oil. The Smitherman-Cohen Drilling Company No. 1 Bergkamp well in the NE¼ SE¼ sec. 6, T. 35 S., R. 4 E., opened the Bergkamp, another "Bartlesville sand" pool. Production of 74 barrels of oil per day was reported from a zone between 3,202 and 3,225 feet. Another "Bartlesville sand" pool, the Bergkamp Northwest, was discovered by the Flossmar Oil and Gas Company No. 1 Maurer-Neuer well in the NW¼ NW¼ sec. 6, T. 35 S., R. 4 E. The producing formation lies between 3,208 and 3,211 feet; initial production of the discovery well was reported to be 25 barrels of oil per day. The Palmer Oil Corp. No. 1 Bogner well, in the SE¼ NE¼ sec. 24, T. 31 S., R. 5 E., is the discovery well of the Bogner

pool, in Mississippian limestone between 2,999 and 3,053 feet. Initial daily production of the well was rated at 25 barrels of oil. The Cabin Valley, a "Layton sand" pool between 2,188 and 2,197 feet, was found by the Crest Petroleum Company No. 1 Berry well, NE1/4 NE1/4 sec. 31, T. 33 S., R. 6 E. This well also was rated

TABLE 27.—Dry wildcat tests drilled in Cowley County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of Kansas City, feet	Depth to top of Mis- sissippian, feet	Total depth, feet
*The Palmer Oil Corp. No. 1 Williams	NE¼ NE¼ SW¼ 14-30-3E	1,226	2,464	3,093	3,186
*White & Ellis Drlg. Co. No. 1 Snodgrass	NE¼ NE¼ NE¼ 36-30-6E		2,170	2,972	3,045
*White & Ellis Drlg. Co. No. 2 Snodgrass	NW¼ SW¼ NE¼ 36-30-6E	•••••		2,884	2,917
*Beaumont Petro. Co. No. 1 Riding	NW¼ NW¼ NW¼ 3-30-7E	*******	2,137	2,889	2,955
*H. J. Uhl No. 1 Schoup	SW¼ SW¼ NW¼ 21-31-3E		2,528	3,105	3,155
*The Palmer Oil Corp. No. 2 Bogner	SE¼ SW¼ NE¼ 24-31-3E		2,303	3,020	3,498
*Laura Jane Oil Co., Inc. No. 1 Hammil	S2 SE¼ SW¼ 19-31-4E	1,138	2,410	2,958	2,965
*Earl F. Wakefield No. 1 Bernstorf	SW¼ NW¼ SW¼ 33-31-4E	1,185	2,496	3,024	3,033
Hill & Hill No. 1 Ireton	SW¼ SW¼ NE¼ 11-32-3E	1,185	2,554	3,086	3,415
*Earl F. Wakefield No. 1 Weigle	NW¼ NE¼ NE¼ 7-32-6E	1,364	2,452	3,147	3,180
Russell Cobb No. 1 Kroth	SE ¹ / ₄ SW ¹ / ₄ NE ¹ / ₄ 12-33-3E	1,177	2,785	3,231	3,268
Time Petro. Co. No. 1 Murat	NW¼ NW¼ NE¼ 25-33-3E	1,166	2,801	3,337	3,353
*Russell Cobb No. 1 Thompson	SE¼ SW¼ SE¼ 17-33-4E	1,163	2,708	3,233	3,244
*Martin & Cash Drlg. Co. No. 1 Collinson	NE¼ NE¼ SW¼ 21-33-4E	1,156		3,164	3,177
*Earl F. Wakefield No. 1 Morris	SE1/4 SE1/4 SE1/4 33-33-4E	1,192	2,683	3,249	3,285
*Watson Drlg. Co., Inc. No. 1 Jarvis Ranch	NW Lot 8 7-34-8E	****	2,115	2,694	2,714
*Aladdin Petro. Corp. No. 1 Marshall	SE¼ NE¼ NW¼ 2-35-3E	1,127	2,815	3,413	3,465
*Alyward Drlg. Co. No. 1 Brandenburg	SE¼ NE¼ SW¼ 3-35-3E	1,128	2,829	3,428	3,455
*Aladdin Petro. Corp. No. 1 Tudhope	NW¼ NW¼ SE¼ 11-35-3E	1,162	2,835	3,424	3,474

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



at 25 barrels of oil per day. The Canfield pool, in "Bartlesville sand" between 3,375 and 3,379 feet, was found by the Aylward Drilling Company No. 1 Canfield well, NE¼ NW¼ sec. 13, T. 34 S., R. 3 E. The daily production of the well was rated at 13 barrels of oil. The Spencer and Tobias No. 1 Copeland well, NW¼ NE¼ sec. 5, T. 35 S., R. 4 E., is the discovery well of the Copeland pool. Production is from Mississippian limestone in a zone between 3,211 and 3,224 feet.

The Dutch Creek pool, in "Bartlesville sand" between 2,924 and 2,938 feet, was opened by the Helmerich and Payne No. 1 Stuckey well, NE1/4 NW1/4 sec. 35, T. 31 S., R. 4 E. The daily potential was rated at 2 barrels of oil. The Enterprise Northeast pool was found in "Bartlesville sand" between 3,335 and 3,347 feet, by the Helmerich and Payne No. 1 Wright well, NE¼ SE¼ sec. 35, T. 33 S., R. 3 E. Initial daily production was rated at 443 barrels of oil. The Crest Drilling Co. No. 1 Fussell well, NW 1/4 SE¼ sec. 14, T. 34 S., R. 3 E., is the discovery well of the Fussell pool. The producing zone is in "Bartlesville sand" between 3,348 and 3,360 feet. Initial daily production of the discovery well was rated at 50 barrels of oil. The Gibson South, a "Bartlesville sand" field, was opened by The Texas Company No. 1. L. M. Bryant well, SE¼ NW¼ sec. 32, T. 34 S., R. 3 E. Initial daily production of 80 barrels of oil was found between 3,383 and 3,388 feet. The field, opened in February, was combined with the Gibson later in the year. The Martin and Cash Drilling Company No. 1 Harvey well, NW1/4 NW1/4 sec. 23, T. 34 S., R. 3 E., opened the Harvey pool, in "Bartlesville sand" from 3,278 to 3,296 feet. The initial daily production of the discovery well was rated at 2,382 barrels of oil. The Harvey Northwest pool was discovered by the Smitherman and Cohen No. 1 Oglesbee well SW1/4 NE1/4 sec. 15, T. 34 S., R. 3 E. This was a maximum well (3,000 barrels of oil daily). The "Bartlesville sand" is between 3,298 and 3,318 feet. The Turner West pool produces from Mississippian limestone at a depth of 3,054 feet. It was discovered by the Cooperative Refinery Association No. 1 Abildgard well, SE1/4 NE1/4 sec. 25, T. 32 S., R. 5 E. The initial daily production of the well was 16 barrels of oil.

The Texas Company No. 2 Bryant "A" well found production in Mississippian rocks, a new producing zone in the Gibson South field (Table 7).



In addition to the field openers, 19 wildcats were abandoned as dry holes in Cowley County in 1952. Data on these dry wildcats are listed in Table 27. Drilling was active also in formerly established pools. Data on pool wells in the county are listed in Table 26.

Oil production in the various Cowley County fields is listed in Table 66. Gas production is listed in Table 67. Data on secondary recovery operations are listed in Table 1. Locations of areas in Cowley County that produced oil in 1952 and locations of secondary recovery projects are shown on Plate 1. New pools are listed in Table 6.

CRAWFORD COUNTY

(Map Pl. 1)

The 1952 production: oil from 7 fields, 47,097 barrels, gas 29,270 thousand cubic feet. Wells drilled in 1952 (reported): oil 3, input 2, total 5.

Developments during 1952.—Oil production in Crawford County declined somewhat in 1952. Reported gas production came from 19 commercial wells. Three oil wells and 2 water input wells were reported drilled in the McCune field. Oil production in the Crawford County fields is listed in Table 66 and gas production in Table 67. Statistics on secondary recovery operations in the county are included in Table 1. Locations of areas that produced oil in 1952 and of water-flooding projects are shown on Plate 1.

DECATUR COUNTY

(Map Fig. 4)

The 1952 production from 5 pools: oil 172,424 barrels. Wells drilled during 1952: oil 21, dry 21, salt-water disposal 1, total 43 including 11 wildcats. New pools discovered 4.

Developments during 1952.—Decatur County became one of the oil-producing counties in Kansas during 1951 with the discovery of the Jennings pool. The favorable recovery from this pool resulted in the drilling of 15 wildcat tests. Four of these opened new pools, the Adell Northwest, Feely, Hardesty, and Monaghan. The first to be found during 1952 was the Adell Northwest pool, opened by the Continental Oil Company on the George Gillespie farm in sec. 34, T. 5 S., R. 27 W., only a few miles northwest of the Adell pool in adjoining Sheridan County.



The oil occurs in the Lansing-Kansas City limestone between 3,632 and 3,686 feet. The discovery well was given a rating of 1,192 barrels of oil per day. During the year, 12 additional oil wells were completed in the pool, more than half of which have a potential capacity of more than 1,000 barrels of oil per day, one is a maximum, (3,000 barrel) well.

The Hardesty pool was discovered by Continental Oil Company on the Hardesty farm in sec. 22, T. 5 S., R. 27 W., in the same township as the Adell Northwest pool. The discovery well has been given a potential capacity of 844 barrels of oil per day from Lansing limestone at a depth of 3,642 to 3,658 feet. In May, the Continental Oil Company opened the Feely pool in sec 2, T. 5 S., R. 27 W., 5 miles north of the Adell Northwest. The company completed 2 more oil wells in the new pool during the year. The Monaghan pool was found by E. K. Carey on the Monaghan farm in sec. 15, T. 2 S., R. 27 W. The discovery well has a rating of 24

TABLE 28.—Dry wildcat tests drilled in Decatur County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
*Sauvage & Dunn Drlg. Co., Inc. No. 1 Foley	SW¼ SE¼ NW¼ 5-1-27W	2,650	3,390	3,704‡	3,714
J. M. Huber Corp. No. 1 Railsback	SE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ 5-2-26W	2,583	3,405	3,735‡	3,790
*Brooks Hall & Strain Drlg. Co. No. 1 Odle	NW¼ NW¼ SE¼ 14-2-26W	2,508	3,335	3,742	3,833
Musgrove Petro. Corp. No. 1 Mines	SE¼ SE¼ SW¼ 11-2-30W	2,775	3,755	4,266	4.320
Anderson-Prichard Oil Corp. No. 1 Wennihan	SE¼ SE¼ NE¼ 7-3-26W	2,578	3,525	3,903	3,995
Franco Central Oil Co. No. 1 Rudogph Pachner	SE ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ 28-3-28W	2,739	3,753	4,284	4,310
*A. C. Swain No. 1 W. Lauda	SE¼ SE¼ SE¼ 4-4-27W	2,643	3,570	3,995	4,040
Sauvage & Dunn Drlg. Co., Inc. No. 1 Simpson	NE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ 4-5-26W	2,607	3,631	4,015	4,070
*Sauvage & Dunn Drlg. Co., Inc. et al. No. 1 Thieson	NW ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ 11-5-26W	2,613	3,668	4,038	4,100
Lohmann & Johnson Drlg. Co., Inc. No. 1 Johnson	NW¼ NW¼ SW¼ 10-5-28W	2,694	3,886	4,498	4,509
E. K. Carey No. 1 Wachendofer	NE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ 35-5-29W	2,814	3,945	4,516†	4,525

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

Depth to the top of the granite wash, feet.

Depth to the top of the Viola, feet.

barrels of oil per day from the Lansing limestone from 3,514 to 3,569 feet.

Four of the 11 dry wildcat tests put down in the county during the year reported oil-cut mud. The important marker horizons encountered in drilling these tests are given in Table 28. The locations of the producing pools and dry wildcat tests are shown on Figure 4. Oil production is given in Table 66, and the new pools are listed in Table 6.

DICKINSON COUNTY

(Map Pl. 1)

The 1952 production from 4 fields: oil 108,313 barrels. Wells drilled in 1952 (reported): oil 2, dry 3, total 5 including 1 wildcat.

Developments during 1952.—Two new oil wells and one dry hole were added to the Lost Springs Northeast field. A dry hole was drilled in the Lost Springs field. One dry wildcat well was drilled in the county. It is the Sterling Drilling Company et al. No. 1 Hill well, NW¼ NE¼ NW¼ sec. 34, T. 14 S., R. 3 E., which was drilled to a total depth of 2,365 feet. The surface elevation of the well is 1,365 feet and the top of Mississippian "chat" was reported at 2,292 feet.

Oil production in the Dickinson County fields is listed in Table 66. Locations of areas that produced oil in 1952 are shown on Plate 1.

DOUGLAS COUNTY

(Map Pl. 1)

The 1952 production: oil from 1 field 1,580 barrels (estimated); gas no commercial production reported from 2 fields.

Developments during 1952.—Oil production in Douglas County is in the Baldwin field in the southeast part of the county. Small amounts of gas were produced for local rural consumption in the Lawrence and Eudora fields.

Oil production is listed in Table 66 and the area that produced oil in 1952 is shown on Plate 1.

EDWARDS COUNTY

(Map Fig. 10)

The 1952 production from 2 pools: oil 23,810 barrels, gas 213,093 thousand cubic feet. Wells drilled in 1952: oil 1, gas 2, dry 7, total 10, including 5 wildcats.



TABLE 29.—Dry wildcat tests drilled in Edwards County during 1952

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Viola, feet	Depth to top of Arbuckle, feet	Total depth. feet
Kenneth A. Ellison No. 1 Duddle	NE¼ NE¼ NE¼ 8-24-16W	3,791	4,324	4,519	4,550
Armer Drlg. Co., Inc. No. 1 Elmore	SE¼ SE¼ NW¼ 25-24-16W	3,805	4,337	4,607	4,680
D. R. Lauck Oil Co., Inc. No. 1 Johnson	NE¼ NE¼ SW¼ 1-25-17W	3,916	4,513	4,772	4,825
Natl. Assoc. Petro. Co. No. 1 Madden	C. SW¼ NW¼ 13-26-18W	4,045	4,656	4,810	4,966
Virginia Drlg. Co., Inc. et al. No. 1 T. A. Smith	NE¼ NE¼ NE¼ 27-26-18W	4,086	4,707	4,962	4,995

Developments during 1952.—Oil production increased about 5,000 barrels, while gas production dropped about one-third.

Two new gas wells were completed in the **Bradbridge** pool in the northeastern corner of the county by M. B. Armer. Both wells obtain production from the Lansing limestone at about 3,755 feet depth. One is rated at 8 million and the other at 9 million cubic feet per day. The new oil well in the same pool was drilled by Max Cohen on the Klein lease in sec. 2, T. 24 S., R. 16 W.

The oil and gas producing areas and dry wildcat tests are shown on Figure 10. Important marker horizons encountered in drilling the dry wildcat tests are listed in Table 29. Oil production is given in Table 66, gas production in Table 67.

ELK COUNTY

(Map. Pl. 1)

The 1952 production: oil from 23 fields 175,746 barrels including approximately 17,042 barrels from secondary recovery projects, gas 292,081 thousand cubic feet. Wells drilled in 1952 (reported): dry 8, input 3, total 11.

Developments during 1952.—Oil production in Elk County remained about stationary in 1952. The eight dry holes reported in established fields are Collyer 1, Fleming 3, Love 1, Mills 1, Schade 1, and Starr 1. Three water input wells were reported in the **New Albany** field.

Oil production in the various Elk County fields is listed in Table 66 and gas production in Table 67. Water-flooding activities are listed in Table 1. Locations of areas that produced oil in 1952 are shown on Plate 1.



ELLIS COUNTY

(Map Fig. 7)

The 1952 production from 75 pools: oil 11,070,399 barrels. Wells drilled in 1952: oil 158, gas none, dry 151, salt-water disposal 9, total 318 including 33 wildcats. New pools discovered 16, revived 1, pools combined 3.

Developments during 1952.—Oil production in Ellis County decreased about 5 percent during 1952; however, the county maintained its position as third largest oil-producing county in the State. No commercial quantities of gas were reported. The number of new wells drilled during 1952 exceeds the total for 1951 by about 23 percent. Among the wildcats, 16 were successful in finding new pools, making the county also third in the number of new discoveries during 1952. They are: Antonino Townsite East, Bielman, Emmeram Townsite, Experiment, Giinther, Hertel, Hertel Southwest, Jensen, Nicholson North, Pleasant Northwest, Raynesford, Raynesford East, Rome, Sessin, Sunnydale, and Ubert Northwest. The Weisner pool was revived. Ten of the new pools produce oil from the Arbuckle dolomite.

TABLE 30.—Dry wildcat tests drilled in Ellis County during 1952

Company and farm	Location	Depth to top of LansK.C., feet	top of	Total depth, feet
*Natl. Coop. Ref. Assn. No. 2 Cave	NW¼ NW¼ SE¼ 8-11-18W	3,256	3,657	3,706
*J. W. Barden Drlg. Co. No. 1 Zerfas	SW¼ SW¼ SE¼ 31-11-19W	3,421	3,763	3,797
Walters Drlg. Co. No. 2 Cromb	SE¼ SW¼ NW¼ 22-11-20W	3,438	3,755	3,775
Herndon Drlg. Co. No. 1 Davis "B"	SE¼ NE¼ NW¼ 25-11-20W	3,309	3,622	3,678
Brunson Drlg. Co., Inc. et al. No. 1 Hoff	SE¼ SE¼ NW¼ 18-12-16W	3,262	3,557	3,621
*Alpine Oil & Royalty Co. No. 1 Weigel	NE¼ NE¼ NE¼ 30-12-16W	3,298	3,566	3,580
Brunson Drlg. Co. et al. No. 1 Anna Leinmiller	NE¼ NE¼ SW¼ 2-12-19W	3,419	3,699	3,750
Braden Drlg. Co. No. 1 Spreen	SW¼ SW¼ NE¼ 8-12-19W	3,452	3,750	3,798
John Lindas Oil, Inc. No. 1 Hagen	NW¼ NW¼ NE¼ 18-12-19W	3,545	3,852	3,969
John Lindas Oil, Inc. No. 1 Nickols Trust	NW ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ 19-12-19W	3,523	3,883	3,920
Shelley-Miller Drlg., Inc. No. 1 Dreiling	NE¼ NE¼ NE¼ 27-12-19W	3,485	3,823	3,873

TABLE 30.—Dry wildcat tests drilled in Ellis County during 1952, concluded

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
Victor Drlg., Inc. No. 1 Dortland	SW¼ SW¼ NW¼ 26-13-16W	3,187	3,526	3,556
*Graham-Messman-Rinehart Oil Co. No. 1 Riemsnyder	NW¼ NW¼ NW¼ 4-13-18W	3,492	3,848†	3,867
*Stearns Drlg. Co. et al. No. 1 Fellers	NE¼ NE¼ SE¼ 10-13-18W	3,490	3,802	3,889
*Petroleum, Inc. No. 1 Braun "A"	NE¼ NE¼ SW¼ 15-13-18W	3,434	3,784	3,810
*Virginia Drlg. Co. et al. No. 1 Brull	SW¼ SW¼ SW¼ 19-13-18W	3,344	3,668	3,717
*Jones, Shelburne & Farmer Inc. No. 1 Middlekauf	NE¼ NE¼ NW¼ 5-13-19W	3,462	3,803	3,843
*Sitrin & Murfin et al. No. 1 Sack	SW¼ SW¼ NE¼ 13-13-19W	3,373	3,681	3,711
Graham-Messman-Rinehart Oil Co. No. 1 Jacques	SW¼ SW¼ NE¼ 10-13-20W	3,424	3,724‡	3,805
Imperial Drlg. Co. No. 1 Flax	SW¼ SW¼ SW¼ 20-13-20W	3,590	3,972	3,991
Carl Todd Drlg. Co. No. 1 Boos	NE¼ NE¼ SE¼ 31-13-20W	3,560	3,902	3,923
Imperial Drlg. Co. No. 1 Kroeger	NE¼ NE¼ NE¼ 31-13-20W	3,583	3,940	3,988
*Natl. Coop. Ref. Assn. No. 1 Robbin	NW¼ NE¼ SW¼ 11-14-16W	3,160	3,435	3,485
John Lindas Oil, Inc. No. 1 Strecklein "A"	SE¼ SE¼ SW¼ 28-14-18W	3,356	3,692	3,783
Brunson Drlg. Co. et al. No. 1 Rose B. Ward	SW¼ SW¼ NE¼ 31-14-19W	3,414	3,768	3,828
Imperial Drlg. Co. No. 1 Gabel	NE¼ NE¼ NE¼ 5-14-20W	3,609	3,973	4,010
Keystone Petro., Inc. No. 1 Jenny Lee	SE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ 25-14-20W	3,433	3,765	3,842
Todd Drlg. Co. et al. No. 1 Schmidtberger	NE¼ NE¼ NW¼ 15-15-16W	3,202	3,504	3,551
Anderson-Prichard Oil Corp. No. 1 Arnold	NW¼ NW¼ NW¼ 17-15-16W	3,214	3,512	3,523
*Murfin & Oil Trading Corp. No. 1 Philip	SW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ 4-15-17W	3,249	3,527	3,544
Musgrove Petro. Corp. No. 1 Kippes	SW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ 13-15-17W	3,249	3,538	3,595
The Texas Company No. 1 Urban	NW ¹ / ₄ NW ¹ / ₄ SW ¹ / ₄ 11-15-19W	3,328	3,670	3,738
*Barnett Drlg., Inc. et al. No. 1 Philip	SW ¹ / ₄ SW ¹ / ₄ SW ¹ / ₄ 3-15-20W	3,362	3,742	3,765

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

[†] Depth to the top of the weathered Arbuckle, feet.

[‡] Depth to the top of the Pennsylvanian basal conglomerate, feet.

1 from the Pennsylvanian basal conglomerate, and 5 from the Lansing-Kansas City limestone sequence.

During the year new producing zones were found in both new and older pools. The three main producing zones in this county in order of importance are the Arbuckle dolomite, the Lansing-Kansas City limestone, and the Pennsylvanian basal conglomerate. Where one of them is productive often one or both of the others is also productive. New producing zones discovered during the year are listed in Table 7.

The following pool consolidations took place during 1952: Irvin North and Irvin Northeast with Irvin; and Christina with Emmeram Northeast.

Old wells worked over provided 13 oil wells, 6 dry holes, and 8 salt-water disposal wells. Seven locations were abandoned during 1952.

Only one of the 33 dry wildcat tests did not penetrate the Arbuckle dolomite; 22 reported no shows of oil or gas. The wildcat test in the abandoned **Cromb** pool recovered only salt-water from a drill-stem test in the Arbuckle dolomite.

In the **Solomon** pool, three times as many new oil wells were added to the pool as dry holes. The **Irvin** pool, including the combinations, added 14 oil wells and 6 dry holes.

Pertinent geological information was furnished by some of the salt-water disposal wells. The Westgate-Greenland No. 4 Day well in sec. 8, T. 11 S., R. 17 W. found more than 520 feet of Arbuckle dolomite. The Shell Oil Company No. 2 Rumsey "W" well in sec. 23, T. 11 S., R. 17 W. penetrated nearly 540 feet of Arbuckle before entering Pre-Cambrian granite at 3,884 feet. The B & R Drilling Company No. 5 Stackhouse "A" well in sec. 23, T. 12 S., R. 18 W. found almost 500 feet of Arbuckle dolomite. In the Irvin pool, The Texas Company No. 3 Riedel well in sec. 31, T. 13 S., R. 19 W. found only 137 feet of Arbuckle dolomite, entering Pre-Cambrian granite at 4,052 feet. In the southwestern part of Ellis County, the Arbuckle ranges in thickness from 20 to 50 feet and rests upon the Lamotte sandstone.

Pertinent information on the new Ellis County oil pools is found in Table 6. Locations of producing areas and dry wildcat tests are shown on Figure 7. Dry wildcat tests made during 1952 are listed in Table 30. Oil production by pools is given in Table 66.



ELLSWORTH COUNTY

(Map Fig. 6)

The 1952 production from 14 pools: oil 3,856,505 barrels, gas 40,446 thousand cubic feet. Wells drilled in 1952: oil 39, dry 55, salt-water disposal 3, total 97 including 8 wildcats. New pools discovered 2, combined 1.

Developments during 1952.—During 1952 oil production dropped slightly, gas production decreased more than one-half, and drilling activity dropped off almost 10 percent from 1951. Two new pools, the Andrews and the Maes, were found. In the Andrews pool, the El Dorado Refining Company No. 1 Andrews well in sec. 4, T. 17 S., R. 8 W. found oil in the Arbuckle dolomite. This pool lies just north of the Edwards pool. The Maes pool, in sec. 26 of the same township, was discovered by the E. K. Carey Drilling Company No. 1 Maes well which produces oil from Arbuckle dolomite at a depth of 3,341 feet. Further information on these two pools is given in Table 6. In the Heiken pool, the Lansing-Kansas City strata was added as a new producing zone by Skelly Oil Company with the completion of a 50 barrel per day well. Additional data on this new producing zone are given in Table 7.

The **Edwards** and **Edwards North** pools were combined during 1952.

TABLE 31.—Dry wildcat tests drilled in Ellsworth County during 1952

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Penn. basal congl., feet	Depth to top of Arbuckle, feet	Total depth. feet
*Coffman, Blair & Ward No. 1 Westerman	SE½ NE¼ NW¼ 15-16-8W	2,573		2,971	3,070
*Bay Petro. Corp. No. 1 Wilkens	N½ NE¼ SW¼ 1-16-9W	2,755	3,097	3,142	3,173
*Musgrove Petro. Corp. No. 1 Valenta	NE¼ NE¼ SW¼ 7-16-9W	3,006	3,332	3,573	3,609
*Musgrove Petro. Corp. No. 1 Roelfs	NE ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ 21-16-9W	3,011	3,380	3,626	3,641
*Hinkle Oil Co. No. 1 Becker	NE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ 35-16-9W	2,843	3,188	3,283	3,291
*Stag Drlg. Inc. No. 1 Hokr	NE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ 1-17-8W	2,813	3,204	*****	3,440
*Dozier Oil Co. No. 1 Wilkens	SW¼ SW¼ NE¼ 5-17-9W	2,956	3,273	3,384	3,396
*Dozier Oil Co. No. 1 Ehrhorn	SE ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ 9-17-9W	2,916		*******	3,120

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



Most of the drilling activity during the year was concentrated in T. 17 S., Rs. 8 and 10 W., in the Edwards and Stoltenberg pools. The Stoltenberg pool added 10 extension oil wells and the Edwards 3. In the new Maes pool 14 oil wells (including the discovery well) were completed. Eight of these were given maximum initial potentials (3,000 barrels of oil per day.)

In the Stoltenberg pool, the National Cooperative Refinery Association No. 5 Harbacek well in sec. 7, T. 16 S., R. 10 W. found almost 500 feet of Arbuckle dolomite; Pre-Cambrian granite was reached at 3,827 feet depth. The Artnell Drilling Company No. 4 Stoltenberg "B" well in sec. 36, T. 16 S., R. 10 W. found more than 400 feet of Arbuckle dolomite, entering Pre-Cambrian granite at 3,798 feet.

Data on dry wildcat tests are given in Table 31. Locations of producing areas and dry wildcat tests are shown on Figure 6. Data on oil production are given in Table 66, and gas production in Table 67.

FINNEY COUNTY

(Map Pl. 2)

The 1952 production from 6 pools: oil 197,589 barrels; gas production of the Hugoton Area is not segregated as to counties, other gas 56,839 thousand cubic feet. Wells drilled in 1952: oil 5, gas 50, dry 3, total 58 including 2 wildcats. New pools discovered 4.

Developments during 1952.—Although oil production showed a slight decline, drilling activity more than doubled during 1952. Four new oil pools were found during the year. They are the Beyer, Damme South, Sonderegger, and Stewart pools. The Beyer pool is within the Hugoton Gas Area about 10 miles south of Garden City in sec. 24, T. 26 S., R. 33 W. The W. J. Coppinger No. 1 Beyer well found oil in the Lansing-Kansas City limestone between depths of 4,398 and 4,406 feet. The discovery well is capable of yielding 191 barrels per day. The **Damme South** pool, 9 miles northwest of Garden City in sec. 28, T. 22 S., R. 33 W., produces from Mississippian strata between 4,767 and 4,776 feet. The discovery well has been rated at 244 barrels of oil per day. Cooperative Refinery Association found oil in the Mississippian strata between 4,737 and 4,748 feet on the Sonderegger farm in sec. 21, T. 22 S., R. 31 W., 12 miles east of the Damme South pool. The rated potential of the well is 295 barrels per day. A few miles



northeastward the Cooperative Refinery Association opened the Stewart pool on the Stewart farm in sec. 6, T. 23 S., R. 30 W. The oil occurs in Mississippian rocks from 4,738 to 4,744 and 4,817 to 4,825 feet.

The Shell Oil Company wildcat test 22 miles northeast of Garden City on the Bauman farm in the NE¼ NE¼ NE¼ sec. 4, T. 22 S., R. 29 W., reached a total depth of 5,347 feet. From an elevation above sea level of 2,661 feet, the following marker horizons were encountered: Topeka limestone, 3,560; Lansing-Kansas City group, 3,890; Mississippian strata, 4,570; Viola dolomite, 5,046; and Arbuckle dolomite, 5,222 feet depth. Several drill-stem tests were taken, but no shows were reported.

B & R Drilling Company and National Cooperative Refinery Association drilled to the Mississippian rocks on the O'Brien lease in the SE¼ SE¼ SE¼ sec. 13, T. 21 S., R. 34 W. about 1½ miles from the **Nunn** pool. Shows of gas were found from 2,553 to 2,609 feet depth in the Herington limestone.

Of the 50 new gas wells completed in the county during 1952, 49 were in the Hugoton Gas Area. The other gas well is in the **Damme** pool in sec. 21, T. 22 S., R. 33 W.

Finney County wells are shown on Plate 2. Information on the four new oil pools is given in Table 6. Oil production is given in Table 66, and gas production is listed under Finney County and Hugoton in Table 67. Additional information on the Hugoton Gas Area is reported in the chapter on natural gas.

FORD COUNTY

The 1952 production from 1 pool: oil 1,938 barrels, gas none reported. Wells drilled in 1952: 5 wildcats.

Developments during 1952.—With one exception all the wild-cats drilled during 1952 tested only the rather porous dolomitic limestone of the Warsaw formation which here lies near the top of the Mississippian System. Table 32 gives the location and the important geologic tops of the wildcat wells. The deep test, drilled by the Deep Rock Oil Corporation on the Raymond farm in sec. 21, T. 29 S., R. 25 W. encountered below the Mississippian, Viola dolomitic limestone, 6,299; Simpson clastic rocks, 6,434; and Arbuckle dolomite, 6,468 feet. Drill-stem tests found only salt water.



		_			
Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Mis- sissipplan, feet	Total depth, feet
Graham-Messman-Rinehart Oil Co. No. 1 Hattrup	NW¼ NW¼ NE¼ 23-26-21W	2,280	4,152	4,812	4,851
Deep Rock Oil Corp. et al. No. 1 H. A. Kinkaid	NW¼ NE¼ SE¼ 34-26-26W	2,570	4,256	4,986	5,465
*I. W. Siegel et al. No. 1 Dinkela	NE¼ NE¼ NW¼ 21-27-23W	2,405	4,274	4,999	5,100
Deep Rock Oil Corp. No. 1 Raymond	NW¼ SW¼ NW¼ 21-29-25W	2,599	4,460	5,232	6,501
I. W. Siegel et al. No. 1 Lutz	SW¼ SW¼ NE¼ 23-29-26W	2,536	4,326	5,063	5,105

TABLE 32.—Dry wildcat tests drilled in Ford County during 1952

Early in 1953, a successful gas well was completed by Armer on the Helmers farm in sec. 25, T. 28 S. R. 21 W. The capacity of the new well is nearly 2 million cubic feet per day from upper Mississippian rocks at a depth of 5,024 to 5,040 feet.

Data on oil production are given in Table 66.

FRANKLIN COUNTY (Map Pl. 1)

The 1952 production from 9 areas in 2 fields: oil 406,698 barrels, including approximately 377,877 barrels from water-flooding projects. Wells drilled in 1952 (reported): oil 63, input 25, dry 1 (wildcat), total 89.

Developments during 1952.—The total oil production in Franklin County increased considerably in 1952. Most of the drilling was done in connection with water-flooding activities in the eastern part of the county. One dry wildcat, the E. L. Edwards No. 1 Cramer well, in the SW¼ SW¼ SW¼ sec. 26, T. 16 S., R. 18 E., was drilled to a total depth of 1,410 feet. The top of Mississippian limestone was reached at 1,340 feet.

Data on water-flooding projects in Franklin County are listed in Table 1. Oil production in the various areas is listed in Table 66. Areas that produced oil and secondary recovery operations are shown on Plate 1.



^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

GEARY COUNTY

Wildcat wells have been drilled from time to time in Geary County, but so far no producing pool has been found.

Exploration during 1952.—According to Geological Survey records only 15 tests have been drilled in Geary County (Jewett, 1949, p. 175; Ver Wiebe and others, 1940, p. 60) previous to 1952. Three tests were drilled in 1952.

The F. G. Holl No. 1 Smiley well, in the NE¼ NE¼ SW¼ sec. 7, T. 12 S., R. 7 E., was drilled to a depth of 2,362 feet in October 1952. Tops reported are Lansing, 1,454; conglomerate, 1,950; Mississippian limestone, 1,984; Kinderhookian, 2,092; and "Hunton" limestone, 2,262 feet. The surface elevation is 1,429 feet. The F. G. Holl et al. No. 1 Eseli well, in the NW¼ NW¼ SE¼ sec. 24, T. 12 S., R. 7 E., was abandoned as a dry hole at a total depth of 2,656 feet. From a surface elevation of 1,280 feet, the top of the Lansing rocks was reached at 1,324 feet, Mississippian limestone at 1,830 feet, base of Mississippian limestone at 1,925 feet, top of "Hunton" limestone at 2,096 feet, top of Viola limestone at 2,441 feet, top of Simpson group at 2,559 feet, and top of the Arbuckle rocks at 2,605 feet.

The third 1952 test in Geary County is the F. G. Holl No. 1 Poole well, in the NE¼ NE¼ SE¼ sec. 7, T. 12 S., R. 8 E. The total depth is 2,167 feet. From a surface elevation of 1,259 feet the top of Lansing rocks was reached at 1,295 feet, conglomerate at 1,753 feet, Mississippian limestone at 1,801 feet, and top of the "Hunton" limestone at 2,101 feet.

GOVE COUNTY

(Map Fig. 9)

The 1952 production from 7 pools: oil 26,501 barrels. Wells drilled in 1952: oil 5, dry 16, total 21 including 12 dry wildcats. New pools discovered 4.

Developments during 1952.—Despite limited exploratory drilling, four new oil pools were found in Gove County during 1952. One of the new pools, the **Beougher**, was found by the Skiles Oil Corporation No. 1 Beougher well in sec. 8, T. 13 S., R. 30 W. The top of the Lansing was found at 3,808 feet, but good porosity with oil saturation was not found until between 4,079 and 4,082 feet. The well was completed as a producer with a capacity of 4 barrels per day. The Skiles Oil Corporation No. 1 Lundgren well in sec.



30, T. 14 S., R. 29 W., failing to find oil in Pennsylvanian rooks, was drilled into the Mississippian where production was found. In the next mile south of the Lundgren pool, Wycoff and Williams completed a well on the Lundgren farm to open the Lundgren South pool. Here oil was found in the Mississippian between 4,277 and 4,283 feet. Initial potential was rated at 236 barrels per day. An old well was worked over by D. R. Lauck on the Jones farm in sec. 9, T. 15 S., R. 31 W., to open the Pyramids pool. The test failed to find oil in the Mississippian rocks and was therefore plugged back to a good showing in the Marmaton limestones between the depths of 4,280 and 4,290 feet. A pumping potential of 150 barrels per day was established. The test was drilled to a depth of 5,027 feet (700 feet below the top of the Mississippian) before being plugged back.

Five of the 12 dry wildcats had shows of oil or gas. The test drilled by Ben Brack on the Graham farm in sec. 26, T. 12 S.,

TABLE 33.—Dry wildcat tests drilled in Gove County during 1952

Company and farm	Location	Depth to top of Heebner, feet	Depth to top of LansK.C., feet	Depth to top of Mis- sissippian, feet	Total depth, feet
*Ben F. Brack Oil Co., Inc. No. 1 Graham	NE¼ NE¼ NW¼ 26-12-28W	3,845	3,875	4,500	4,776
Graham-Messman-Rinehart Oil Co. No. 1 Lameroux	NW¼ NW¼ SE¼ 8-12-29W	3,891	3,929	4,490	4,600
Musgrove Petroleum Corp. No. 1 Wilson	NW¼ NW¼ NW¼ 16-12-30W	3,886	3,929	4,489	4,600
Skiles Oil Corp. No. 1 Peirano	SE¼ SE¼ SE¼ 27-13-27W	3,740	3,781	4,370	4,487
*Prime Drlg. Co. et al. No. 1 Mendenhall	SW¼ SW¼ NE¼ 16-13-28W	3,759	3,799	4,396	4,550
B & R Drilling, Inc. No. 1 Johnson	NW¼ NW¼ NW¼ 31-13-28W	3,805	3,843	4,429	4,582
Skiles Oil Corp. et al. No. 1 Hefner	NE¼ NE¼ NE¼ 13-14-28W	3,697	3,737	4,317	4,469
C. L. Carlock No. 1 Coberly	NW¼ NW¼ NW¼ 26-14-28W	3,700	3,738	4,346	4,468
*D. R. Lauck Oil Co., Inc. No. 1 Sharp	NW¼ NW¼ NW¼ 11-14-31W	3,880	3,923	4,562	4,667
Skiles Oil Corp. et al. No. 1 Bruney	SW¼ SW¼ SE¼ 22-15-29W	3,640	3,678	4,296	4,487
Skiles Oil Corp. No. 1 Ikenberry	SE¼ SE¼ NE¼ 12-15-30W	3,590	3,625	4,263	4,387
*LaFayette Oil Co. No. 1 Wier Nichols	NW¼ NW¼ NW¼ 21-15-31W	3,750	3,792	4,412	4,620

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



R. 28 W. found Mississippian chert at 4,500 feet, Viola limestone at 4,694 feet, and Arbuckle dolomite at 4,740 feet, before it was abandoned as a dry hole. All other wildcat tests ended in Mississippian rocks (did not test the Arbuckle dolomite).

The dry wildcat tests are described in Table 33, and the new pools are listed in Table 6. The new pools and dry wildcat tests are shown on Figure 9. Production data on the Gove County pools are listed in Table 66.

GRAHAM COUNTY

(Map Fig. 4)

The 1952 production from 33 pools: oil 3,910,297 barrels, gas 11,225 thousand cubic feet. Wells drilled in 1952: oil 54, dry 112, salt-water disposal 1, total 167 including 40 wildcats. New pools discovered 9, revived 1, combined 2, abandoned 1.

Developments during 1952.—Oil production increased about 300,000 barrels over the previous year, but drilling decreased about 18 percent. Gas production from the Law pool was reported for the first time.

Wildcat exploration resulted in the discovery of nine new pools. They are in alphabetical order: the Alda West, Bass Southwest, Dorman, Mickleson, Noah, Schmied, Schmied North, Schnebly, and White. The Alda pool which has not been active for some years was abandoned early in the year, then was revived when the Murfin Drilling Company finished its test on the Davis farm in sec. 15, T. 7 S., R. 22 W. as a producer from the Lansing-Kansas City limestones. All the new pools except the Mickleson, Noah, and the White which produce from the Arbuckle dolomite derive their oil from the Lansing-Kansas City. Before the end of the year, the Bass and Bass Southwest pools were merged with the Cooper pool. The Lansing-Kansas City rocks were added as a new producing zone in the Noah and Smith-Denning West pools.

Forty dry wildcat tests were drilled in Graham County during 1952. The sequence of beds in this county is now well known. The Pennsylvanian rocks rest directly upon the Arbuckle dolomite in the northern and eastern parts of the county, but toward the southwest the Mississippian rocks and Ordovician rocks younger than the Arbuckle are found.



With the combining of the adjacent pools to the **Cooper** pool, 19 extension wells were added during the year. The **Morel** pool, with 7, was second.

The 9 new pools and 1 revived pool are described in Table 6. The 2 new producing zones in established pools are listed in Table 7. The 40 dry wildcats, the largest number of such wells drilled in a single county during the year, are listed and described in Table 34. The producing pools and dry wildcat tests are shown on Figure 4. Oil production from the county is reported in Table 66, gas in Table 67.

TABLE 34.—Dry wildcat tests drilled in Graham County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth feet
The Texas Company No. 1 Goff	SW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ 20-6-21W	2,275	3,544	3,810	3,8.1
*Empire Drilling Co. No. 1 Muir	NW¼ NW¼ NW¼ 18-6-25W	2,553	3,656	4,069	4,122
Keating Drilling Co. No. 1 Minnie McKisson	NE¼ NW¼ SE¼ 5-7-21W	2,177	3,430	3,687	3,740
Mid Plains Oil Corp. No. 2 Napue	SE¼ SE¼ SW¼ 11-7-21W	2,134	3,382	3,637	3,693
Keating Drilling Co. No. 1 W.K.I.T. School	SE¼ SE¼ SE¼ 33-7-21W	2,068	3,321	3,616	3,655
Anschutz Drilling Co., Inc. No. 1 Gibb	NE¼ NE¼ NE¼ 2-7-22W	2,250	3,502	3,835	3,885
Keating Drilling Co. No. 1 Worcester	NW¼ NW¼ NE¼ 12-7-22W	2,248	3,492	3,768	3,802
Murfin Drilling Co. et al. No. 1 Wallace	SE¼ SE¼ NE¼ 24-7-22W	2,157	3,395	3,709	3,740
Murfin Drilling Co. et al. No. 1 Zeman "C"	NE¼ SE¼ NE¼ 26-7-22W	2,243	3,480	3,879	3,891
*D. G. Hansen No. 1 Jones	NE¼ NE¼ NE¼ 34-7-22W	2,168	3,409	3,754	3,763
*Empire Drilling Co. No. 1 Waggoner	SW1/4 SW1/4 SW1/4 4-7-23W	2,458	3,747	4,176	4,235
The Texas Company No. 1 R. J. Wolf	SE¼ SE¼ SE¼ 13-7-23W	2,289	3,547	3,916	3,955
Anschutz Drilling Co., Inc. No. 1 R. Michaells	NE¼ NE¼ NE¼ 32-7-23W	2,391	3,694	4,148	4,180
*Empire Drilling Co. No. 1 E. P. Goddard	NW¼ SW¼ NW¼ 21-7-24W	2,426	3,692	4,284	4,335
*Nadel & Gussman No. 1 Paxton	SW 1/4 SW 1/4 SW 1/4 22-7-24W	2,414	3,701	4,189	4,260
*Prime Drlg. Co. et al. No. 1 Lindenman	SW¼ SW¼ SE¼ 5-7-25W	2,549	3,695	4,201	4,251
Herndon Drilling Co. No. 1 Keith	NW¼ NW¼ SE¼ 24-7-25W	2,514	3,770	4,376	4,387

TABLE 34.—Dry wildcat tests drilled in Graham County during 1952, concluded

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth. feet
Prime Drlg. Co. et al. No. 1 Gosselin	SE¼ SE¼ NW¼ 5-8-21W	2,064	3,284	3,623	3,648
*Taxman Oil Co. No. 1 Calhoun	SW¼ SW¼ SE¼ 18-8-21W	2,056	3,294	3,644	3,660
Veeder Sup. & Dev. Co. No. 1 Guilleaume	SW1/4 SW1/4 SW1/4 34-8-21W	2,142	3,347	3,716	3,750
Hay Drilling Co. No. 1 Dickey	NE¼ NE¼ NW¼ 35-8-21W	2,116	3,372	3,707	3,735
Harry Gore & Veeder Sup. Co. No. 1 Gordon	NW¼ NW¼ NW¼ 1-8-22W	2,170	3,395	3,778	3,800
Keating Drilling Co. No. 1 Gosselin	NW¼ NW¼ SW¼ 24-8-22W	2,146	3,389	3,711	3,753
Harry Gore & Veeder Sup. Co. No. 1 Griffith	NE¼ NE¼ SW¼ 2-8-23W	2,253	3,521	3,902	3,955
Harry Gore & Veeder Sup. Co. No. 1 Hill City	NW¼ NW¼ NE¼ 12-8-23W	2,208	3,477	3,894	3,930
S. A. Berwick Drlg. Co. No. 1 Sandbar	SE¼ SE¼ SW¼ 13-8-23W	2,121	3,382	3,780	3,836
Empire Drlg. Co. & Harry Gore No. 1 Brinkmeyer	SE¼ SE¼ SW¼ 19-8-23W	2,267	3,634	4,200	4,250
Prime Drilling Co. et al. No. 1 Goddard	SE¼ SE¼ SE¼ 7-8-24W	2,378	3,727	4,385	4,475
*Peel-Hardman Oil Producers No. 1 Gates	NE¼ NW¼ SE¼ 23-8-24W	2,240	3,592	4,217	4,254
The Texas Company No. 1 B. A. Fox	NW¼ SE¼ SW¼ 29-8-24W	2,336	3,695	4,352	4,400
*Empire Drilling Co. No. 1 H. Madden	SW1/4 SW1/4 SW1/4 8-8-25W	2,431	3,749	4,445	4,479
*I. W. Siegel No. 1 Engleman	SW¼ SW¼ SE¼ 24-8-25W	2,340	3,659		4,250
*Peel-Hardman Oil Pro- ducers No. 1 Setchell	NE¼ NW¼ NE¼ 34-8-25W	2,484	3,788	4,480	4,528
Jones, Shelburne & Farmer, Inc. No. 1. St. Peter	NE¼ NE¼ NE¼ 1-9-21W	2,094	3,351	3,727	3,757
Murfin Drilling Co. No. 1 Farrell	NE¼ NE¼ NW¼ 32-9-22W	2,359	3,619	4,017	4,035
The Palmer Oil Corp. No. 1 Robinson	NE¼ NE¼ NE¼ 17-9-23W	2,412	3,747	4,274	4,300
Keating Drilling Co. No. 1 Minium	SE¼ SE¼ SW¼ 15-9-25W	2,594	3,904	4,623	4,654
Jones, Shelburne & Farmer, Inc. No. 1 Noah "F"	NE¼ NE¼ SE¼ 32-10-21W	2,205	3,525	3,859	3,890
*Natl. Coop. Ref. Assn. No. 1 Griffith	NE¼ NE¼ NE¼ 16-10-22W	2,258	3,542	3,966	4,031
Musgrove Petro. Corp. No. 1 Wolf	SE¼ SE¼ SW¼ 18-10-25W	2,540	3,799	4,478	4,5 50

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



GRANT COUNTY

(Map Pl. 2)

The county lies entirely within the Hugoton Gas Area, the production of which is not segregated as to counties. No oil produced. Wells drilled in 1952; total 29 (all gas).

Developments during 1952.—Drilling activity during the year dropped off slightly more than 50 percent from the previous year. Almost all the available drilling sites are occupied. By townships the heaviest concentration of drilling was in Ts. 27 and 29 S., R. 37 W. The new wells are indicated on Plate 2.

Some of the 1952 gas wells show very large potentials. One well drilled by the Columbian Fuel Corporation on the Trafton ranch in sec. 10, T. 27 S., R. 35 W. was rated at 45 million cubic feet per day after being acidized with 15,000 gallons of acid. The largest new gas well in T. 29 S., R. 37 W. was drilled on the Shaw lease (sec. 10) by the Hugoton Production Company. After acidizing with 16,000 gallons of acid it flowed at the rate of 43 million cubic feet per day. Several other new wells in Grant County are rated at 30 million or more. An average of about 26 million cubic feet per day was established during 1952.

Production, the active area, and producing zones are shown under Hugoton in Table 67. Additional data on the Hugoton Gas Area are given in the chapter on natural gas.

GREENWOOD COUNTY

(Map Pl. 1)

The 1952 production: oil from 52 fields 6,834,217 barrels including approximately 4,528,863 barrels from secondary recovery operations. Wells drilled in 1952: oil 110, dry 56, input 81, water supply wells 4, total 251 including 12 wildcats.

Developments during 1952.—Data on the 12 dry wildcat wells drilled in Greenwood County in 1952 are listed in Table 36. Data on pool wells are listed in Table 35. For several years Greenwood County has been the leader in number of secondary recovery projects operating, and in barrels of oil produced by water-flooding methods. Secondary recovery statistics are listed in Table 1.

Oil production in the various Greenwood County fields is listed in Table 66. Locations of areas that produced oil in 1952 and of water-flooding operations in the county are shown on Plate 1.



TABLE 35.—Pool wells drilled in Greenwood County during 1952

Field or pool	Oil wells	Dry holes	Injection wells on water-flood projects	Water- supply wells on water-flood projects
Atyeo	1		14	
Beaumont	9	••••	••••	••••
Browning	3	1	••••	••••
Burkett		1	• • • •	••••
Burt		3 ,	****	••••
Climax	1	1	••••	
DeMalorie-Souder	4	7	5	1
Dunaway	2		••••	****
Fankhouser	5	•		••••
Hamilton	2	5	1	
Jobes	4		•	
Lamont	4	2	1	
Madison	8	2	8	1
"Mignot"	1	1		
Neal	****	1		•
Polhamus	1	****	1	****
Quincy	2	1	1	****
Sallyards	1		2	
Scott		1	****	••••
Seeley-Wick	5	1	24	1
Teeter	17		14	••••
Teichgraber	1	2	2	1
Thrall-Aagard	25	6	6	1
Tonovay	1	3		
Toronto		3 2 3	••••	••••
Virgil	5	3	2	••••
Virgil North	8		•	••••
Wiggins	••••	1		••••
Total	110	14	72	5

TABLE 36.—Dry wildcat tests drilled in Greenwood County during 1952

Company and farm	Location	Depth to top of Mis- sissippian, feet	Total depth, feet
*Derby Drlg. Co. et al. No. 1 Curry	SW¼ SW¼ SW¼ 11-23-11E	1,950	1,975
*Derby Drlg. Co. et al. No. 1 Redding	NW¼ NE¼ NW¼ 11-23-11E	2,020	2,049
Saturn Drlg., Inc. No. 1 Zebold	SE¼ SW¼ NE¼ 6-24-9E	2,439	2,484
*Raymond Smith No. 1 Snider	SE¼ NE¼ NW¼ 16-24-11E	2,055	2,090
*Davis & Conkey No. 1 Winters	NE¼ SE¼ NE¼ 32-24-13E	1,572	1,618
*Ward A. McGinnis No. 1 Olson	NW¼ NW¼ SW¼ 9-25-8E	2,450	2,484
*Ward A. McGinnis No. 1 Lewis	SW ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ 15-25-9E	2,220	2,222

*E. E. Souder et al. No. 1 Salyard	SE¼ SE¼ SE¼ 27-25-9E	2,203	2,378
*Mallard Drlg. Co. No. 1 Anderson	CN½ NE¼ SW¼ 14-25-10E	2,046	2,090
*Mouser Drlg. Co. No. 1 Anspaugh	SW¼ NW¼ NE¼ 17-27-10E	2,181	2,200
*Ben Hermes et al. No. 1 Shinkle	16-27-13E	•••••	1,585
White & Ellis et al. No. 1 Kinman	NE¼ SW¼ NW¼ 11-28-10E	2,143	2,543

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service and other available data sources have been used.

HAMILTON COUNTY

(Map Pl. 2)

The county lies partly within the Hugoton Gas Area, the production of which is not segregated as to counties. No oil produced. Wells drilled in 1952: total 8 (all gas):

Developments during 1952.—During 1952, eight more gas wells were added to the Hamilton County portion of the Hugoton Gas Area. Seven of the new wells are in T. 26 S., R. 39 W. The other well is in sec. 3, T. 26 S., R. 40 W. The new wells ranged in initial potential from 3.3 million to 22.4 million cubic feet of gas per day. Their average initial potential is about 13 million cubic feet per day.

The new Hamilton County wells are shown on Plate 2. Production, the active area, and producing zones are given under Hugoton in Table 67, and additional data on the Hugoton Gas Area are given in the chapter on natural gas.

HARPER COUNTY

The 1952 production from 3 pools: oil 15,142 barrels, gas 74,971 thousand cubic feet. Wells drilled in 1952: oil 1, dry 6, total 7 including 5 dry wildcats. New pools discovered 1.

Developments during 1952.—One of the wildcat tests drilled in Harper County during 1952 was successful in finding a new oil pool, the **Bluff Creek**. In The Texas Company No. 1 Baker, the discovery well, in sec. 24, T. 34 S., R. 5 W., a drill-stem test in the Kansas City limestone between 3,936 and 3,950 feet showed oil. Tops of lower formations tested are Mississippian rocks, 4,432; Chattanooga shale, 4,860; Viola limestone, 4,878; Simpson shales and sandstone, 4,890; and Arbuckle dolomite, 5,089 feet. No shows were found in the older rocks and the hole was plugged back to



TABLE 37.—Dry wildcat tests drilled in Harper County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of K.C., feet	Depth to top of Mis- sissippian, feet	Total depth, feet
Adkins & Potter No. 1 Daniels	S½ SE¼ NW¼ 19-32-5W	1,334	3,696	4,370	4,407
Morrison Drlg. Co. No. 1 Himners	NE¼ NE¼ NE¼ 31-32-5W	1,345	3,719	4,360	4,846
Morrison Drlg. Co. et al. No. 1 Miller	NE¼ SW¼ NW¼ 23-32-7W	1,407	3,850	4,410	4,953
The Texas Company No. 1 H. L. Wilcox	NE¼ SW¼ NW¼ 22-34-6W	1,278	3,866	4,550	5,329
*Morrison Drlg. Co. No. 1 Hanna	SW¼ NW¼ NE¼ 19-34-8W	1,274	4,078	4,625	4,749

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

3,938 to 3,943 feet where the casing was perforated. acidizing, the well was rated as having a capacity of 26 barrels of oil per day.

The dry wildcat tests are pretty well scattered. The Atkins and Potter test on the Wulf farm tested only the upper 80 feet of the Mississippian. The Morrison Drilling Company No. 1 Himners test tested all formations down to and including the Simpson sandstone. A show of oil and gas was found in the upper part of the Kansas City limestones at 3,719 feet. The Morrison Drilling Company test on the Miller farm penetrated all rocks down to the upper part of the Arbuckle dolomite. A fair show of oil and gas was found in the upper Mississippian at 4,412 feet. The Texas Company hole on the Wilcox farm in sec. 22 was carried into the "Wilcox sand" to a total depth of 5,291 feet. A good show of gas and some oil was found in Mississippian rocks at 4,596 feet in a cherty zone. The Morrison Drilling Company No. 1 Hanna test was drilled 125 feet into the Mississippian strata before it was abandoned as a dry hole.

Oil production during 1952 increased considerably in Harper County, especially since only one well was added to those previously producing. Oil production data are listed in Table 66, and gas production in Table 67. The new pool is described in Table 6.

HARVEY COUNTY

(Map Fig. 6)

The 1952 production from 8 pools: oil 159,286 barrels, gas 546,314 thousand cubic feet. Wells drilled in 1952: oil 7, dry 4, total 11, including 2 dry wildcats.

Developments during 1952.—Although only about half as much drilling was done in 1952, oil production in Harvey County showed an increase of about 5,000 barrels.

Four small producers were added to the Burrton Mississippian pool, and 1 Mississippian well and 2 "Hunton" wells to the Hollow-Nikkel pool. Two dry wildcat tests were made in the eastern part of the county. The J. P. Gaty et al. test on the White farm in the NE¼ NE¼ NW¼ sec. 3, T. 22 S., R. 2 E., about 7 miles northeast of the town of Newton, was abandoned at 2,724 feet when the operator failed to find production in basal Pennsylvanian rocks. The second test, about 10 miles southeast of Newton on the Voth farm in the S½ SE¼ SE¼ sec. 24, T. 23 S., R. 2 E., was abandoned by J. P. Gaty at a total depth of 3,061 feet, 300 feet below the top of the Mississippian rocks in that area.

Figure 6 shows the producing areas and dry wildcat tests drilled in Harvey County during 1952. Oil production data are listed in Table 66, and gas production in Table 67.

HASKELL COUNTY

(Map Pl. 2)

The 1952 production, all from the Hugoton Gas Area, is not segregated as to counties. Wells drilled in 1952: total 30 (all gas).

Developments during 1952.—The 30 new gas wells which were added to the Haskell County portion of the Hugoton Gas Area during 1952 did not appreciably change the eastern boundary of the producing area. The significance of this year's drilling lies in the fact that no dry holes were reported. The new wells range in size of initial potential from 0.5 million to 41.0 million cubic feet of gas per day. The average of the new wells is about 9.6 million cubic feet.

Haskell County wells are shown on Plate 2. Production, the active area, and producing zones are given under Hugoton in Table 67, and additional data on the Hugoton Gas Area are given in the chapter on natural gas.



HODGEMAN COUNTY

(Map Fig. 11)

The 1952 production from 2 pools: oil 133,928 barrels. Wells drilled in 1952: oil 2, dry 18, total 20 including 15 dry wildcats.

Developments during 1952.—Although drilling decreased slightly during 1952, the oil production from the county was double the 1951 figure. Outside of the 2 extension wells added to the **Purdyville** pool, no tests were able to locate new production. Three of the 18 dry holes were very near the **Purdyville** pool, and the other 15 dry wildcats were fairly well scattered over the county.

TABLE 38.—Dry wildcat tests drilled in Hodgeman County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of Lans K.C., feet	Depth to top of Mis- sissippian, feet	top of	Total depth. feet
Metropolitan Petro. Corp. No. 1 Jackson	NE¼ NE¼ NE¼ 20-21-25W	2,324	3,728	4,318		4,420
*Victor Drilling, Inc. No. 1 Dumler	NW¼ SE¼ NE¼ 9-21-26W	2,424	3,801	4,403	4,907	4,927
*Trans Era Petro., Inc. No. 1 Sinclair "B"	NW¼ NW¼ SE¼ 10-21-26W	2,408	3,762	4,404		4,495
Graham-Messman-Rinehart Oil Co. No. 1 Ruff	NW¼ NW¼ SW¼ 24-22-22W	2,157	3,819	4,420	••••••	4,480
Graham-Messman-Rinehart Oil Co. No. 1 Hartley	NE¼ NE¼ NE¼ 2-22-25W	2,463	3,974	4,569	*******	4,641
Texoma Prod. Co. No. 1 Nilhas	NW¼ NW¼ NW¼ 18-22-25W	2,540	3,975	4,617	5,178	5,246
W. J. Coppinger No. 1 C. J. Schmitt	NW¼ NW¼ NW¼ 23-22-25W	2,515	3,966	4,626	5,163	5,186
John Lindas Oil, Inc. No. 1 Clutter	NE¼ NE¼ SW¼ 20-22-26W	2,504	3,912	4,540		4,635
Kenneth A. Ellison No. 1 Baldrey	NW 1/4 NW 1/4 SE 1/4 4-23-22W	2,191	3,829	4,438		4,490
Graham-Messman-Rinehart Oil Co. No. 1 Gleason	NE¼ NE¼ SE¼ 24-23-22W	2,282	3,968	4,550	•••••	4,583
Simon Lebow No. 1 Reed	SE ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ 15-23-24W	2,424	4,060	4,716	5,230	5,241
*I. W. Siegel No. 1 Charles	SW1/4 SW1/4 SW1/4 19-23-24W	2,502	4,055	4,728		4,778
*I. W. Siegel No. 1 Wyatt	SE ¹ / ₄ NW ¹ / ₄ NW ¹ / ₄ 30-23-24W	2,512	4,076	4,750	••••••	4,798
Armer Drilling Co., Inc. No. 1 Mary Hall	SE¼ SE¼ NW¼ 11-24-22W	2,305	4,009	4,615	5,178	5,240
Pabco Drilling, Inc. No. 1 Alexander	SW 1/4 SW 1/4 SW 1/4 22-24-26W	2,575	4,176	4,837	•	4,985

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



Five of the dry wildcat tests penetrated the Arbuckle dolomite. The other tests drilled only into the Mississippian limestone. Only one of the Arbuckle tests reported shows of oil, the W. J. Coppinger No. 1 C. J. Schmitt test in sec. 23, T. 22 S., R. 25 W. Three of the Mississippian tests reported shows of oil. Perhaps the best show of oil in the dry wildcat tests was in drill-stem tests by Graham-Messman-Rinehart Oil Company on the Hartley test in sec. 2, T. 22 S., R. 25 W., where at 4,571 to 4,581 feet depth, 12 barrels of oil was swabbed per hour. Further testing showed a decline in the rate, and the well was declared noncommercial.

The dry wildcat tests are listed in Table 38. Oil production is given in Table 66. The producing areas and dry wildcat tests are shown on Figure 11.

JACKSON COUNTY

(Map Pl. 1)

Wildcat wells have been drilled in Jackson County from time to time, but as yet no producing pool has been found.

Exploration during 1952.—The Skelly Oil Co. No. 1 Beighley well, NE¼ NW¼ SE¼ sec. 14, T. 7 S., R. 13 E., was abandoned as a dry hole in February 1952. The total depth of the well is 3,603 feet. The top of Mississippian limestone was logged at 2,415 feet, the top of "Hunton" limestone at 2,783 feet, top of Viola limestone at 3,343 feet, top of Simpson rocks at 3,438, and the top of the Arbuckle limestone at 3,567 feet.

The Geological Survey has record of 10 wells drilled in the county previous to 1952 (Jewett, 1949, Table 44).

JEFFERSON COUNTY

(Map Pl. 1)

The 1952 production from 2 fields: oil 1,494 barrels, gas 40,130 thousand cubic feet.

Developments during 1952.—A part of the McLouth gas field was being conditioned for underground storage of natural gas.

Reported gas production from the **McLouth** area was much greater than in 1951 when only 391 thousand cubic feet was reported. Oil production declined sharply.



Oil production statistics in Jefferson County are listed in Table 66, and gas in Table 67. Areas that produced oil in the county in 1952 are shown on Plate 1.

JEWELL COUNTY

Wildcat wells have been drilled from time to time in Jewell County, but so far no producing pool has been found.

Exploration during 1952.—During 1952, one exploratory test was drilled in Jewell County. Harry Mann et al. drilled the test on the Beard farm in the NE¼ SW¼ SW¼ sec. 10, T. 5 S., R. 10 W. From an elevation of 1,636 feet above sea level, the following marker horizons were encountered: Topeka limestone, 2,380; Lansing strata, 2,691; Mississippian rocks, 3,368; Viola dolomite, 3,690; Simpson group, 3,900; and Arbuckle dolomite, 3,990 feet depth. The well was abandoned at a total depth of 4,052 feet after two drill-stem tests proved unsuccessful in finding commercial quantities of oil or gas.

JOHNSON COUNTY

(Map Pl. 1)

The 1952 production: oil none reported, gas 27,668 thousand cubic feet.

Developments during 1952.—No oil was reported from Johnson County in 1952. Gas production was in the Gardner and Olathe fields. Some drilling for gas in "Bartlesville sand" in the Dallas area was reported but logs were not available to the Geological Survey.

Gas production in the county is listed in Table 67.

KEARNY COUNTY

(Map Pl. 2)

The 1952 production from 1 pool: oil 28,229 barrels, gas, Hugoton Gas Area production not segregated as to counties. Wells drilled in 1952: total 75 (all gas).

Developments during 1952.—This county lies at the north end of the large Hugoton Gas Area. The addition of 75 gas wells to the Hugoton Gas Area within the boundary as drawn in 1951 is the most significant development in the county. The new gas wells are concentrated in a northeast-southwest trend west of Lakin. The new wells ranged in size from 900,000 cubic feet to



38.8 million cubic feet of gas per day. The average of these new wells is 11.4 million cubic feet per day. Large amounts of acid were required in several of the wells in order to make producers of them.

The oil production from the county's one oil pool decreased modestly in 1952. No new developments were reported in the Patterson oil field.

The Kearny County wells are shown on Plate 2. Production, the active area, and producing zones are shown under Hugoton in Table 67, and additional information on the Hugoton Gas Area given in the chapter on natural gas. Oil production is listed in Table 66.

KINGMAN COUNTY

(Map Fig. 15)

The 1952 production from 11 pools: oil 682,537 barrels, including production from 1 secondary recovery project, gas 1,324,915 thousand cubic feet. Wells drilled in 1952: oil 10, gas 1, dry 12, salt-water disposal 1, total 24 including 6 dry wildcats. New pools discovered 2.

Developments during 1952.—Drilling activity in Kingman County decreased from 92 wells in 1951 to only 24 in 1952, but both oil and gas production showed an appreciable gain over the previous year.

TABLE 39.—Dry wildcat tests drilled in Kingman County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
Transit Corporation No. 1 Ambler	NE¼ NW¼ NW¼ 15-27-5W	1,521	3,010	4,336	4,366
*Virginia Drlg. Co. et al. No. 1 Rayl	CS½ NW¼ NW¼ 15-27-7W	1,519	3,124	3,815†	3,879
*Coop. Ref. Assn. No. 1 Sheldon "C"	SE¼ SE¼ SW¼ 30-27-9W	1,664	3,437	4,450	4,486
*Solar Oil Company No. 1 Henry Gibbens	NW ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ 28-27-10W	1,655	3,455	4,390	4,435
Continental Oil Co. et al. No. 1 Hall	SW1/4 SW1/4 SW1/4 11-28-9W	1,640	3,442	4,512	4,555
Kenneth Ellison et al. No. 1 Wagner	NE¼ NE¼ SW¼ 10-28-10W	1,701	3,559	4,532	4,564

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



Depth to the top of the Mississippian, feet.

3

One of the new oil pools, the Artesian Valley, is in the north-western corner of the county in sec. 22, T. 27 S., R. 10 W. The Amerada Petroleum Corporation No. 1 Richardson well has a potential of 2,359 barrels of oil per day from the Viola limestone from depths of 4,315 to 4,323 feet. Some gas production has been reported from this new pool. The second pool was found in the eastern part of the county in sec. 11, T. 28 S., R. 5 W. There the Pabco Drilling Company found the Casley pool with the No. 1 Casley well which produces oil from dolomite of the Osagian Series (Mississippian) from depths of 3,794 to 3,801 feet. A new producing zone for the Pat Creek field, the Simpson, was discovered by the Nebraska-Wyoming Oil Company No. 2 Darlington well in sec. 20, T. 28 S., R. 9 W.

Three new oil wells were added to the **Broadway** pool, 1 to the **Dewey** pool, 2 to the **Dresden** pool, and 1 oil and 1 gas well were added to the **Spivey** pool.

All six of the dry wildcat tests drilled in the county during the year penetrated the Arbuckle dolomite; five had shows of oil or gas.

Locations of producing areas and dry wildcat tests are shown on Figure 15. Oil production data are given in Table 66, and gas production in Table 67. Information on the two new pools is found in Table 6, and data on the new producing zone are given in Table 7. The one secondary recovery project is reported in Table 1. Dry wildcat tests are listed in Table 39.

KIOWA COUNTY

The 1952 production from 2 pools: oil 7,219 barrels, gas 33,714 thousand cubic feet (miscellaneous).

Developments during 1952.—No tests were reported in Kiowa County during 1952. Some oil production was reported from the **Brenham** pool for the first time. The bulk of Kiowa County's oil production comes from the **Exel** pool.

Oil production is listed in Table 66. Similar information on gas is given in Table 67.

LABETTE COUNTY

(Map Pl. 1)

The 1952 production: oil from 7 fields 7,461 barrels; gas 19,614 thousand cubic feet. Wells drilled in 1952 (reported): oil 12, input 8, total 20.



Developments during 1952.—The 1952 oil production in Labette County was considerably greater than in 1951, when 4,556 barrels was reported. Reported gas production came from 12 commercial wells.

Data on oil production in the county are listed in Table 66, and gas in Table 67. Locations of areas that produced oil in 1952 are shown on Plate 1. Data on the secondary recovery project started in 1952 are given in Table 1.

LANE COUNTY

The 1952 production from the county's first pool: oil 2,954 barrels. Wells drilled in 1951: oil 1, dry 5, total 6 including 3 dry wildcats. New pools discovered 1.

Developments during 1952.—Wildcat tests have been drilled in Lane County from time to time, but it was not until 1952 that a successful one was completed. This year the Hugoton Production Company found oil on the Floyd farm in sec. 19, T. 17 S., R. 29 W. to open the North Fork pool. The test hole was drilled 110 feet into the Mississippian rocks. Some free oil came into the hole between the depths of 4,335 to 4,357 feet in the Lansing-Kansas City. Casing set through this zone was later perforated between 4,333 and 4,352 feet, and after two shots of acid of 500 gallons and 2,000 gallons respectively, a swabbing test showed 56 barrels of oil per hour for 9 hours. The official production test by the State Corporation Commission later fixed the potential of this well at 160 barrels per day. Two wells drilled later in the year within 1½ miles resulted in dry holes.

From an elevation of 2,693 feet above sea level, the B & R Drilling Company No. 1 Hagans well in the NW¼ NW¼ NW¼ sec. 16, T. 16 S., R. 30 W., drilled to a total depth of 4,589 feet, about 200 feet into Mississippian strata. Important marker horizons encountered in drilling are: Topeka limestone, 3,512; Lansing limestone, 3,785; base of the Kansas City limestone, 4,080; and Mississippian strata, 4,389 feet depth.

Important marker horizons encountered by the dry wildcat test put down by Trans Era Petroleum Company et al. on the Fenly lease in the NW¼ NW¼ NW¼ sec. 19, T. 18 S., R. 27 W., from an elevation of 2,716 feet above sea level, are: Topeka limestone, 3,655; Lansing limestone, 4,000; base of the Kansas City limestone, 4,320; and Mississippian rocks, 4,665 feet depth.



The electric log for the Amerada Petroleum Corporation dry wildcat test on the Ohnmacht farm in the SE¼ SE¼ NE¼ sec. 5, T. 20 S., R. 29 W. shows top of Dakota sandstone, 842; Permian redbeds, 1,415; Blaine gypsum, 1,593; Stone Corral dolomite, 2,163; Ft. Riley limestone, 2,970; Heeber black shale, 4,014; Lansing limestone, 4,061, and Mississippian at 4,699 feet depth. The well was drilled from an elevation of 2,865 feet above sea level and abandoned at a total depth of 4,785 feet. No shows of oil or gas were reported in the dry wildcat tests.

The new pool is described in Table 6. The production from the county's first pool is given in Table 66.

LEAVENWORTH COUNTY (Map Pl. 1)

The 1952 production: no oil reported; gas 6,608 thousand cubic feet.

Developments during 1952.— No oil was reported from the Banker's Life and Ackerland fields in the western part of Leavenworth County. Gas production was in the Roberts-Maywood area. A wildcat location, NE¼ NE¼ SW¼ sec. 35, T. 11 S., R. 22 E., was reported abandoned in September.

Oil production in Leavenworth County is listed in Table 66, and gas in Table 67. Areas that produced oil in 1952 are shown on Plate 1.

LINCOLN COUNTY

Wildcat tests have been drilled in Lincoln County from time to time, but so far no oil or gas pool has been found.

Exploration during 1952.—One dry wildcat test was drilled in Lincoln County during 1952. On the Harms farm in the SE¼ NW¼ SE¼ sec. 9, T. 12 S., R. 7 W., it was drilled by the Penguin Petroleum Company for Kenneth A. Ellison. According to the sample log prepared by J. D. Davies, the following tops were encountered in drilling: Lansing limestone, 2,424(?); Mississippian rocks, 3,108: "Hunton" limestone, 3,405; Viola limestone, 3,580; Simpson sandstone, 3,723; and Arbuckle dolomite, 3,800 feet depth. The test, drilled from an elevation of 1,362 feet above sea level, was abandoned at a total depth of 3,820 feet.



LINN COUNTY

(Map Pl. 1)

The 1952 production: oil from 9 areas in 3 fields 62,136 barrels including approximately 58,375 barrels from secondary recovery operations, gas 1,600 thousand cubic feet. Wells drilled in 1952 (reported): oil 22, input 12, total 34.

Developments during 1952.—Most of the oil produced in 1952 in Linn County came from four secondary recovery projects (Table 1). Gas production was confined to the LaCygne-Cadmus area. Oil production in the Linn County fields is listed in Table 66. Areas that produced oil during the year are shown on Plate 1.

LOGAN COUNTY

Wildcat wells have been drilled in Logan County from time to time, but so far no oil or gas pool has been found.

Exploration during 1952.—During 1952, six dry wildcat tests were drilled in Logan County. All were in the eastern third of the county. The locations, elevations, and important marker horizons encountered in drilling these wells are listed in Table 40.

In the B & R Drilling Company No. 1 Johnson "F" test in sec. 10, T. 11 S., R. 32 W., a show of gas and some oil were found between 4,103 and 4,148 feet, about 50 feet below the top of the Lansing limestone. The well was drilled 150 feet into Mississippian rocks. In the Skiles Oil Corporation No. 1 Sharp well, free oil was found in a sandy zone just above the Mississippian at 4,652

TABLE 40.—Dry wildcat tests drilled in Logan County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Mis- sissippian, feet	Total depth, feet
B & R Drlg., Inc. No. 1 Johnson "F"	NE¼ NE¼ SE¼ 10-11-32W	3,045	4,044	4,646	4,800
Skiles Oil Corp. No. 1 Sharp	SE¼ SE¼ SE¼ 15-11-32W	3,047	4,073	4,662	4,761
E. K. Carey Drlg. Co. No. 1 Burkhead	NE¼ NE¼ NE¼ 21-13-33W	2,925	3,874	4,550	4,650
D. R. Lauck Oil et al. No. 1 Briggs Ranch	NE¼ NE¼ NE¼ 35-13-33W	2,934	3,898	4,561	4,688
Ashland Oil & Refg. Co. No. 1 Briggs Ranch	SE¼ SE¼ SW¼ 14-14-33W	2,707	3,671	4,355	4,50 0
Vickers Petro. Co., Inc. No. 1 DeWeese	SW ¹ / ₄ SW ¹ / ₄ SW ¹ / ₄ 13-15-33W	2,795	3,758	4,488	4,692

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



Saltwater Oil Dry disposal Field or pool wells holes wells Atyeo 1 Bradfield 1 1 . .. Fankhouser 2 Ritchey-Moore 5 1 Rock Creek 1 Total 1

TABLE 41.—Pool wells drilled in Lyon County during 1952

to 4,656 feet depth. A show of oil in Morrowan rocks between 4,372 and 4,404 feet was found by the Vickers Petroleum Company No. 1 DeWeese test in sec. 13, T. 15 S., R. 33 W.

LYON COUNTY

(Map Pl. 1)

The 1952 production: oil from 6 fields 264,963 barrels including 212,108 barrels from secondary recovery operations. Wells drilled in 1952 (reported): oil 4, dry 14, input 1, salt-water disposal 1, total 20 including 6 dry wildcats.

Developments during 1952.—Data on pool wells drilled in Lyon County in 1952 are listed in Table 41; data on the six wildcat wells are listed in Table 42. Oil production was slightly less than in 1951, when the county produced 286,790 barrels of oil. One drilling location was abandoned during the year.

TABLE 42.—Dry wildcat tests drilled in Lyon County during 1952

Company and farm	Location	Surface eleva- tion, feet	Lans to	Depth to op of Mis- issippian, feet	Depth to top of "Hun- ton," feet	Depth to top of Arbuckle, feet	Total depth. feet
White & Ellis Drlg. Co. et al. No. 1 Day	NE¼ NE¼ SE¼ 16-16-11E	1,393	1,392	2,351	2.907		3,134
Stanolind Oil & Gas Co., No. 1 N. Christensen	SW¼ SW¼ NW¼ 9-17-11E	1,267	1.236	2.260	2,780	2,988	3,015
*Ben F. Brack Oil Co., Inc. No. 1 Miller	NEU NEU SWU 24-19-11E	1,106		2.012	2.461§	2.614	2.630
*J. P. Gaty No. 1 Van Sickle	SE¼ NW¼ NW¼ 16-20-12E	1,189	1.255	2.020		** * *	2.030
*Ben F. Brack Oil Co., Inc. No. 1 Rachel Williams	NW 14 NW 14 NW 14 18-21-10E		1.528†	2,348	2,799§	2,845‡	2.885
Emery Construction Co. No. 1 Rossillian	CW12 W12 E12 2-21-11E	1.201		2.064	2.579‡	2.645	2,675

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used Depth to the top of the Kansas City, feet.

Depth to the top of the Simpson, feet. Depth to the top of the Viola, feet.

Oil production statistics for the various fields are listed in Table 66. Areas that produced oil and secondary recovery projects are shown on Plate 1. Secondary recovery projects are summarized in Table 1.

McPHERSON COUNTY

(Map Fig. 6)

The 1952 production from 32 pools: oil 3,366,023 barrels including 688,411 barrels from secondary recovery projects; gas 3,591 thousand cubic feet. Wells drilled in 1952: oil 7, gas 2, dry 29, salt-water disposal 1, total 39 including 12 dry wildcats.

Developments during 1952.—Oil production in McPherson County increased more than 40,000 barrels in 1952; gas production decreased considerably. One more well was drilled in the county during 1952 than in 1951.

TABLE 43.—Dry wildcat tests drilled in McPherson County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C. feet	Missis-	Depth to top of Arbuckle, feet	Total depth, feet
Continental Oil Co. No. 1 Hattie Anderson	SW1/4 SW1/4 SW1/4 17-17-4W	1,440	2,462	3,123	3,753	3,800
The Texas Co. No. 1 Schmidt	NW¼ SE¼ SW¼ 21-18-3W	1,533	2,462	3,122	3,746	3,779
Anschutz Drilling Co. No. 1 Davis	NE ¹ / ₄ NE ¹ / ₄ NE ¹ / ₄ 17-18-4W	1,403	2,454	3,084	3,724	3,746
B & R Drlg., Inc. No. 1 Kumle	SW 1/4 SW 1/4 SE 1/4 20-18-4W	1,425	2,481	3,114	3,762	3,808
Victor Drlg., Inc. No. 1 Swanson	SE¼ SE¼ SE¼ 21-18-4W	1,460	2,490	3,122	3,760	3,790
*E. K. Carey Drlg. Co., Inc. No. 1 Nelson	NE¼ NE¼ NE¼ 24-18-4W	1,279	•···••	3,071	3,709	3 ,733
Natl. Coop. Ref. Assn. No. 1 Conway	NE¼ NW¼ NE¼ 29-19-4W	1,531	2,657	3,320	3,933	4,225
*Lindsley Drlg. Co. No. 1 Anna Koehn	NE¼ NE¼ NE¼ 26-20-2W	1,522	2,321	2,941		2,999
Anschutz Drlg. Co. et al. No. 1 Sitts	SW 1/4 SW 1/4 SE 1/4 4-20-4W	1,487	2,593	3,245	3,885	3,905
*Anschutz Drlg. Co. No. 1 Crary	NW¼ NW¼ NW¼ 13-20-4W	1,491	2,543	3,194	3,864	3,887
Anschutz Drlg. Co. et al. No. 1 Mitchell	SW 1/4 SW 1/4 SE 1/4 27-20-4W	1,465	2,570	3,221	3,857	3,885
Penguin Petro., Inc. No. 1 Regier	NE¼ NE¼ NE¼ 23-21-1W	1,525	2,361	2,975	3,622	3,651

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



The new oil and gas wells were not concentrated in any one pool. The extensions to existing production are: 1 gas well added to the Bitikofer North; 1 gas well to the Graber North; 2 oil wells to the Lindsborg; 2 oil wells to the McPherson; and 1 oil well each to the Paden South, Reuben, and Ritz-Canton pools. Two old wells worked over in the Voshell pool began production.

Of the 12 dry wildcat tests drilled, only 3 reported shows of oil or gas. A show of oil was found in the Victor Drilling Company No. 1 Swanson well in sec. 21, T. 18 S., R. 4 W., between 3,644 and 3,650 feet in the Viola limestone, and also between 3,685 and 3,690 feet in the Simpson sandstone. The Lindsley Drilling Company test on the Koehn farm in sec. 26, T. 20 S., R. 2 W., reported a show of gas in the Mississippian at 2,960 feet depth. In the National Cooperative Refinery Association Arbuckle test in sec. 29, T. 19 S., R. 4 W., a show of oil was found from 3,886 to 3,908 feet depth, in the Simpson sandstone. The well was converted to salt-water disposal.

No new developments were reported in the Barbara Oil Company's pilot flood of the Mississippian rocks in secs. 6, 7, and 8, T. 19 S., R. 1 W.

Oil production data for McPherson County are listed in Table 66. Gas production is given in Table 67. Dry wildcats drilled during the year are described in Table 43, and locations of producing areas and dry wildcat tests are shown on Figure 6. Information of the county's secondary recovery projects is given in Table 1.

MARION COUNTY (Map Pl. 1)

The 1952 production: oil from 18 fields 567,290 barrels, gas 69,180 thousand cubic feet. Wells drilled in 1952: oil 18, dry 28, total 46, including 6 dry wildcats. New pools discovered 2.

Developments during 1952.—The Biscuit Hill, a Mississippian limestone pool between 2,269 and 2,275 feet, was discovered by the W. R. Atkinson et al. No. 1 Brown well, N½ SE¼ sec. 33, T. 21 S., R. 4 E., in March. Initial daily production was established at 3 barrels of oil. The Aladdin Petroleum Corp. No. 1 Burton well, SE¼ NW¼ sec. 12, T. 22 S., R. 3 E., opened the Shank field. Oil was found in Mississippian limestone between 2,474 and 2,501 feet. The well was completed in July with initial

TABLE 44.—Pool wells drilled in Marion County during 1952

Field or pool	Oil wells	Dry holes
Antelope North	1	1
Biscuit Hill	1	
Bitikofer	****	1
Coons	****	1
Covert-Sellers	4	1
Florence	` 1	3
Lost Springs	1	1
Lost Springs East	1	1
Lost Springs Southeast	••••	1
Peabody	7	3
Propp	••••	1
Shank	1	3
Wenger	1	5
Total	18	22

daily production rated at 75 barrels of oil. Six other wildcats in the county were dry. Data on pool wells drilled during the year in Marion County are listed in Table 44. Data on the dry wildcat wells are listed in Table 45.

Production statistics in the Marion County oil fields are listed in Table 66. Gas statistics are listed in Table 67. Locations of areas that produced oil in the county in 1952 are shown on Plate 1.

TABLE 45.—Dry wildcat tests drilled in Marion County during 1952

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Mis- sissipplan, feet	Depth to top of Viola, feet	Total depth, feet
*Western Central Petro. No. 1 Knaak	S2 S2 SW¼ 24-19-2E	1,970	2,550	2,945	2,975
George Martin No. 1 Boettcher	SW¼ SW¼ SE¼ 11-19-4E	1,753	2,285	2,634	2,666
*Aladdin Petro. Corp. No. 1 Stenzel	SW¼ SE¼ NW¼ 18-19-5E		2,302	2,453‡	2,532
*Slusser Drlg. Co. No. 1 Meireroff	SE¼ NE¼ SW¼ 27-19-5E	1,726	2,208	2,419	2,439
*K. T. Wiedemann No. 1 Hawk	SW1/4 SW1/4 NE1/4 31-22-4E	2,047†	2,448	•	2,501
Donald T. Ingling et al. No. 1 Logan	SE¼ NE¼ NW¼ 29-22-5E	1,803	2,412	2,604	2,810

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.
 † Depth to the top of the Kansas City, feet.
 † Depth to the top of the "Hunton," feet.



MEADE COUNTY

(Map Fig. 13)

The 1952 production from 7 pools: oil 203,012 barrels, gas 550,126 thousand cubic feet. Wells drilled in 1952: oil 25, gas 11, dry 12, total 48 including 1 wildcat. New pools discovered 3.

Developments during 1952.—Three times as many wells were drilled as in 1951. Three new pools were found in Meade County. In April, R. E. Adams found oil in Morrowan beds on the Bromwell lease in sec. 7, T. 34 S., R. 29 W. This new pool, the Bromwell, is located several miles north of the Adams Ranch East pool and a similar distance southeast of the Novinger pool. A porous sand near the base of the Pennsylvanian (identified as of Morrowan age) between the depths of 5,899 and 5,908 feet showed free oil and some gas. Drilling continued, however, to test Mississippian rocks, the top of which was found at 5,964 feet. After drilling to 6,180 feet, the well was plugged back, casing set, and perforations made between the depths of 5,901 and 5,908 feet. Initial potential of 25 barrels per day was assigned to the new well.

The new Fringer gas pool was found by the Columbian Fuel Corporation No. 2 Adams "G" well in sec. 7, T. 35 S., R. 29 W. Gas occurs in Morrowan rocks between 5,780 and 5,793 feet.

The Stevens gas pool was opened by the Columbian Fuel Corporation No. 1 Stevens well in sec. 32, T. 32 S., R. 30 W. in September. The Morrowan producing zone lies between 5,560 and 5,597 feet; the well was rated at 8.7 million cubic feet per day.

In the Novinger pool, opened during 1951, 23 additional oil wells were completed. The Lanskan Oil Company No. 7 Langhofer well in sec. 23, T. 33 S., R. 30 W., failing to find oil in the Marmaton, opened production in a Morrowan sandstone, resulting in a new producing zone for the Novinger field.

The one wildcat in the county during the year was drilled by the Deep Rock Oil Corporation on the Adams "B" lease in the Cen. NW¼ NE¼ sec. 16, T. 35 S., R. 29 W., to a total depth of 6,296 feet. The Lansing limestone was encountered at 4,409 feet, Morrowan beds at 5,846 feet, and the Mississippian at 5,966 feet depth. A show of oil was found between 6,054 and 6,062 feet depth, but there was too much water present to allow commercial production.

The new pools are listed in Table 6, and the new producing zone in Table 7. Locations of producing areas and dry wildcat



tests are shown on Figure 13. Oil production is listed in Table 66 and gas production in Table 67.

MIAMI COUNTY

(Map Pl. 1)

The 1952 production: oil from 15 areas in 3 fields 591,153 barrels including approximately 527,059 barrels from secondary recovery projects, gas 47,000 thousand cubic feet. Wells drilled in 1952 (reported): oil 42, input 1, total 43.

Developments during 1952.—Drilling was chiefly in connection with water-flooding operations which are important in the county. The total production was greater than in 1951.

Data on secondary recovery projects in Miami County are listed in Table 1. Oil production in the various areas is listed in Table 66 and gas in Table 67. Locations of areas that produced oil in 1952 and of operating water-flooding projects are shown on Plate 1.

MITCHELL COUNTY

Wildcat wells have been drilled from time to time in Mitchell County, but to date no oil or gas pool has been discovered.

Exploration during 1952.—Two wildcat tests were completed in Mitchell County during 1952. The Murfin Drilling Company No. 1 Wessling well, in the SE¼ SE¼ NE¼ sec. 35, T. 6 S., R. 7 W., from an elevation of 1,444 feet above sea level, found the Heebner black shale at 2,318; Lansing limestone at 2,475; the Mississippian at 3,130, the "Hunton" at 3,420, Viola limestone at 3,585, the Simpson at 3,830, and Arbuckle dolomite at 3,940 feet depth. As there were no shows of oil or gas, the hole was abandoned at the total depth of 4,113 feet. Harms and Knight drilled a wildcat test on the Peters farm in the SW¼ SW¼ SW¼ sec. 11, T. 9 S., R. 7 W. From an elevation of 1,487 feet above sea level, the Lansing limestone was found at 2,579, the Mississippian at 3.238, "Hunton" dolomite at 3,482, Viola limestone at 3,639, Simpson rocks at 3,874, and Arbuckle dolomite at 3,932 feet. As no favorable indication of either oil or gas was encountered, the hole was abandoned at the total depth of 3,985 feet.



Injection Water-supply wells on wells on Dry Oil water-flood water-flood Field or pool wells holes projects projects 2 Caney 1 ----Caney West 1 Coffeyville-Cherryvale 3 12 Neodesha 10 1 1 2 Jefferson-Sycamore 11 1 2 Tyro 1 Wavside-Havana 2 1 2 27 8 15 Total

TABLE 46.—Pool wells drilled in Montgomery County during 1952

MONTGOMERY COUNTY

(Map Pl. 1)

The 1952 production: oil from 49 areas in 10 fields 677,863 barrels including approximately 543,736 barrels from secondary recovery operations, gas 554,298 thousand cubic feet. Wells drilled in 1952 (reported): oil 27, dry 8, input 15, water-supply 2, total 52.

Developments during 1952.—Oil production in Montgomery County was greater than in 1951. A large percentage was from secondary recovery operations.

Oil production in Montgomery County fields is listed in Table 66 and gas in Table 67. Data on secondary recovery operations are listed in Table 1. Areas of oil production in 1952 and locations of secondary recovery operations are shown on Plate 1. Data on wells reported drilled in Montgomery County fields in 1952 are listed in Table 46.

MORRIS COUNTY

(Map Pl. 1)

The 1952 production: oil from 3 fields 47,860 barrels, gas 45,573 thousand cubic feet. Wells drilled in 1952 (reported): oil 3, dry 1, total 4.

Developments during 1952.—Oil production in Morris County was less than in 1951. Gas production was also less than reported in 1951. One dry hole was reported in the **Three Mile Creek field**, and 3 oil wells in the **Three Mile Creek South** field.

Oil production statistics in the Morris County fields are listed in Table 66 and gas in Table 67. Locations of areas that produced oil in 1952 are shown on Plate 1.



MORTON COUNTY

(Map Pl. 2)

The 1952 production from 2 pools: oil none reported, gas 55,254 thousand cubic feet from the Richfield pool. Other gas production, all from the Hugoton Gas Area, not segregated as to counties. Wells drilled in 1952: gas 29, dry 3, total 32 including 2 dry wildcats.

Developments during 1952.—The Greenwood gas pool, found during 1951, was increased in area by the completion of 2 additional gas wells. Gas occurs in a Morrowan (?) sandstone in the original discovery well. Both new wells tested the Mississippian. The well in sec. 11, T. 33 S., R. 42 W. penetrated 150 feet of Mississippian strata before being plugged back. The casing was perforated opposite good gas shows in the Topeka and several other limestones in the Shawnee group. The well was completed at a depth of 2,988 to 3,018, about 45 feet below the top of the Topeka limestone. Its capacity is nearly 16 million cubic feet per day after liberal acid treatment. The second new gas well in this pool, in sec. 15 on the "C" lease of the Greenwood property, also drilled 150 feet into the Mississippian before being plugged back. It was completed in a Morrowan sand 60 feet above the Mississippian. After acid, its potential capacity was 4½ million cubic feet per day.

Only 1 dry hole was drilled in the Morton County part of the Hugoton Gas Area, while 27 new gas wells were drilled. Most of the new wells were in Ts. 34 and 35 S., R. 41 W., extending the area of the field in Morton County about 6,000 acres.

Two important dry wildcat tests were completed during the year by the Colorado Interstate Gas Company. One is located on the Hayward ranch in the Cen. S½ S½ sec. 9, T. 32 S., R. 42 W., 8 miles west of Richfield and 15 miles west of the gas area. From an elevation of 3,514 feet above sea level the following tops were recorded: Stone Corral anhydrite, 1,440; Lansing limestone, 3,305; Marmaton limestone, 3,719; Cherokee shale, 3,930; Atokan rocks, 4,186; Morrowan rocks, 4,540 feet; Chesteran Series (Mississippian), 5,104; Ste. Genevieve limestone, 5,219; and St. Louis limestone, 5,286 feet. A sand between 4,905 and 4,930 feet showed a good trace of free oil. The hole was abandoned at a total depth of 5,341 after numerous drill-stem tests.



The second wildcat drilled by the Colorado Interstate Gas Company is 6 miles farther west on the Dreyer ranch in the SW1/4 SW1/4 SW1/4 sec. 3, T. 32 S., R. 43 W., from an elevation of 3,607 feet above sea level. The tops reported by the driller's log are: Stone Corral, 1,445; Lansing limestone, 3,276; Marmaton group, 3,655; Atokan, 4,148; Morrowan, 4,536; Chesteran (Mississippian), 5,140; Ste. Genevieve limestone, 5,226; and St. Louis limestone, 5,328 feet depth. The hole was abandoned at a total depth of 5,349 feet; no shows were reported.

Production, the active area, and producing zones are shown under Hugoton in Table 67. Additional data on the Hugoton Gas Area are given in the chapter on natural gas. Location of the Morton County wells is shown on Plate 2. The named oil pools are listed in Table 66, and gas production in Table 67.

NEMAHA COUNTY

(Map Pl. 1)

The 1952 production from 2 fields: oil 34.223 barrels. Wells drilled during 1952: dry 1.

Developments during 1952.—A dry hole was completed in the Strahm field in September. It is the Midstates Refining Company No. 1 Dribelbis, SE¼ SE¼ SW¼ sec. 22, T. 2 S., R. 14 E., which was drilled to a total depth of 3,629 feet. The following tops were reported: Lansing, 1,344; Mississippian, 2,480; Kinderhookian, 2,650; "Hunton," 2,895; Maquoketa, 3,560; and Viola, 3,613 feet.

Oil production from the two Nemaha County fields is listed in Table 66. Locations of the fields are shown on Plate 1.

NEOSHO COUNTY

(Map Pl. 1)

The 1952 production from 23 areas in 9 fields: oil 645,001 barrels, including approximately 469,624 barrels from secondary recovery projects; gas 133,490 thousand cubic feet. Wells drilled in 1952: oil 32, dry 2, input 28, total 62.

Developments during 1952.—Oil production in Neosho County was slightly more than in 1951. Reported gas production was much less than that of the previous year. Reported drilling includes: 31 oil wells, 20 water input wells, and 1 dry hole in the Humboldt-Chanute field and 1 dry hole in the Urbana field. Prac-



tically all drilling was done in connection with secondary recovery operations.

Oil production in the various Neosho County fields is listed in Table 66, and gas in Table 67. Data on water-flooding operations are included in Table 1. Areas that produced oil and locations of secondary recovery operations are shown on Plate 1.

NESS COUNTY

(Map Fig. 11)

The 1952 production from 4 pools: oil 318,853 barrels. Wells drilled during 1952; oil 5, dry 9, total 14 including 7 dry wildcats.

Developments during 1952.—Ness County oil production showed a 20,000 barrel gain over the amount produced during 1951, while the same number of holes were drilled.

Five extension oil wells and two dry holes were added to the Aldrich pool. The seven dry wildcats were well scattered over the county. Five of these had shows of oil. The most encouraging shows of oil were encountered in the D. R. Lauck Oil Company test on the McCreight lease in sec. 9, T. 20 S., R. 24 W. In the Mississippian rocks, a drill-stem test from 4,419 to 4,430 feet depth showed 65 feet of oil and mud-cut oil. Further testing resulted in recovery of only water.

TABLE 47.—Dry wildcat tests drilled in Ness County during 1952

Company and farm	Location	Depth to top of anhydrite, feet	Depth to top of LansK.C., feet	Depth to top of Mis- sissipplan, feet	Total depth, feet
*Vickers Petro. Co., Inc. No. 1 Squier	SE¼ SE¼ SE¼ 7-16-22W	1,785	3,859	4,409	4,597
*Heathman & Co. No. 1 Elmore	NE¼ NE¼ NW¼ 2-17-21W	1,481	3,634	*******	4,307
Franco Central Oil Co. et al. No. 1 John A. Weeks "A"	NE¼ NE¼ NW¼ 31-17-24W	1,741	3,839	4,433	4,49 9
Sohio Petro. Co. No. 1 Pfannenstiel	SW1/4 SW1/4 SW1/4 6-19-23W	1,515	3,688	4,281	4,315
Jackson Drlg. Corp. No. 1 Brenner-Antennen	SW1/4 SW1/4 NE1/4 18-19-26W	1,920	3,938	4,566	5,064
Pabco Drlg., Inc. No. 1 Schwein	SW1/4 SW1/4 SW1/4 18-20-21W	1,408	3,763	4,360	4,512
D. R. Lauck Oil Co., Inc. No. 1 McCreight	NE¼ NE¼ SW¼ 9-20-24W	1,584	3,810	4,394	4,528

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



Locations of producing areas and dry wildcat tests are shown on Figure 11. The marker horizons encountered in drilling the seven dry wildcat tests are described in Table 47. Oil production data are given in Table 66.

NORTON COUNTY

(Map Fig. 4)

The 1952 production from 2 pools: oil 53,987 barrels. Wells drilled during 1952: oil 1, dry 16, total 17 including 14 dry wildcats.

Developments during 1952.—Production and drilling during 1952 were about the same as 1951. One oil well was completed in the Ray West pool.

TABLE 48.—Dry wildcat tests drilled in Norton County during 1952

Company and farm	Location	Depth to top of anhydrite, feet	top of	Depth to top of Arbuckle, feet	Total depth. feet		
*Empire Drlg. Co. No. 1. Atens Estate	SE1/4 SE1/4 SW1/4 6-1-22W	1,925	3,398	3,648†	3,695		
Keating Drlg. Co. No. 1 Wesley	NW¼ NW¼ NE¼ 4-3-23W	1,875	3,362	3,582	3,630		
*Empire Drlg. Co. No. 1 Gray	SW ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ 27-3-25W	1,885	3,387	3,721	3,875		
Harry Gore No. 1 Bullock	NE¼ NE¼ NW¼ 22-4-23W	2,005	3,537	3,801†	3,857		
The Texas Co. No. 1 Gleason	SE¼ SE¼ NE¼ 7-4-24W	2,120	3,594	3,896	3,950		
Anschutz Drlg. Co. No. 1 Zeirlin	NW¼ NW¼ SE¼ 36-4-25W	2,016	3,518	3,868	3,918		
Brooks Hall No. 1 Voss	NE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ 29-5-21W	1,941	3,535		3,771		
Saturn Drlg., Inc. et al. No. 1 Sullivan	SE¼ SE¼ SW¼ 34-5-21W	1,846	3,446	3,675	3,697		
Harry Gore No. 1 Voss	SE ¹ / ₄ NE ¹ / ₄ NE ¹ / ₄ 10-5-22W	1,720	3,291	3,540	3.605		
Empire Drlg. Co. No. 1 Schuck	SW1/4 SW1/4 NW1/4 31-5-22W	1,985	3,574	3,941	3,999		
Musgrove Petro. Corp. No. 1 Joseph Hickert	NE ¹ / ₄ NW ¹ / ₄ NW ¹ / ₄ 19-5-24W	2,010	3,516	3,898	3,930		
*Jones, Shelburne & Farmer, Inc. No. 1 Carl Dwyer	SE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ 26-5-24W	1,990	3,537	3,920	3,970		
*Jones, Shelburne & Farmer, Inc. No. 1 Hickert	SW1/4 SW1/4 NE1/4 32-5-24W	2,105	3,638	4,054	4,078		
*Musgrove Petro. Corp. No. 1 John Hickert	SW1/4 SW1/4 NW1/4 25-5-25W		3,523	3,950	4,000		

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used. † Depth to the top of the granite wash, feet.



The 14 dry wildcats, listed in Table 48 and shown on Figure 4, are scattered through the southern and western part of the county, near the production in northeastern Sheridan County and eastern Decatur County. The Keating Drilling Company No. 1 Wesley test in sec. 4, T. 3 S., R. 23 W. had a good show of oil in the Lansing limestone and another show in the Arbuckle dolomite at 3,585 feet depth. The Reagan sandstone was found at 3,599 feet and the Pre-Cambrian granite at 3,630 feet. The Brooks Hall No. 1 Voss test in sec. 29, T. 5 S., R. 21 W. had a good show of oil 130 feet below the top of the Lansing and also 100 feet lower. The Harry Gore No. 1 Voss well in sec. 10, T. 5 S., R. 22 W. had a show of oil near the top of the Lansing limestone. Some gas was found in the top of the Arbuckle dolomite at 3,542 feet depth. The Reagan sandstone was found at 3,560 and granite wash at 3,585 feet depth.

The county's production by pools is listed in Table 66.

OSAGE COUNTY

(Map Pl. 1)

Wildcat wells have been drilled from time to time in Osage County, but as yet no producing pool has been discovered.

Exploration during 1952.—Three dry wildcat wells were drilled in Osage County in 1952. The Cities Service Oil Company No. 1 Dilworth test, NW¼ NW¼ SW¼ sec. 7, T. 15 S., R. 17 E., was drilled to a total depth of 2,202 feet. Tops reported are: Lansing, 531; Mississippian, 1,610; "Hunton," 1,910; Viola, 1,991; Simpson, 2,077, and Arbuckle, 2,079 feet.

The C. N. Rupe No. 1 Sturdy well, NE¼ NE¼ SW¼ sec. 23, T. 17 S., R. 15 E., was abandoned at a total depth of 2,300 feet. Tops reported are: Mississippian, 1,620; Kinderhookian, 2,057; "Hunton," 2,133; Viola, 2,151; Simpson, 2,202, and Arbuckle, 2,244 feet.

The third dry hole drilled in Osage County in 1952 is the L. E. Smith and L. G. Cameron No. 1 J. W. Vanderscise, NW¹/₄ NW¹/₄ SW¹/₄ sec. 31, T. 17 S., R. 16 E. These tops were reported: Lansing, 487; Kansas City, 688; Mississippian, 1,544; Kinderhookian, 1,926; Viola, 2,033; and Arbuckle, 2,112 feet. The total depth is 2,172 feet.

Locations of the three wells are shown on Plate 1.



OSBORNE COUNTY

(Map Fig. 5)

The 1952 production from 1 pool: oil 73,200 barrels. Wells drilled during 1952: oil 12, dry 10, total 22 including 8 wildcats. New pools discovered 1.

Developments during 1952.—The first oil pool for Osborne County was found early in 1952, when the Anderson-Prichard Oil Corporation completed the first test on the Ruggles farm in sec. 23, T. 10 S., R. 15 W. The oil was found in the Pennsylvanian basal conglomerate. The new well is rated at 193 barrels of oil per day. The test showed free oil in the top of the Lansing limestone and considerable gas was encountered at several places lower in the Lansing sequence. A drill-stem test from 3,395 to 3,410 feet depth revealed 510 feet of oil in the hole. The test, drilled to test the Arbuckle dolomite which was found at 3,489 feet (no shows), was plugged back and the casing perforated between 3,394 and 3,410 feet. Before the end of the year, enough wells had been drilled around the discovery well to enlarge the pool to 12 wells.

Two wells in the Ruggles pool discovered new producing zones during 1952. In March, the Sohio Petroleum Company No.

TABLE 49.—Dry wildcat tests drilled in Osborne County during 1952

		Depth to top of					
Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Penn. basal	Depth to top of Arbuckle, feet	Total depth, feet	
Anderson-Prichard Oil Corp. No. 1 Stephenson	NE¼ NE¼ SE¼ 32-7-15W	1,867	3,074	3,462	3,666	3,723	
Anderson-Prichard Oil Corp. No. 1 Gregory	SW¼ SW¼ NW¼ 3-8-15W	1,901	3,103	3,492	3,730	3,780	
*Beach & Talbot No. 1 Tatkenhorst	SE¼ SE¼ NE¼ 16-9-15W	2,068	3,293	3,692	3,957	3,964	
L. B. Stableford No. 1 Meyer	NE¼ NE¼ SE¼ 36-9-15W	1,955	3,207	3,596	3,826	3,867	
*Cox & Cox No. 1 Meyer	NW 1/4 NW 1/4 NW 1/4 15-10-14W	2,014	3,218	3,617	3,879	3.910	
*Duke & Wood Drlg. Co. No. 1 Harrell	SE¼ NW¼ NE¼ 28-10-14W	1,854	3,102	3,489	*******	3,654	
Walters Drlg. Co. No. 1 Meyers	SE¼ NE¼ NE¼ 10-10-15W	1,998	3,244	3,637	3,828	3,862	
*Musgrove Petro. Corp. No. 1 Worley	SW ¹ ⁄ ₄ NW ¹ ⁄ ₄ NW ¹ ⁄ ₄ 35-10-15W	1,759	2,972	3,332	3,534	3,55 3	

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



1 Isenberg well in sec. 14, T. 10 S., R. 15 W. found commercial quantities of oil in the Lansing-Kansas City group between depths of 3,024 and 3,026 feet. The Anderson-Prichard Oil Corporation No. 6 Ruggles "A" well found a producing zone in the Toronto limestone from 2,986 to 2,989 feet depth. These new producing zones have been described by the Kansas Nomenclature Committee, and are listed in Table 7.

The wildcat tests drilled during 1952 are listed in Table 49. The test on the Tatkanhorst farm drilled by Beach and Talbott in sec. 16, T. 9 S., R. 15 W. had a show of oil in limestone 60 feet below the top of the Lansing and another show of oil 160 feet lower in basal Kansas City limestone. Neither was sufficient to make a commercial well. None of the other wildcats had shows of oil or gas.

The location of the producing area and part of the dry wildcats are shown on Figure 5. The new pool is listed in Table 6. Osborne County's 1952 oil production is listed in Table 66.

OTTAWA COUNTY

Wildcat wells have been drilled from time to time in Ottawa County, but as yet no oil or gas pool has been found.

Exploration during 1952.—During 1952, one exploratory test was made in Ottawa County. Veverka, Gassoway and Ordway drilled to 3,805 feet on the Kiem farm in the NW¼ NW¼ NW¼ sec. 33, T. 9 S., R. 5 W. From an elevation of 1,540 feet above sea level, the following marker horizons were reported: Ft. Riley limestone, 1,098; Heebner shale, 2,420; Lansing-Kansas City group, 2,538; base of the Kansas City group, 2,925; Mississippian limestone, 3,256; "Hunton" limestone, 3,612; and Viola limestone, 3,785 feet depth.

PAWNEE COUNTY

(Map Fig. 10)

The 1952 production from 15 pools: oil 543,951 barrels, gas 2,986,948 thousand cubic feet. Wells drilled in 1952: oil 23, gas 7, dry 19, total 49 including 7 dry wildcats. New pools discovered 1, revived 1, combined 2.

Developments during 1952.—Oil production in Pawnee County showed an increase of more than 100,000 barrels; gas declined



more than 26 percent during 1952. Seventeen more tests were attempted in the county during 1952 than in 1951.

The county's new oil pool, the **Benson South**, was brought in by M. B. Armer Drilling Company on the Garvin farm in sec. 30, T. 23 S., R. 15 W. The discovery well produces from a porous zone 125 feet below the top of the Lansing-Kansas City group. An initial potential of 401 barrels of oil per day was assigned.

The Larned pool, officially abandoned during 1951, was revived during 1952 by the Musgrove Petroleum Corporation No. 1 Phinney test in sec. 34, T. 21 S., R. 16 W. A maximum potential was assigned the revival well, which produces from the Arbuckle dolomite from 3,851 to 3,856 feet depth. Before the close of the year, 4 extension wells, 2 of which were maximum, were added to the revived pool.

Two new producing zones, the Simpson and Arbuckle, were added to the **Evers** pool, and the Lansing-Kansas City was added to the **Benson Southeast** pool during 1952. These new producing zones are listed in Table 7.

Pools combined during the year are the Rutherford East with the Ryan, and the Pawnee Rock West with the Pawnee Rock pool.

Four extension oil wells and 3 gas wells were added to the **Benson Southeast** pool, 4 oil and 1 shut-in gas wells were added to the **Evers** pool, and 7 oil wells were added to the **Pawnee Rock** pool.

TABLE 50.—Dry wildcat tests drilled in Pawnee County during 1952

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth. feet
Vickers Petro. Co., Inc. No. 1 Gustafson	SW1/4 SW1/4 SW1/4 10-20-16W	2,041	3,467	3,752	3,789
*T. H. Mastin et al. No. 1 Finger	NE ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ 31-20-16W	2,022	3,487	3,791	3,891
Armer Drilling Co., Inc. No. 1 De Roo	SW ¹ / ₄ SW ¹ / ₄ SE ¹ / ₄ 17-21-16W	2,001	3,464	3,802	3,896
Jackson Drilling Corp. No. 1 Crane	SW 1/4 SW 1/4 NE 1/4 4-22-15W	1,983	3,517	3,948	3,980
*Flynn Oil Co. No. 1 Michael	SW14 SW14 SW14 10-22-16W	2,034	3,595	4,035	4,043
*Alpine Oil & Royalty Co., Inc. No. 1 Ingels	NW ¹ / ₄ NW ¹ / ₄ NE ¹ / ₄ 16-22-16W	2,038	3,584	3,964	4,06 0
Transit Corp. et al. No. 1 Wurm	NW ¹ 4 NW ¹ 4 NE ¹ 4 34-23-16W	2,072	3,690	4,166	4,220

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



Gas production was reported for the first time in several years from the **Torrance** pool. Nadel and Gussman brought in an 18 million cubic feet per day well on the Bird lease in sec. 19, T. 21 S., R. 15 W., during 1952. Production comes from 3,810 to 3,816 feet in the Arbuckle dolomite.

Five of the seven dry wildcat tests had shows of oil or gas. In the Jackson Drilling Corporation No. 1 Crane test, free oil was found between the depths of 3,573 and 3,617 feet, 55 feet below the top of the Lansing limestone. Many of the gas shows in the other dry wildcat tests occurred in the top part of the Arbuckle dolomite. These tests are listed in Table 50.

The new pools are listed in Table 6. Locations of producing areas and dry wildcat tests are shown on Figure 10. Oil production data are given in Table 66, and gas production data in Table 67.

PHILLIPS COUNTY

(Map Fig. 5)

The 1952 production from 15 pools: oil 2,689,906 barrels. Wells drilled in 1952: oil 29, dry 23, total 52 including 12 dry wild-cats. New pools discovered 2.

Developments during 1952.—Drilling activity dropped off considerably from the previous year, while production remained steady.

The first new Phillips County pool, the Fredericksburg, was found in March when the Alpine Oil and Royalty Company finished a Lansing limestone test on the Kauk farm in sec. 4, T. 1 S., R. 18 W. An initial potential of 50 barrels of oil per day was given the discovery well, which was drilled to a total depth of 3,460 feet. Late in the year, J. H. Johnson on the Lappin lease in sec. 15, T. 5 S., R. 20 W., discovered oil in the Arbuckle dolomite for the county's second new oil pool, called the Hansen West. The well, given an initial potential of 15 barrels of oil per day, was drilled to a total depth of 3,554 feet.

Eight extension oil wells were added to the **Huffstutter** pool, 4 to the **Huffstutter Southwest** pool, and 6 to the **Stuttgart** pool. Six old wells were worked over in the county, resulting in 3 oil wells, 2 dry holes, and 1 salt-water disposal well.



TABLE 51.—Dry wildcat tests drilled in Phillips County during 1952

Company and farm	Location	Depth to top of Topeka, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth. feet
Musgrove Petro. Corp. No. 1 Jackson	SW1/4 SW1/4 NE1/4 21-1-16W	3,118	3,393	3,939†	3.980
*R. W. Rine Drlg. Co. No. 1 Frazer	NW¼ NW¼ SE¼ 8-1-17W	3,107	3,356	3,831†	3,893
*Anschutz Drlg. Co. No. 1 Cannon	SW1/4 SW1/4 SW1/4 17-2-17W	3,040	3,312	3,827	3,850
Superior Oil Co. No. 1 Good	SE¼ NE¼ NE¼ 22-2-18W	3,131	3,347	3,757	3,787
*Jones, Shelburne & Farmer Inc. No. 1 Doman	SE1/4 SE1/4 NW1/4 28-2-18W	3,120	3,343	3,756	3,814
*Lewis Drlg. Co. et al. No. 1 Merklein	NW 1/4 SE 1/4 NW 1/4 22-2-19W		3,399		3,560
Sohio Petro. Co. No. 1 Hansen	SW¼ NW¼ NE¼ 33-3-18W	2,898	3,143	3,577	3,598
*Lewis Drlg. Co. et al. No. 1 Merklein "A"	NE¼ NE¼ SE¼ 16-3-19W	3,020	3,265	•	3,425
Natl. Assoc. Petro. Co. No. 1 Pfleiger	NW¼ NW¼ SW¼ 32-3-19W	3,041	3,274	3,592	3,657
The Texas Company No. 1 John Schurz	SE¼ SE¼ SE¼ 8-4-19W	3,019	3,266	3,585	3,684
Anderson-Prichard Oil Corp. No. 1 Becker	NE¼ NE¼ SW¼ 13-4-19W	2,936	3,173	3,519	3,572
The Texas Company No. 1 Emery	NE ¹ / ₄ NW ¹ / ₄ NW ¹ / ₄ 16-5-20W	3,054	3,298	3,580	3,635

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

Depth to the top of the Viola, feet.

Five of the 12 dry wildcat tests had shows of oil or gas. Most of the dry tests were drilled north of Phillipsburg. The important marker horizons encountered in drilling these tests are listed in Table 51.

Locations of producing areas and dry wildcat tests are shown on Figure 5. Oil production data are given in Table 66. Information on new pools is given in Table 6.

PRATT COUNTY

(Map Fig. 14)

The 1952 production from 20 pools: oil 2,733,095 barrels including production from 1 secondary recovery project, gas 2.646.761 thousand cubic feet. Wells drilled in 1952: oil 53, gas 2, dry 35, salt-water disposal 1, total 91 including 16 dry wildcat tests. New pools discovered 4.



Developments during 1952.—About one-third more wells were attempted in Pratt County during 1952 than in 1951. Oil production increased about 300,000 barrels, and gas production increased considerably. Most of the new drilling was concentrated in the Chance and Iuka-Carmi pools.

The discovery well of the new **Barnes** gas pool was drilled by Anschutz Drilling Company on the Barnes property in sec. 25, T. 27 S., R. 12 W. The pool is located 6 miles west of the **Cunning-ham** pool. The discovery well, which found gas in the Simpson sandstone, is rated at almost 8 million cubic feet of gas per day.

TABLE 52.—Dry wildcat tests drilled in Pratt County during 1952

	· ·		J	• .		
Company and farm	Location I	Depth to top of LansK.C., feet	top of	Depth to top of Simpson, feet	top of	Total depth feet
Mercury Drlg. Co. No. 1 Hawver	NW¼ NW¼ NE¼ 5-26-12W	3,631	4,090	4,175	4,267	4,305
Natl. Coop. Ref. Assn. No. 1 Long	NW¼ NW¼ NE¼ 16-26-12W	3,670	4,161	4,240	4,345	4,420
*Natl. Coop. Ref. Assn. No. 1 Burkner	SE¼ SE¼ SW¼ 25-26-12W	3,666	4,295	4,392	4,481	4,581
*Murfin Drlg. Co. No. 1 Nesbitt	NE¼ NE¼ SE¼ 11-26-13W	3,720	4,245	4,332	4,399	4,440
*Metropolitan Oil Co. No. 1 Randle	SE¼ SE¼ NW¼ 30-26-14W	3,910	4,435	4,547	4,622	4,650
Lion Oil Co. No. 1 Callahan	NW 1/4 NW 1/4 SE 1/4 33-26-14W	3,901	4,444	4,506	4,610	4,640
Anderson-Prichard Oil Corp. No. 1 Long	SW1/4 SW1/4 NE1/4 11-26-15W	3,822	4,359	4,469	4,512	4,572
Lion Oil Co. No. 1 Allen	NW¼ NW¼ SE¼ 21-27-12W	3,703	4,319	4,391	4,483	4,585
Lion Oil Co. No. 1 Airport	SE¼ SE¼ SE¼ 8-27-13W	3,859	4,361	4,412	4,527	4,545
B & R Drlg., Inc. No. 1 City of Pratt	SW1/4 SW1/4 SW1/4 17-27-13W	3,875	4,362	4,420	4,529	4,600
Armer Drlg. Co., Inc. et al. No. 1 Wagner	SW1/4 SW1/4 NE1/4 34-28-11W	3,707	4,398	4,487	4,585	4,625
John Lindas Oil, Inc. No. 1 Lunt	NW ¼ NE ¼ NW ¼ 5-28-12W	3,718	4,310	4,402	4,510	4,540
Time Petro. Co. No. 1 Banberry	SE¼ SE¼ SW¼ 18-28-12W	3,829	4,424	4,505	4,646	4,752
Pabco Drlg., Inc. No. 1 Fincham	SW¼ NW¼ NW¼ 31-28-12W	3,868	4,483	4,578	4,702	4,711
*Cities Service Oil Co. No. 1 Lynch "B"	SW1/4 SW1/4 NE1/4 6-29-11W	3,780	4,422	4,506	4,618	4,650
Lion Oil Co. No. 1 Omo	NW ¹ / ₄ NW ¹ / ₄ NW ¹ / ₄ 2-29-14W	3,982	4,472	4,556	4,648	4,694

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



A second gas pool, the **Blowout**, was found by the Lion Oil Company when the first test on the Eubank lease was completed in sec. 8, T. 27 S., R. 14 W. Here the gas, in the amount of 8 million cubic feet per day also, was found in a porous zone within the Lansing limestone. The **Chance East** pool, between the **Chance** and the **Iuka-Carmi** pools, was opened by Rine Drilling Company with a 220 barrel per day oil well from the Viola limestone on the Briggeman farm in sec. 34, T. 26 S., R. 13 W. The **Jarboe** pool was also opened by the Rine Drilling Company, when an old well worked over on the Jarboe lease was assigned an initial potential of $3\frac{1}{2}$ barrels of oil per day from the Lansing-Kansas City sequence in sec. 25, T. 26 S., R. 14 W.

Seventeen oil wells and 1 dry hole were added as extension wells to the **Chance** pool, and 33 oil wells and 11 dry holes were added to the **Iuka-Carmi** pool.

The following new producing zones were officially recognized during the year: Barnes, Lansing-Kansas City; Chance, Viola; and Chance East, Mississippian. These new producing zones are tabulated in Table 7.

Seven of the 16 dry wildcat tests reported shows of oil or gas. Good shows of oil and gas were found in the Lion Oil Company No. 1 Callahan test in sec. 33, T. 26 S., R. 14 W. Strongest shows were in the Lansing limestone 27 feet below the top, where 75 feet of free oil was reported. Both oil and gas shows were found in the Anderson-Prichard Oil Corporation No. 1 Long test in sec. 11, T. 26 S., R. 15 W., where three zones in the Lansing-Kansas City sequence showed promise. Much testing was done on the Lion Oil Company No. 1 Allen "A" well in sec. 21, T. 27 S., R. 12 W., without commercial results.

Data on the new oil and gas pools are given in Table 6. Locations of producing areas and dry wildcat tests are shown on Figure 14, and dry wildcat tests are listed in Table 52. Oil production information is given in Table 66, and gas production figures in Table 67. Data on the secondary recovery project which extends into Kingman County is given in Table 1.

RENO COUNTY

(Map Fig. 6)

The 1952 production from 17 pools: oil 1,473,362 barrels including 3,400 barrels from 1 secondary recovery project, gas 120,734 thousand cubic feet. Wells drilled during 1952: oil 11,



dry 24, salt-water disposal 1, total 36 including 14 dry wildcats. New pools discovered 3.

Developments during 1952.—The National Cooperative Refinery Association in drilling southwest of the Sankey pool on the Schweizer lease in sec. 21, T. 22 S., R. 10 W. found oil in the Viola limestone at 3,548 feet depth. The new well, opening the Sankey Southwest pool, is capable of producing 483 barrels of oil per day. The second new pool is the Nicklaus pool, located very close to the old Hilger pool in the southeastern part of the county. Here the Saturn Drilling Company found oil on the Nicklaus farm in sec. 3, T. 26 S., R. 4 W. in a porous zone of the Lansing-Kansas

TABLE 53.—Dry wildcat tests drilled in Reno County during 1952

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Viola, feet	Depth to top of Arbuckle, feet	Total depth, feet
*Braden Drlg. Co. No. 1 Stoughton	NE¼ NE¼ SW¼ 22-22-5W	******	3,962	4,065	4,116
Transit Corp. et al. No. 1 Welker	NE¼ NW¼ NE¼ 14-22-8W	3,076		3,580†	3,640
Stag Drlg. Inc. No. 1 Schumucker	SW¼ SW¼ SE¼ 24-22-9W	3,140	3,828	3,945	4,000
*Bud Edwards Drlg. Co. No. 1 Titus	SE¼ SE¼ SE¼ 4-22-10W	3,111	3,460	3,554	3,593
*Braden Drlg. Co. No. 1 Russell	SE¼ SE¼ NW¼ 30-23-7W	3,092	3,988	4,080	4,120
*Musgrove Petro. Corp. No. 1 Davidson	NW¼ NW¼ NW¼ 33-23-9W	3,303		3,765†	3,801
The Derby Oil Co. No. 1 House	NW ¼ NW ¼ NW ¼ 7-25-4W	2,737	3,938	3,961‡	3,990
R. H. Godfrey No. 1 Smith	NE¼ NE¼ NE¼ 23-25-4W	2,755	4,024	4,129	4,152
*Musgrove Petro. Corp. No. 1 Jones	SW¼ SW¼ NE¼ 19-25-9W	3,423	4,132	*******	4,221
The Texas Co. No. 1 Schmitz	NE¼ SW¼ SE¼ 2-26-4W	2,876	4,131	4,242	4,298
Kewanee Oil Co. No. 1 Hettinger	SE ¹ / ₄ NE ¹ / ₄ SE ¹ / ₄ 31-26-5W	2,981	4,135	*******	4,157
*S. A. Murphy et al. No. 1 Stucky	SE ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ 28-26-6W	3,051	4,117	4,236	4,276
*Bay Petro. Corp. et al. No. 1 Ray	N2 N2 SE1/4 21-26-8W	3,342	4,292	4,421	4,462
Armer Drlg. Co., Inc. No. 1 Goesling	SE ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ 3-26-10W	3,467	4,204	4,387	4,440

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



[†] Depth to the top of the Mississippian, feet.

[‡] Depth to the top of the Simpson, feet.

City at a depth of 3,249 feet. The discovery well is rated as having a capacity of 87 barrels of oil per day. The **Keddie** pool discovery well, in sec. 26, T. 23 S., R. 10 W., an old well worked over, was carried as dry and abandoned.

The Mid-States Oil Corporation No. 1 Schlickou "A" test in sec. 10, T. 25 S., R. 4 W., was named as discovering a new Viola producing zone in the **Haven** pool, but later in the year, the well was converted to a salt-water disposal well (Table 7).

Among the new oil wells in this county, 6 are in the Buhler pool. Each produces from Simpson sandstone. One new oil well producing from Mississippian "chat" was completed in the western part of the Burrton pool. One new Viola oil well was added to the Haven pool, in the southeastern part of the county.

Six of the 14 dry wildcat tests had shows of oil or gas. The Derby Oil Company No. 1 House test in sec. 7, T. 25 S., R. 4 W., had a show of gas in the top part of the Mississippian. Bay Petroleum Corporation in their test on the Ray farm in sec. 21, T. 26 S., R. 8 W., had a good show of oil and also gas in the Lansing limestones at 3,405 feet depth, 50 feet below the top of that formation.

The new pools are described in Table 6. Dry wildcat tests are listed in Table 53, and are shown with the producing areas on Figure 6. Oil production is given in Table 66, and gas production in Table 67. Data on the secondary recovery project are reported in Table 1.

RICE COUNTY

(Map Fig. 6)

The 1952 production from 55 pools: oil 9,566,545 barrels, gas 450,848 thousand cubic feet. Wells drilled in 1952: oil 154, dry 102, salt-water disposal 3, total 259 including 15 dry wildcats. New pools discovered 5, revived 2, combined 1.

Developments during 1952.—Drilling activity in Rice County during 1952 increased by 18 wells. Oil production increased by about 63,000 barrels, while the gas production from the county declined considerably.

The new pools found during the year are the Bingham, Calf Creek North, Fair, Farmer, and Schulz. The Bingham pool discovery well was drilled by W. L. Hartman on the Bingham lease



in sec. 35, T. 19 S., R. 9 W., next to the **Quivira** gas field. The new pool derives its production from the Arbuckle at 3,332 feet depth. The **Calf Creek North** pool, discovered by Vickers Petroleum Company on the Roesler "B" lease in sec. 28, T. 18 S., R. 10 W., produces oil from the Arbuckle dolomite. Drilling on the Fair lease in sec. 15, T. 21 S., R. 10 W., Magnolia Petroleum Company brought in the discovery well of the new **Fair** pool, which produces from the Pennsylvanian basal conglomerate. The Arbuckle dolomite is the producing zone of the new **Farmer** pool, discovered by the Nadel and Gussman No. 1 Bredfeldt well, which was assigned an initial potential of 1,166 barrels of oil per day, the

TABLE 54.—Dry wildcat tests drilled in Rice County during 1952

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Viola, feet	Depth to top of Arbuckle, feet	Total depth, feet
Continental Oil Co. No. 1 Peter Wolf	SW¼ SW¼ NW¼ 20-18-6W	2,744	3,169‡		3,383
J. R. Greeley Drlg. Co. No. 1 Bronleewe	SW¼ SW¼ NE¼ 13-18-7W	2,734	3,357	3,467	3,494
*A. J. Stormfeltz No. 1 Jansen	SE¼ SW¼ SE¼ 7-18-8W	2,8 95		••••••	3,225
Victor Drlg. Co. No. 1 Barker	SE1/4 SW1/4 SE1/4 30-18-8W	2,901	3,334	3,443	3,475
*Pickrell Drlg. Co. No. 1 Schoonover	SW¼ SW¼ SW¼ 21-18-9W	2,882		3,225	3,265
L. B. Jackson et al. No. 1 Ramage	SW1/4 SW1/4 NE1/4 16-19-6W	2,702	3,443	3,538	3,576
*Dozier Oil Co. No. 1 Engelland	SW1/4 SE1/4 NW1/4 19-19-7W	2,921	3,257‡		3,440
*Flynn Oil Co. No. 1 Gray	NW¼ NW¼ SE¼ 17-19-8W	2,854	3,325	3,426	3,456
*Dozier Oil Co. No. 1 Stewart	SE¼ SE¼ NW¼ 27-19-8W	2,893	3,225‡		3,336
O. A. Beech No. 1 Leonard	NW1/4 NW1/4 SE1/4 16-20-7W	2,924	3,597	3,695	3,730
*Stag Drlg. Inc. et al. No. 1 Roth	SE¼ SE¼ SE¼ 24-20-9W	2,906	3,239‡		3,455
*Anschutz Drlg. Co. No. 1 Fair	SW ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ 29-20-9W	2,928		3,295	3,325
Pickrell Drlg. Co. No. 1 Bell	SE ¹ / ₄ SE ¹ / ₄ NW ¹ / ₄ 15-21-8W	2,932	3,593	3,703	3,733
*Morrison Drlg. Co., Inc. No. 1 Howe	SW¼ SW¼ SE¼ 32-21-9W	3,056	3,516	3,645	3,667
*Graham-Messman-Rinehart Oil Co. No. 1 Isern	NW¼ NW¼ SE¼ 12-21-10W	2,974	3,318‡	3,399	3,429

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

‡ Depth to the top of the Pennsylvanian basal conglomerate, feet.



largest of any of the 1952 discoveries. When working over an old well on the Schulz lease Ash-Mur Drilling Company was thought to have a new pool and the name of the lease was assigned, but completion of the test reported the hole dry and abandoned.

The Click and Galt pools, revived during the year, obtain production from Lansing-Kansas City and Arbuckle, respectively.

After the Skiles Oil Corporation No. 2 Boldt test in the Ixl South pool found production in the Arbuckle, the pool was combined with the Ixl pool, which also produces from the Arbuckle.

There were many pool extensions during the year. The ones having the larger additions are: Bornholdt, 11 new oil wells and 4 dry holes; the Rice County portion of Chase-Silica, 26 new oil wells, 16 dry holes, 3 salt-water disposal wells, and 2 abandoned locations; Edwards, 8 oil wells and 1 dry hole; Geneseo, 19 oil wells and 8 dry holes; Smyres, 15 oil wells and 4 dry holes; and Welch, 15 oil wells and 2 dry holes.

Six of the 15 dry wildcats reported shows of oil or gas. The Continental Oil Company test, very close to the abandoned **Jennings** pool, reported no shows. The Arbuckle test put down by the Pickrell Drilling Company on the Schoonover lease was in the abandoned **Cow Creek** field. Only salt-water was recovered on drill-stem tests.

The new and revived pools are described in Table 6, the new producing zone in Table 7. Pertinent data on the dry wildcat tests are listed in Table 54. Locations of producing areas and dry wildcat tests are shown on Figure 6. Oil production is listed by pools in Table 66, and gas production in Table 67.

ROOKS COUNTY

(Map Fig. 5)

The 1952 production from 82 pools: oil 7,287,132 barrels. Wells drilled during 1952: oil 137, dry 141, salt-water disposal 1, total 279 including 24 dry wildcats. New pools discovered 15. Pools combined 3.

Developments during 1952.—Oil production increased almost 200,000 barrels in Rooks County during 1952. Drilling activity remained steady.

The wildcat wells found 15 new pools during the year. The names of the new pools arranged in alphabetical order are: Bartos, Bassett Southwest, Baumgarten Northeast, Brungardt, Dancer,



Dopita East, Elm Creek West, Fehnel, Hillside, Laura Southeast, Lynd Southwest, McMullen, Medicine Creek, Mt. Ayr, and Zurich Southwest. Seven of these new pools derive oil from the Arbuckle dolomite, seven secure oil from Lansing-Kansas City limestones and one, the Hillside, produces oil from a limestone in the Shawnee group. The initial capacity of the discovery wells ranged from 11 barrels for the Mt. Ayr pool to 365 barrels for the McMullen pool. Further details about the new pools are given in Table 6. Before the year closed the Elm Creek West pool was joined to the Elm Creek. Other pool combinations are the Eagle Creek with the Marcotte, and Chandler with Jelinek. The Berland North pool was redescribed as the Marcotte North pool.

New producing zones were found in seven old pools during the year. The **Gra-Rook** pool, which produces from Arbuckle and Lansing, added the Pennsylvanian basal conglomerate. The **Jelinek** pool, where only Arbuckle had produced heretofore, now has some production from the Dodge (Shawnee) limestones. In the **McHale** pool, the Lansing-Kansas City group was added. The

TABLE 55.—Dry wildcat tests drilled in Rooks County during 1952

Company and farm	Location	Depth to top of LansK.C feet	top of	Total depth, feet
Lewis Drlg. Co. No. 1 Kemmler	NW1/4 NW1/4 SE1/4 7-6-17W	3,144	3,522†	3,550
*E. F. Madden et al. No. 1 Shaw	SE¼ SE¼ NW¼ 11-6-19W	3,298	3,569	3,600
Keating Drlg. Co. No. 1 Sayles	NE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ 21-7-16W	2,940	3,315	3,360
*T. M. Evans No. 1 Webster	NW1/4 NW1/4 SW1/4 5-7-17W	3,055	3,368	3,387
Lewis Drlg. Co. No. 1 Moore	SE¼ SE¼ NE¼ 10-7-17W	3,027	3,451	3,476
*Armer Drlg. Co., Inc. No. 1 Rumsey	SE¼ SW¼ NW¼ 15-7-17W	2,937	3,327	3,358
Lewis Drlg. Co. et al. No. 1 Cramer	NE¼ NE¼ SW¼ 28-7-17W	2,997	3,366	3,414
*Westgate-Greenland Oil Co. No. 1 Hindman	SE1/4 SE1/4 NW1/4 20-7-18W	3,084	3,378	3,430
Harry Koplin No. 1 Tatum	NE¼ SE¼ NW¼ 23-7-18W	2,977	3,306	3,335
*John Lindas Oil, Inc. No. 1 Roelfs	SE¼ SW¼ NE¼ 35-7-18W	3,088	3,394	3,399
Jones, Shelburne & Farmer, Inc. No. 1 Thyfault	NW1/4 NW1/4 SW1/4 29-7-20W	3,303	3,663	3,683
*Murfin Drlg. Co. No. 1 Schindler	NW ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ 16-8-17W	3,094	3,434	3,454

TABLE 55.—Dry wildcat tests drilled in Rooks County during 1952, concluded

Company and farm	Location	Depth to top of LansK.C., feet	top of	Total depth, feet
Murfin Drlg. Co. No. 1 Williams	SW¼ SW¼ SE¼ 1-8-18W	3,052	3,350	3,380
Lee Phillips Oil Co. No. 1 Thompson	SW¼ SW¼ SW¼ 28-8-18W	3,227	3,488	3,520
*Trans Era Petro., Inc. No. 1 Hayes	SE¼ SE¼ SE¼ 30-8-18W	3,235	3,502‡	3,540
*Morris Sitrin et al. No. 1 Lowry	NW¼ NW¼ NE¼ 8-8-19W	3,137	3,394	3,420
Republic Natural Gas Co. No. 1 Schneider	NW¼ NW¼ NW⅓ 10-8-19W	3,140	3,445	3,505
Murfin Drlg. Co. No. 1 Raynor	SE¼ SE¼ NW¼ 24-8-20W	3,263	3,555	3,585
B & R Drlg., Inc. No. 1 Whisman	NE¼ NE¼ SW¼ 25-8-20W	3,284	3,534	3,575
Anschutz Drlg. Co. No. 1 Berland	SE ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ 28-8-20W	3,293	3,613	3,648
*Dizdar Investment Co. No. 1 Green	NE ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ 18-9-17W	3,211	3,492‡	3,612
*Jones, Shelburne & Farmer, Inc. No. 1 Adams	NE¼ NE¼ SE¼ 30-9-17W	3,320	3,638	3,668
*Honaker Drlg. Co. No. 1 Dorland	SE¼ SE¼ NE¼ 11-10-17W	3,174	3,476	3,503
C-G Drlg. Co. No. 1 Ordway	NE¼ NE¼ NE¼ 17-10-18W	3,424	3,765	3,790

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

Simpson now produces in the Nettie pool. In the Palco Southeast pool one well found the Arbuckle dry and secured oil from the Lansing-Kansas City. The Slate pool in the northwestern part of the county now has some production from the Lansing-Kansas City limetsones. In the Zurich pool, the Shawnee was added to the list of producing zones. Additional data on the new producing zones are given in Table 7.

Data on location and tops in the dry wildcat tests are given in Table 55. A few additional data on oil shows will be of interest. The Lewis Drilling Company No. 1 Kemmler test in sec. 7, T. 6 S., R. 17 W. had a good oil show in the top of the Lansing limestone. A similar show of oil was found in the Lewis Drilling Company No. 1 Moore test in sec. 10, T. 7 S., R. 17 W. The Evans No. 1 Webster had a show of oil in the Shawnee group at 2,955 feet, 60 feet below the top. Westgate-Greenland Oil Company reports

[†]Depth to the top of the erosional Arbuckle, feet.

Depth to the top of the Pennsylvanian basal conglomerate, feet.

a show of oil in their Hindman test at 3,250 feet, 150 feet below the top of the Lansing. Farther south where the oil pools are closer together the wildcats had shows of oil at many places.

Many pool extension wells were drilled during 1952. Some of the larger amounts of new oil wells are: Burnett, 9 oil wells and 2 dry holes; Jelinek, 14 oil wells and 9 dry holes; Marcotte, 33 oil wells and 18 dry holes; and Nettie, 8 oil wells and 2 dry holes.

Locations of producing areas and dry wildcat tests are shown on Figure 5. Oil production data are given in Table 66.

RUSH COUNTY

(Map Fig. 7)

The 1952 production from 8 pools: oil 267,500 barrels, gas 1,952,923 thousand cubic feet (estimated). Wells drilled during 1952: oil 8, dry 20, total 28 including 13 wildcats. New pools discovered 3.

Developments during 1952.—In comparison with the previous year nearly twice as many test holes were drilled in Rush County during 1952; however, both oil and estimated gas production declined. The names of the new pools discovered during 1952 are the **Big Timber**, **Stegman**, and the **Timken** pools. Two produce oil from the Arbuckle dolomite and the third produces from Lansing-Kansas City limestones. Further details are given in Table 6. Two of the new pools, the **Big Timber** and the **Stegman**, were abandoned early in 1953 because of small production. The discovery well in the **Timken** pool was rated as having a capacity of 259 barrels per day.

The 13 dry wildcats are scattered over the area of the county. Some data, such as the location and selected tops, are given in Table 56. A small show of gas was found in the Overland Drilling Company No. 1 Brungardt test, sec. 4, T. 16 S., R. 17 W., at 3,538 feet in the top of the Arbuckle dolomite. Some oil was reported at 3,917 feet in the Heathman Company et al. No. 1 Campbell test, sec. 21, T. 16 S., R. 20 W.

Six extension oil wells were added to the Rush County part of the Ryan pool.

Locations of producing areas and dry wildcat tests are shown on Figure 7. Oil production is given in Table 66, and gas production in Table 67.



TABLE 56.—Dry wildcat tests drilled in Rush County during 1952

Company and farm	Location	Depth to top of anhydrite, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
Northern Pump Co. No. 1 Hopkins	NE¼ SW¼ NW¼ 10-16-16W	1,060	3,222	3,532	3,586
*Northern Ord., Inc. No. 1 Stremel	SW¼ SW¼ NW¼ 19-16-16W	1,085	3,253	3,540	3,565
*Overland Drlg. Co. No. 1 Brungardt	NW 1/4 NW 1/4 SE 1/4 4-16-17W	1,123	3,280	3,537	3,550
Heathman & Co. et al. No. 1 Campbell	NE¼ NE¼ NE¼ 21-16-20W	1,420	3,546	3,978	4,028
Lion Oil Co. No. 1 Treloggen	NE¼ NE¼ NE¼ 13-17-16W	1,102	3,321	3,611	3,645
The Texas Co. No. 1 W. J. Laughlin	NE¼ NE¼ NE¼ 35-17-19W	1,282	3,497	3,914	3,937
*Strain Drlg. Co. et al. No. 1 Irvin	SW ¹ / ₄ SW ¹ / ₄ NE ¹ / ₄ 30-17-20W	1,442	3,652	4,322‡	4,337
*E. H. Adair Oil Co. No. 1 Schneider	NE¼ NE¼ SE¼ 7-18-18W	1,265	3,515	3,738	3,963
E. H. Adair Oil Co. No. 1 O'Borny	SE ¹ / ₄ SE ¹ / ₄ SE ¹ / ₄ 13-18-18W	1,180	3,438	3,827	3.890
*Flynn Oil Co. No. 1 Tammen	NE¼ NE¼ NE¼ 8-19-16W	1,175	3,542	3,956	3,986
*Adair & Graham No. 1 Folkerts	NE¼ NE¼ NW¼ 18-19-16W	1,171	3,520	3,860	3,875
Wentworth Drlg. Co. No. 1 Gunn	NE¼ NE¼ NE¼ 31-19-17W	1,275	3,599	3,984	4,046
*D. R. Lauck Oil Co., Inc. et al. No. 1 West	SE ¹ / ₄ SE ¹ / ₄ NE ¹ / ₄ 6-19-19W	1,298	3,600	4,115	4.190

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

‡ Depth to the top of the Viola, feet.

RUSSELL COUNTY

(Map Fig. 8)

The 1952 production from 29 pools: oil 11,635,324 barrels, gas 10,147 thousand cubic feet. Wells drilled during 1952: oil 256, gas 3, dry 93, salt-water disposal 3, total 355 including 9 dry wildcats. New pools discovered 1, pools combined 4.

Developments during 1952.—The 355 wells drilled in Russell County in 1952 is 108 more than drilled in 1951. Although oil production decreased slightly, this county maintained its position as the second largest oil-producing county in the State.

The name of the one new pool is the Fay. It was found by the D. R. Lauck Oil Company No. 1 Shaffer test in sec. 2, T. 12 S. R. 15 W. The oil was found in the top part of the Arbuckle dolomite at a depth of 3,238 feet. The producing zone is 12 feet thick.



An official rating of 141 barrels of oil per day was assigned to the discovery well.

The following pool combinations took place during 1952: the Ely with the Trapp pool; and the Homer, Homer Southeast, Ehrlich, and Beaver Northwest (Barton County) with the Hall-Gurney field.

The method known as "sand fracturing" has opened production from several sands near the level of the Tarkio limestone. Many new wells in the Hall-Gurney pool are now producing from the sands above and below the Tarkio limestone. Some wells in the Gorham and western part of the Trapp pool also produce from this zone. Of the total number of new oil wells in Russell County for the year, 60 percent are Tarkio wells and more than half of these are in the Hall-Gurney pool. Nearly 30 percent of the new wells produce from the Arbuckle dolomite.

Production from Tarkio sands in earlier years (then called Indian Cave sand) was small. In sand fracturing, special sand is suspended in prepared heavy oil and pumped into the producing formation under pressure, forcing the mixture of sand and oil ing the producing sand. When the prepared oil is later removed,

TABLE 57.—Dry wildcat tests drilled in Russell County during 1952

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
*Anderson-Prichard Oil Corp. No. 1 Cook	SE1/4 SE1/4 NE1/4 24-11-15W	2,991	3,400	3,475
Flynn Oil Company No. 1 Dauber	SW¼ SW¼ NE¼ 12-13-13W	2,776	*******	2,855
*Nadel & Gussman No. 1 Dumler	NW ¹ / ₄ NW ¹ / ₄ SE ¹ / ₄ 2-13-14W	2,834	3,157	3,200
*H. A. Horwitz No. 1 Shaffer	SW¼ SW¼ NE¼ 2-13-15W	2,897	3,178	3,215
Victor Drilling Co. No. 1 Foster	NE ¹ / ₄ NE ¹ / ₄ NE ¹ / ₄ 29-14-15W	3,025	3,309	3,340
*Duke & Wood Drlg. Co. No. 1 F. E. Keil	SW1/4 SW1/4 NE1/4 32-15-14W	3,130	3,377‡	3,432
*Brunson Drlg. Co., Inc. et al. No. 1 Aley	NW¼ NW¼ NW¼ 6-15-15W	3,185	3,453	3,460
K & E Drlg., Inc. No. 1 Aley-Foster "A"	SW ¹ / ₄ SW ¹ / ₄ NE ¹ / ₄ 19-15-15W	3,055	3,349	3,398
Shelley-Miller Drlg., Inc. No. 1 Janne	SE ^{1/4} SE ^{1/4} NW ^{1/4} 21-15-15W	3,114	3,368	3,395

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

‡ Depth to the top of the Pennsylvanian basal conglomerate, feet.

the suspended sand grains remain in the producing zone holding the grains in the standstone apart and thus providing avenues of migration for the oil.

Table 57 gives locations and important tops on the nine dry wildcat tests drilled during 1952. All are in the western and southern parts of the county. Many of them had good shows of oil in the Lansing sequence of limestones and a few had shows in older rocks, especially the Arbuckle dolomite.

Locations of producing areas and dry wildcat tests are shown on Figure 7. Oil production data are given in Table 66, and gas production in Table 67. Information on the new pool is given in Table 6. Data on a secondary recovery project begun in 1952 are listed in Table 1.

SALINE COUNTY

(Map Fig. 6)

The 1952 production from 14 pools: oil 1,071,522 barrels. Wells drilled during 1952: oil 63, dry 24, total 87 including 8 dry wildcats. New pools discovered 4.

Developments during 1952.—About 15 percent fewer wells were drilled than in 1951; however, oil production showed an increase of more than 50 percent. The Smolan pool almost doubled

TABLE 58.—Dry wildcat tests drilled in Saline County during 1952

Company and farm	Location	Depth to top of Mis- sissippian, feet	Depth to top of Viola, feet	Depth to top of Arbuckle, feet	Total depth, feet
*Jones, Shelburne & Farmer, Inc. No. 1 Markley	NE¼ NE¼ NW¼ 16-13-1W	2,440	3,100	3,285	3,335
*Musgrove Petro. Corp. No. 1 Link	NW¼ NW¼ NW¼ 9-13-3W	2,851	3,530	••••••	3,674
*W. G. Burns No. 1 Shamburg	SE¼ SE¼ NE¼ 33-13-3W	2,842	3,510		3,542
Atlantic Refg. Co. No. 1 Hoeffner	SW1/4 SW1/4 SE1/4 2-14-2W	2,527	3,135	3,318	3,387
*Murfin Drlg. Co. et al. No. 1 Hoeffner	NW1/4 NW1/4 SW1/4 23-14-2W	2,683	3,345	3,509	3.523
*W. R. White No. 1 Ekstrom	NW 1/4 NW 1/4 NW 1/2 26-15-2W	2,810	•••••	******	2.817
*Murfin Drlg. Co. et al. No. 1 Millikin	SE ¹ / ₄ SW ¹ / ₄ SW ¹ / ₄ 14-15-3W	2,737	3,331	3,507	3,517
*Westgate-Greenland Oil Co. No. 1 Ade	SW ¹ / ₄ SW ¹ / ₄ NW ¹ / ₄ 11-16-1W	2,655	****	• • • • • • •	2,752

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

its 1951 production, accounting for much of the increase in the county's total production.

Wildcat drilling opened four new pools in Saline County during 1952, all rather close to older pools. They are: Gypsum Creek North, Holm North, Holm Southeast, and Salemsborg. The initial potentials on the discovery wells range from 17 to 303 barrels of oil per day. The Gypsum Creek North pool produces from the Mississippian, while the other three derive their oil from the Viola limestone.

In the Salina pool, 4 extension oil wells and 2 dry holes were added. Only 3 dry holes were added to the Smolan pool, while 39 new oil wells were drilled. The new Gypsum Creek North pool had 6 new oil wells including the discovery well. The Holm, Holm North, and Holm Southeast accounted for 10 oil wells during the year.

Only four of the dry wildcats entered the Arbuckle dolomite. None reported shows of oil or gas. The locations of these dry wildcat tests and the important marker horizons penetrated are tabulated in Table 58.

Oil production is given in Table 66. Locations of producing areas and dry wildcat tests are shown on Figure 6. The four new pools are listed in Table 6.

SCOTT COUNTY

(Map Pl. 2)

The 1952 production from 2 pools: oil 71,595 barrels, gas 40,307 thousand cubic feet. Wells drilled in 1952; oil 2, dry 5, total 7 including 3 dry wildcats.

Developments during 1952. — Oil production from Scott County's two oil pools more than doubled during 1952; one less well was drilled. One new oil well was added to the Keystone pool, where the production comes from the Lansing limestones. Some gas production was reported also from the Keystone pool. The other new oil well is in the northeastern part of the Shallow Water field, where production is from Mississippian strata.

Three dry wildcats were reported during the year. The Imperial Petroleum Company's test on Fee land, in the SW¼ NE¼ NW¼ sec. 19, T. 17 S., R. 31 W., reported shows of oil in three places within the Lansing-Kansas City group, and one within the Marmaton group of rocks. The test was abandoned at 4,685 feet



depth because of too much water. Important marker horizons encountered in drilling from an elevation of 2,969 feet above sea level are: Heebner, 3,900; Lansing, 3,940, and Mississippian, 4,585 feet depth.

From an elevation of 2,952 feet above sea level, the Flynn Oil Company test on the Harris property in the NE¼ NE¼ NE¼ sec. 29, T. 18 S., R. 32 W. encountered the following marker horizons: Heebner, 3,898; Lansing, 3,943; and Mississippian, 4,630 feet depth. Total depth was 4,785 feet.

The Parker dry wildcat test on the Franklin farm in the Cen. NW¼ NE¼ sec. 3, T. 18 S., R. 34 W., from an elevation of 3,119 feet above sea level, reported the following tops: Heebner, 4,005; Lansing, 4,056; and Mississippian, 4,766 feet depth. This test was abandoned at a total depth of 4,895 feet.

Locations of producing areas and dry wildcat tests are shown on Plate 2. Oil production data are given in Table 66, and gas in Table 67.

SEDGWICK COUNTY

(Map Fig. 12)

The 1952 production from 30 pools: oil 1,238,673 barrels including 26,733 barrels from 2 secondary recovery projects, gas 651,744 thousand cubic feet. Wells drilled in 1952; oil 20, dry 28, salt-water disposal 1, total 49 including 12 dry wildcats. New pools discovered 3, revived 1.

Developments during 1952.—During 1952, three new oil pools were discovered and one was revived. The new pools are: Crestview, Gehring-Rick, and Prairie Creek. The Eastborough North pool was revived. The Gehring-Rick pool resulted from reworking an old dry hole.

The Crestview pool was discovered by the E. B. Shawver No. 1 Holmes Estate well in sec. 1, T. 27 S., R. 1 E. Here the oil was found in the "Burgess sand" (Pennsylvanian). A potential capacity of 25 barrels of oil per day was assigned. The Eastborough North pool, discovered in 1938 and abandoned in 1947, was revived by the W. L. Hartman No. 1 Rolland well in sec. 4, T. 27 S., R. 2 W., which found oil in the Arbuckle dolomite at a depth of 3,376 feet. The original test in the Gehring-Rick pool, on the Gehring farm in sec. 16, T. 28 S., R. 2 E., found the "Burgess sand" dry. Later, the top of the Mississippian chat at 2,950 feet was found productive. The Prairie Creek pool was discov-



ered by J. P. Gaty on the Bodecker "A" lease in sec. 25, T. 25 S., R. 2 E. When the "Burgess sand" was not found, the test was drilled into Mississippian "chat," where a minimum potential was assigned to the well.

Eleven extension oil wells and 2 dry holes were added to the Sedgwick County part of the **Bartholomew** pool. The other extension oil wells were well scattered throughout the county's other producing pools.

Of 28 dry holes drilled during the year in the county, 12 were wildcats. The Champlin Refining Company No. 1 Caple test in sec. 19, T. 25 S., R. 2 W., was drilled 26 feet into the Arbuckle dolomite. Several drill-stem tests were unsuccessful. Another test by Champlin on the Peltzer farm in sec. 15, T. 27 S., R. 3 W., entered the Arbuckle dolomite. The dry wildcat test drilled by the Pabco Drilling Company 7 miles east of the Bartholomew

TABLE 59.—Dry wildcat tests drilled in Sedgwick County during 1952

Company and farm	Location	Depth to top of Lansing, feet	Depth to top of Mis- sissippian, feet	Depth to top of Arbuckle, feet	Total depth, feet
*Saturn Drlg., Inc. No. 1 Mark	NW¼ NW¼ SE¼ 26-25-1E	2,261	3,009	3,580	3,590
*Morrison Drlg. Co., Inc. No. 1 Lee	SE¼ SW¼ SE¼ 33-25-1E	2,325	3,068	3,590	3,609
*Charles Carlock No. 1 Penner	NE¼ NE¼ SW¼ 20-25-2E	2,530†	3,014		3,034
*Charles Carlock No. 1 Hunter	SW¼ SW¼ NE¼ 31-25-2E	2,567†	3,059		3,066
J. P. Gaty No. 1 Clark	SE¼ NW¼ SE¼ 2-26-1E	2,325	3,047	3,580	3,625
*Earl F. Wakefield No. 1 Long	SW¼ NE¼ SW¼ 31-29-1E	2,803†	3,330	3,825‡	3,875
*Sunray Oil Corp. No. 1 Farber	SW¼ SW¼ NE¼ 29-29-2E	2,636†	3,124	3,544‡	3,585
Champlin Refg. Co. No. 1 E. M. Caple	SE¼ SE¼ NW¼ 19-25-2W	2,593	3,414	4,046	4,072
Champlin Refg. Co. No. 1 Peltzer	NE¼ NE¼ SE¼ 15-26-3W	2,704	3,529	4,097	4,120
*Pabco Drlg., Inc. No. 1 Kramer	NE¼ NW¼ NW¼ 33-27-3W	2,819	3,694	4,167‡	4,201
*J. R. Greeley Drlg. Co. No. 1 Chesney	SE¼ NW¼ SE¼ 23-28-4W	2,877			3,150
*Saturn Drlg., Inc. No. 1 Walker	SE¼ SE¼ NE¼ 16-29-1W	2,542	3,404		3,461

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other

Depth to the top of the Simpson, feet.

available data sources have been used.

† Depth to the top of the Kansas City, feet.

pool on the Kramer farm in sec. 33, T. 27 S., R. 3 W. had a fair show of oil just below the top of the Viola limestone.

Locations of producing areas and dry wildcat tests are shown on Figure 12. Oil production data are given in Table 66, and gas in Table 67. Data on the two secondary recovery projects are listed in Table 1. Data on the new and revived pools are listed in Table 6. Dry wildcat tests are tabulated in Table 59.

SEWARD COUNTY

(Map Pl. 2)

The 1952 production from 7 pools: oil 61,856 barrels, gas 4,540,552 thousand cubic feet, exclusive of production from the Hugoton Gas Area, not segregated as to counties. Wells drilled in 1952: oil 1, gas 11, dry 5, total 17 including 2 dry wildcat tests. New pools discovered 3.

Developments during 1952.—Although drilling activity decreased more than half, three new pools were discovered, oil production doubled, and gas production from areas exclusive of the Hugoton Gas Area more than doubled.

The new pools are the **Kismet South** (oil) and **Hawks** and **Liberal-White** gas pools. The **Kismet South** oil pool was discovered by the Flynn Oil Company No. 1 Jury well in sec. 26, T. 33 S., R. 31 W. Production comes from Mississippian strata at 5,770 feet depth, 200 feet below the top. The **Hawks** gas pool was discovered when an old well on the Lofland-Hawks property in sec. 18, T. 35 S., R. 31 W. worked over by the J. M. Huber Oil Corporation found 3.5 million cubic feet of gas in Morrowan rocks. This pool was discovered in July 1951, but was not officially named and recognized until 1952. The **Liberal-White** gas pool was discovered by Northern Ordnance, Incorporated, on the White lease in sec. 35, T. 34 S., R. 32 W. Production is from the Morrowan rocks also.

During the year, the **Light** pool, discovered in 1951, was renamed the **Liberal-Light** pool by the official Kansas Nomenclature Committee.

A dry wildcat test drilled during the year was put down by Lansekan et al. on the Good property in the W½ NE¼ NW¼ sec. 16, T. 34 S., R. 31 W., to a total depth of 5,959 feet. The test is 3 miles south of the **Kneeland** pool. Important tops encountered in drilling from an elevation of 2,519 feet above sea level are:



Lansing limestones, 4,307 (?); Marmaton group, 5,002; and Mississippian strata, 5,570 feet depth.

In the Columbian Fuel Corporation No. 1 Adams "H" test in sec. 25, T. 34 S., R. 31 W., drill-stem tests in the known producing zone of the **Kneeland** pool were unsuccessful. The gas wells added to the Hugoton Gas Area in Seward County are concentrated in the northern half of the county.

Seward County wells are shown on Plate 2. Gas production is given in Table 67 and oil production in Table 66. The pertinent information on the new oil and gas pools is listed in Table 6. Additional data on the Hugoton Gas Area are given in the chapter on natural gas.

SHERIDAN COUNTY

(Map Fig. 4)

The 1952 production from 5 pools: oil 394,353 barrels. Wells drilled in 1952: oil 1, dry 19, total 20 including 14 dry wildcats. New pools discovered 2.

Developments during 1952.—Two new oil pools were named, although the discovery well of one, the Moss, was declared dry and abandoned.

The one successful wildcat drilled during the year opened the new George pool in sec. 17, T. 9 S., R. 26 W., about 4 miles south of the Studley Southwest pool. The Graham-Messman-Rinehart Oil Company tested the top of the Mississippian before plugging back to make the producer from the Lansing-Kansas City group from 4,023 to 4,034 feet depth on the George Mills property.

Six of the 14 dry wildcat tests put down in Sheridan County during 1952 reported shows of oil or gas. The test on the Wyant farm in sec. 25, T. 6 S., R. 30 W., drilled by the Anschutz Drilling Company reported a show of oil in the Marmaton group at 4,366 feet depth. Anschutz found a show of oil 32 feet below the top of the Lansing limestone in the Andregg test in sec. 2, T. 7 S.. R. 26 W. In the Anschutz Drilling Company test on the Dally farm in sec. 10, T. 8 S., R. 30 W., a trace of oil was found near the top of the Lansing limestone. A show of oil in the Pennsylvanian basal conglomerate at 4,330 feet depth, 125 feet above the top of Mississippian rocks, was found by Anschutz Drilling



TABLE 60.—Dry wildcat tests drilled in Sheridan County during 1952

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Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth. feet
*Fmpire Drlg. Co. et al. No. 1 Ward	SW¼ SW¼ SW¼ 13-6-26W	2,615	3,710	4,197	4,248
*Anschutz Drlg. Co. No. 1 Wyant	N2 N2 NE ¹ / ₄ 25-6-30W	2,896	3,996	4,566‡	4,585
Anschutz Drlg. Co. No. 1 Andregg	NW¼ NW¼ NW¼ 2-7-26W	2,598	3,782	4,468	4,472
Herndon Drlg. Co. No. 1 Barnett	NW¼ NW¼ SE¼ 5-7-26W	2,627	3,812	4,344‡	4,523
Anschutz Drlg. Co. No. 1 Phillips & Marshall	SW¼ SW¼ SW¼ 30-7-26W	2,634	3,842	4,412‡	4,515
*Anschutz Drlg. Co. No. 1 F. Andregg	SW¼ SW¼ NW¼ 11-8-26W	2,530	3,748	4,290‡	4,364
*Carl Todd Drlg. Co. et al. No. 1 Harris	SW¼ SW¼ SE¼ 35-8-27W	2,622	3,776	4,327‡	4,365
Anschutz Drlg. Co. et al. No. 1 Dally	SW¼ SW¼ SE¼ 10-8-30W	2,939	4,068	4,628‡	4,735
*Victor Drlg., Inc. No. 1 Baalman	SW¼ SW¼ SW¼ 3-9-30W	2,942	4,015	4,566‡	4,644
B & R Drlg., Inc. No. 1 Carder	NE¼ NE¼ SE¼ 2-10-26W	2,574	3,835	4,553	4,617
Victor Drlg., Inc. No. 1 Zerr	NE¼ NE¼ NW¼ 9-10-27W	2,694	3,852	4,662	4,680
Prime Drlg. Co. et al. No. 1 Falloon	SE¼ SE¼ NE¼ 19-10-27W	2,658	3,793	4,607	4,630
Armer Drlg. Co., Inc. et al. No. 1 Bieker	NW¼ NW¼ NE¼ 15-10-28W	2,745	3,852	4,670	4,691
Anschutz Drlg. Co. et al. No. 1 Rupp	NW¼ NW¼ NW¼ 21-10-28W	2,740	3,863	4,430‡	4,560

^{*} No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

‡ Depth to the top of the Mississippian, feet.

Company in their test on the Rupp farm in sec. 21, T. 10 S., R. 28 W.

The locations of the producing areas and dry wildcat tests are shown on Figure 4. The new pools are listed in Table 6. Oil production data are given in Table 66. Data on the dry wildcat tests are summarized in Table 60.

SHERMAN COUNTY

Wildcat wells have been drilled from time to time in Sherman County, but so far no oil or gas pool has been found.



Exploration during 1952.—One new attempt to find production was made in Sherman County during 1952. Kingwood Oil Company and Aurora Gasoline Company tested to the Arbuckle dolomite on the Rauckmann farm in the SE¼ SE¼ NE¼ sec. 11, T. 8 S., R. 40 W. From an elevation of 3,707 feet above sea level, the following formations were encountered: Morrison clays, 2,547; Stone Corral anhydrite, 3,176; Herington limestone, 3,315; Ft. Riley limestone, 3,420; Topeka limestone, 4,184; Heebner shale, 4,330; Lansing-Kansas City group, 4,380; Marmaton group, 4,782; Cherokee group, 4,970; Mississippian strata, 5,200; and Arbuckle dolomite, 5,471 feet depth. A drill-stem test between 4,114 and 4,120 feet depth recovered some oil, but too much water to make a commercial well.

SMITH COUNTY

Wildcat wells have been drilled in Smith County from time to time, but as yet no oil or gas pool has been found.

Exploration during 1952.—One attempt to find production was made in Smith County during 1952. The rank wildcat test was put down by the Wakefield Drilling Company on the Stockton farm in the SW¼ SW¼ SW¼ sec. 26, T. 2 S., R. 15 W., to a total depth of 3,900 feet. From an elevation of 1,852 feet above sea level, this test is reported to have found the following formations: Topeka limestone, 2,772; Heebner shale, 3,003; Lansing limestones, 3,050; Mississippian strata, 3,670; "Hunton" limestone, 3,725; and Viola limestone, 3,785 feet depth. No shows of oil or gas were reported.

STAFFORD COUNTY

(Map Fig. 10)

The 1952 production from 123 pools: oil, 6,462,936 barrels, gas 1,373,846 thousand cubic feet. Wells drilled in 1952: oil 152, gas 4, dry 150, salt-water disposal 4, total 310 including 15 dry wild-cats. New pools discovered: oil 23, gas 2, total 25. Pools combined 4.

Developments during 1952.—The same number of new oil and gas pools were discovered in Stafford County during 1952 as during 1951. Oil production increased by a little more than 126,000 barrels.



Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Penn. basal congl., feet		Total depth, feet
Shelley-Miller Drlg., Inc. No. 1 Fair	SE¼ SE¼ SE¼ 23-21-11W	3,092	3,380	3,500	3,530
Walters Drlg. Co. No. 1 Hamilton	SE¼ SE¼ NE¼ 2-22-11W	3,133	3,426	3,534	3,564
The Palmer Oil Corp. No. 1 "A" Fair	NW¼ NW¼ NE¼ 8-22-11W	3,196	3,488	3,586	3,605
*Buick Drlg., Inc. No. 1 Beckerdite	NW¼ NW¼ SE¼ 11-22-11W	3,155	3,440	3,575	3,600
*Lewis Drlg. Co. No. 1 Herrell	SW¼ SE¼ NE¼ 34-22-11W	3,240	3,570	3,672	3,700
*Armer Drlg. Co., Inc. No. 1 Soeken	NW¼ NW¼ NW¼ 20-22-13W	3,447		3,850	3,901
Armer Drlg. Co., Inc. No. 1 Reed	SW¼ SW¼ SE¼ 12-23-11W	3,270	3,638	3,744	3,785
Armer Drlg. Co., Inc. No. 1 McGill	SE¼ NE¼ SW¼ 15-23-12W	3,365	3,680	3,817	3,892
Armer Drlg. Co., Inc. No. 1 Smolik	NE¼ NE¼ SW¼ 24-23-13W	3,454	3,782	3,918	3,969
Jackson Drlg. Corp. No. 1 Sutton	SE¼ SE¼ SW¼ 6-23-14W	3,568	••••	4,072	4,105
John Lindas Oil, Inc. No. 1 Batchman	SW¼ SW¼ NE¼ 25-23-14W	3,569	3,939	4,062	4.075
*John Lindas Oil, Inc. No. 1 Asher	SW¼ SW¼ NE¼ 35-24-13W	3,591		4,184	4,210
K & E Drlg., Inc. et al. No. 1 Jenkins	SW¼ SW¼ SW¼ 9-25-12W	3,571	3,930	4,156	4,188
Westgate-Greenland Oil Co. No. 1 Roy Wilson	SW1/4 NE1/4 NE1/4 6-25-14W	3,752	4,129	4,396	4,440
*Alpine Oil & Royalty Co., Inc. No. 1 Wilson	SW 1/4 SW 1/4 NW 1/4 19-25-14W	3,762	4,179	4,435	4,504

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

The new gas pools are the Farmington West, with an initial potential of more than 4.1 million cubic feet per day, and the Hill, with initial capacity of about 4.7 million cubic feet per day. The new oil pools are the Brunselmeyer, Crissman, Crissman North, Curtis West, Grow West, Happy Valley, Helene, Hickman South, Hudson, Koelsch, Koelsch Southeast, Lincoln Northwest, Mt. View, North Star, Oscar West, Pleasant Grove, Rose Valley, St. John North, St. John Northwest, Strobel, Strobel Northwest, Syms Southeast, and Taylor. The initial capacities of the discovery wells of these new oil pools ranged from the minimum (25 barrels per day) to the maximum (3,000 barrels per day) set

by the State Corporation Commission. The Lansing-Kansas city group produces in 12 of the new pool discoveries and the Arbuckle dolomite in 9. One of the new oil pools, the **Grow West**, was found to be an extension of an older pool, **Hazel West**, and was combined before the end of the year.

Other pool combinations effective during 1952 are the Mueller Northwest with the Mueller, the Drach Northwest with Gates South, and the Eric with the Dell East.

Twelve new producing zones in old oil fields were described during 1952. The pertinent data on depth, production, and zone are listed in Table 7. Stafford County led all other Kansas Counties in this phase of development as it did in the number of new pools discovered during 1952.

Of the producing pools in Stafford County, 63 had at least one oil well completed during 1952. The Fischer Northwest pool had 10 oil wells and 3 dry holes; Gates South had 9 oil wells and 2 dry holes; Eden Valley, 8 oil wells and 2 dry holes; Mueller, 7 oil wells, 6 dry holes, and 1 salt-water disposal well; and Smallwood, 7 oil wells, 4 dry holes, and 1 salt-water disposal well.

Of 28 old wells worked over in Stafford County, 17 were converted to oil wells, 2 to gas wells, 2 to salt-water disposal, and 7 were dry. The gas wells added by working over old wells were in the **Bradbridge** and **Gates** pools.

Six of the 15 dry wildcat tests reported shows of oil or gas. Two tests specifically reported no shows. These are the Armer Drilling Company No. 1 McGill test in sec. 15, T. 23 S., R. 12 W. and the Armer No. 1 Smolik test in sec. 24, T. 23 S., R. 13 W. In the Jackson Drilling Corporation No. 1 Sutton test in sec. 6, T. 23 S., R. 14 W., some free oil was recovered in a test from 3,764 to 3,776 feet depth. Further testing resulted in too much water. The 15 dry wildcat tests are described in Table 61.

The new pools are listed in Table 6, the new producing zones in old fields in Table 7. Locations of producing areas and dry wildcat tests are shown on Figure 10. Oil production data are given in Table 66 and gas production data in Table 67.

STANTON COUNTY

(Map Pl. 2)

The 1952 production—all from the Hugoton Gas Area—not segregated as to counties. Wells drilled in 1952; total 7 (all gas).



Developments during 1952.—Seven gas wells were added to the Stanton County part of the Hugoton Gas Area. Three of these wells were completed by the United Producing Company and the other four by Stanolind Oil and Gas Company. The initial potential of these new wells ranged from less than 0.5 million cubic feet to more than 12 million cubic feet per day.

Stanton County wells are shown on Plate 2. Gas production and the producing zones are listed under Hugoton in Table 67. Additional data on the Hugoton Gas Area are given in the chapter on natural gas.

STEVENS COUNTY

(Map Pl. 2)

The 1952 production—all from the Hugoton Gas Area—not segregated as to counties. Wells drilled in 1952: total 17 (all gas).

Developments during 1952.—Stevens County, lying in the south edge of the Kansas part of the Hugoton Gas Area, originally had 792 available locations for gas wells (one well per section). Gas wells have been drilled in every township in this county. At the beginning of 1952 approximately 50 locations were available for new wells; 17 new Permian gas wells were completed during the year.

Of the 17 new gas wells, 13 were completed by the Hugoton Production Company. The wells range in initial potential from 1.6 million to 42.9 million cubic feet of gas per day. The average initial potential of these new wells is more than 24 million cubic feet per day.

Stevens County wells are shown on Plate 2; gas production, the active area, and producing zones are shown under Hugoton in Table 67. Additional data on the Hugoton Gas Area are given in the chapter on natural gas.

SUMNER COUNTY

(Map Fig. 12)

The 1952 production from 31 pools: oil 1,811,250 barrels including 5,000 barrels from 1 secondary recovery project, gas not reported. Wells drilled in 1952: oil 27, dry 46, salt-water disposal 3, total 76 including 21 dry wildcats. New pools discovered 2, revived 1.



Company and farm	Location	Depth to top of "Stalnaker," feet	Depth to top of Mis- sissippian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Natl. Assoc. Petro. Co., No. 1 Zimmerman	SE¼ SW¼ SE¼ 32-31-1E	2,595	3,555	4,100	4,121
*The El Dorado Refg. Co. No. 1 Slack	NE¼ NW¼ SW¼ 14-31-2E	2,230	3,179	3,618	3,668
*Earl F. Wakefield No. 1 Messner	NE ¹ / ₄ NE ¹ / ₄ SW ¹ / ₄ 36-33-1E	2,547	3,577		3,640
*L. B. Jackson No. 1 J. O. Yeager	SE¼ SE¼ SE¼ 12-33-2E	2,230	3,263		3,330
*Herndon Drlg. Co. No. 1 Alcorn	SE¼ NE¼ NE¼ 33-34-1E	2,660	3,726		4,070
Frank Murton No. 1 Gurley	NE¼ NE¼ NE¼ 3-35-1E	2,555	3,720		4,062
Hill & Hill et al. No. 1 La Force	SE¼ NW¼ NW¼ 9-30-1W	2,565	3,462		3,851
*W. L. Hartman No. 1 Corn	SE¼ SE¼ SE¼ 19-30-2W	2,847	3,773	4.305	4,330
W. L. Hartman No. 1 Vesta Corn	NE ¹ / ₄ SE ¹ / ₄ SW ¹ / ₄ 19-30-2W	2,932	3,758	4,282	4,310
The Texas Co. No. 1 O. J. Ziegler	SW¼ SW¼ NE¼ 10-30-3W	2,883	3,790	4,378	4,410
*Jackson Drlg. Co. No. 1 Luella Stewart Estate	NW¼ NW¼ NW¼ 4-30-4W	3,200	4,012	•••••	4,114
Earl F. Wakefield No. 1 Proud	NW¼ NW¼ SW¼ 4-31-1W	2,675	3,622	4,073	4,100
*Alpine Oil & Royalty Co., Inc. No. 1 Lonnberg	SW¼ SW¼ NW¼ 14-31-1W	2,693	3,650	4,153	4,165
*Natl. Coop. Ref. Assn. No. 1 Dennison	S2 S2 SE ¹ / ₄ 10-31-2W	2,820	3,786	4,301	4,360
*Morrison Drlg. Co., Inc. No. 1 Botkin	NW¼ SW¼ SE¼ 26-31-2W	2,797	3,800		4,245
W. L. Hartman No. 1 Hamilton	NW¼ NW¼ SE¼ 6-31-4W	3,219	4,149	4,702	4,742
*Carl Hipple Oil Co. No. 1 Stewart Estate	SE¼ SE¼ SE¼ 35-32-4W	2,989	4,017	4,536	4,560
Dunne & Strait Drlg. Co. No. 1 Rohrer	SE¼ SE¼ SE¼ 22-33-3W	•••••	4,048		4,523
*Aylward Drlg. Co. No. 1 Koblitz	NE¼ SE¼ SW¼ 24-34-1W	2,814	3,905	4,402	4,445
Time Petro. Co. No. 1 City of South Haven	N2 NW¼ SW¼ 35-34-1W	2,860	3,934	4,406	4,434
The Texas Co. No. 1 M. E. Kloefkorn	SE¼ NW¼ NW¼ 33-34-3W	3,185	4,336		4,821

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



Developments during 1952. — Oil production in Sumner County increased by more than 150,000 barrels. Drilling activity in the county decreased comparatively, but the number of wildcat tests attempted increased.

The Caldwell Northwest pool was discovered by the Mid-Continent Petroleum Corporation No. 1 Seltzer test in sec. 8, R. 35 S., R. 3 W., where Simpson production was found. The Caldwell pool to the southwest also produces from Simpson rocks. The W. J. Coppinger No. 1 Brann-Martin test opened the Slate Creek pool, with Lansing production. The revived Hunnewell pool, which was discovered in April of 1927 and produced some gas from the Lawrence formation, was reopened by the Herndon Drilling Company No. 1 Kerr well in sec. 18, T. 35 S., R. 1 E., finding oil production in Mississippian strata. The test was carried to the Simpson sandstone, but later plugged back to the Mississippian.

Two new producing zones in older oil fields were officially described during the year. The Lansing-Kansas City group of rocks was designated as a new zone in the **Anson** pool, and the **Arbuckle** dolomite in the **Guelph** pool.

Eight of the 21 dry wildcat tests reported shows of oil or gas. The Texas Company test on the Ziegler farm in sec. 10, T. 30 S.. R. 3 W., reported shows of oil in the Lansing-Kansas City group, Mississippian strata, and the Simpson sandstone. The National Cooperative Refinery Association No. 1 Dennison test in sec. 10, T. 31 S., R. 2 W., reported shows in the top portion of the Mississippian rocks. The Time Petroleum Company No. 1 City of South Haven test in sec. 35, T. 34 S., R. 1 W. had a show of oil at 3,568 feet depth in the "Layton sand."

The largest development program in the county during the year was in the **Guelph** pool, where 13 oil wells and 2 dry holes were completed. The other oil wells were scattered throughout the county.

The new and revived pools are listed in Table 6; new producing zones in old oil fields are given in Table 7. Locations of producing areas and dry wildcat tests are shown on Figure 12. Data on dry wildcats are given in Table 62. Oil production is listed in Table 66. Data on the one secondary recovery project, the Wellington unit, are given in Table 1.



THOMAS COUNTY

The 1952 production from the county's first pool: oil 1,208 barrels. Wells drilled in 1952: oil 1, dry 4 (all wildcats), total 5. New pool discovered 1.

Developments during 1952.—During 1952, Thomas County was added to the Kansas oil producing counties. The county's first pool was discovered by Trans-Tex Drilling Company on the Keller farm in sec. 19, T. 9 S., R. 32 W. Drilled from an elevation of 3,109 feet above sea level to a total depth of 5,100 feet, the well ended in the Arbuckle dolomite. Commercial oil production was found in Mississippian strata from 4,680 to 4,684 feet depth. The new pool was named the Mingo, because of its proximity to the town of Mingo.

The electric log of the well as interpreted by William McHugh is as follows: Greenhorn limestone, 1,429; Dakota group, 1,575; Morrison formation, 2,128; Permian redbeds, 2,252; Cedar Hills sandstone, 2,387; Stone Corral dolomite, 2,650; Ft. Riley limestone, 3,071; Topeka limestone, 3,861; Heebner shale, 4,040; Lansing limestones, 4,079; Mississippian strata, 4,654; Viola limestone, 5,002; and Arbuckle dolomite, 5,042 feet depth.

Four dry wildcat tests drilled in Thomas County were unsuccessful. These tests are listed in Table 63. Three of the four tests stopped in Mississippian rocks. The Ashland Oil and Refining Company No. 1 Misner test in sec. 33, T. 8 S., R. 32 W. found a show of oil at 4,052 feet depth, in the Toronto limestone.

The new pool is described in Table 6, and oil production from the pool is given in Table 66.

TABLE 63.—Dry wildcat tests drilled in Thomas County during 1952

Company and farm	Location	Surface eleva- tion, feet			Depth to top of Mis-	Total depth, feet
Ashland Oil & Refg. Co. No. 1 Misner	NE½ NE¼ NE¼ 33-8-32W	3,082	2,680	4,088	4,664	5,033
Wycoff & Williams No. 1 B. Chase	NE ¹ 4 NE ¹ 4 SE ¹ 4 1-9-33W	3,110	2,690	4,096	4,670	4,833
H. K. Riddle No. 1 Albers	NW¼ NW¼ NE¼ 26-10-32W	3,051	2,610	4,066	4,670	4,770
D. R. Lauck Oil Co., Inc. No. 1 Stover	SW ¹ / ₄ SW ¹ / ₄ NE ¹ / ₄ 29-10-35W	3,326	2,818	4,186	4,892	4,995

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



TREGO COUNTY

(Map Fig. 9)

The 1952 production from 14 pools: oil 801,645 barrels. Wells drilled in 1952: oil 55, dry 50, salt-water disposal 2, total 107 including 27 dry wildcats. New pools discovered 5, combined 1.

Developments during 1952.—Drilling activity increased about 25 percent and production tripled. Wildcat activity was widespread, resulting in five new oil pools being discovered during the year. These new pools are the Ellis South, Groff, Nieden, Ridgeway, and Sunny Slope. Initial production in these new pools ranges from 42 to 248 barrels of oil per day. The discovery wells of these new pools are listed in Table 6. Four different formations, the Arbuckle dolomite, Mississippian strata, Pennsylvanian basal conglomerate, and Marmaton group, produce between drilling depths of 3,800 and 3,900 feet.

The Texas Company was successful in opening a new producing zone in an old oil field, the **Ridgeway**, with their completion of Lansing-Kansas City production in their No. 3 Schoenthaler well in sec. 26, T. 12 S., R. 21 W.

The Ogallah pool is the county's largest oil pool. During 1952, the Ogallah West pool, also producing from Arbuckle dolomite, was combined with the Ogallah. Eight dry holes and 36 oil wells were added in 1952. The extension wells ranged in size from less than 100 to 3,000 barrels of oil per day. The Ogallah pool accounted for 70 percent of Trego County's 1952 production.

Only 6 of the 27 dry wildcat tests indicated shows of oil or gas, and only 2 did not penetrate the Arbuckle dolomite. The Prime Drilling Company test on the Kircheck farm in sec. 7, T. 11 S., R. 22 W., had free oil in the Arbuckle dolomite at 3,920 feet depth, but not in sufficient quantities to make a well. The Bongarf test by Jones, Shelburne & Farmer in sec. 31, T. 13 S., R. 21 W. reported a good show of oil 75 feet above the top of the Arbuckle dolomite. The dry wildcats are listed in Table 64.

TABLE 64.—Dry wildcat tests drilled in Trego County during 1952

Company and farm	Location	Surface eleva- tion. feet	Depth to top of anhydrite feet	top of	Depth to top of Arbuckle, feet	Total depth. feet
*Jones, Shelburne & Farmer Inc. No. 1 Monroe	NW¼ NW¼ NW¼ 8-11-21W	2,158	1,635	3,459	3,825	3,865
*Aurora Gasoline Co. No. 1 Osborn	SW ¹ / ₄ SW ¹ / ₄ NE ¹ / ₄ 9-11-21W	2,113	1,575	3,406	3,818	3,845

Aurora Gasoline Co. No. 1 Osborn "A"	SE¼ SE¼ SW¼ 17-11-21W	2,262	1,740	3,569	3,968	3,986
*Aurora Gasoline Co. No. 1 Osborn-Monroe "A"	SW¼ SW¼ SE¼ 21-11-21W	2,297	1,650	3,608	4,033	4,070
Prime Drlg. Co. No. 1 Kircheck	NW¼ NW¼ NE¼ 7-11-22W	2,226	1,695	3,498	3,920	3,943
*Armer Drlg. Co., Inc. No. 1 Brown	SW¼ SW¼ SW¼ 24-11-25W	2,475	2,080	3,816	4,372†	4,444
*Armer Drlg. Co., Inc. No. 1 Weissbeck	SW¼ SW¼ SE¼ 33-11-25W	2,577	••••••	3,903	4,685	4,725
Peel-Hardman Oil Pro- ducers No. 1 Marquand	SE¼ SE¼ NE¼ 17-12-21W	2,287	1,719	3,588	3,975	4,025
Lee Phillips Oil Co. No. 1 Rinker	NW¼ NW¼ NW¼ 9-12-22W	2,369	1,805	3,654	4,093	4,143
Barnett Oil Co. No. 1 Benson	SW¼ NW¼ NW¼ 16-12-22W	2,360	1,790	3,663	4,126	4,156
*Lewis Drlg. Co. No. 1 Marquiss	NE¼ NW¼ NW¼ 18-12-22W	2,411	1,823	3,668	4,125	4,159
Graham-Messman-Rinehart Cil Co. No. 1 Hixson	SE¼ SE¼ NW¼ 11-12-23W	2,423	1,847	3,675	4,154	4,185
*Wick's Petro. Co. No. 1 Strain	NE¼ NW¼ NE¼ 27-12-23W	2,389	*******	3,738	4,442	4,510
Victor Drlg., Inc. No. 1 Lorimer	SE¼ SE¼ SW¼ 26-12-25W	2,478	2,050	3,822	4,603	4,640
*Earl F. Wakefield et al. No. 1 Petty	NE¼ NE¼ SW¼ 19-13-21W	2,246	1,680	3,603	4,000	4,050
*Jones, Shelburne & Farmer Inc. No. 1 Bongarf	NW¼ NW¼ NE¼ 31-13-21W	2,356	1,773	3,732	4,205	4,230
*Jones, Shelburne & Farmer Inc. No. 1 Gilson	SE¼ SE¼ SE¼ 33-13-21W	2,267	1,650	3,623	4,036	4,067
Sohio Petro. Co. No. 1 Herman "B"	SE¼ SW¼ SW¼ 34-13-21W	2,280	1,660	3,628	4,044	4,200
*Don E. Pratt et al. No. 1 Hamburg	SE¼ NW¼ SE¼ 10-13-22W	2,299	1,743	3,699	•••••	4,100
*Maybrier & Castle No. 1 Mong	SW¼ SW¼ NE¼ 27-13-22W	2,316	1,880	3,711	4,254	4,300
Deep Rock Oil Corp. No. 1 Winona "A"	SW¼ SW¼ SW¼ 29-13-22W	2,420	1,880	3,815	4,458	4,535
Jones, Shelburne & Farmer Inc. No. 1 Waggoner	NE¼ NE¼ NW¼ 25-14-21W	2,121	1,440	3,497	3,884	3,935
*Jones, Shelburne & Farmer Inc. No. 1 Zerfas	SE¼ SE¼ SE¼ 9-14-22W	2,360	1,670	3,660	4,260	4,315
*Jones, Shelburne & Farmer Inc. No. 1 Deinse	NE¼ NE¼ SW¼ 15-14-24W	2,265	1,685	3,593	4,430	4,453
*Jones, Shelburne & Farmer Inc. No. 1 Abell	SW1/4 SW1/4 SW1/4 27-14-24W	2,196	1,610	3,528	4,340	4,410
Armer Drlg. Co., Inc. No. 1 Nicholson	SW1/4 SW1/4 SW1/4 4-15-21W	2,164	1,507	3,569	4,137	4,187
Kenneth A. Ellison No. 1 Ryan	SE¼ SE¼ NE¼ 21-15-22W	2,918	1,550	3,608	4,295	4,352

No electric log available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



[·] Depth to the top of the Mississippian, feet.

Locations of producing areas and dry wildcat wells are shown on Figure 9. The new producing zone in the **Ridgeway** field is listed in Table 7. Oil production data are given in Table 66.

WABAUNSEE COUNTY

(Map Pl. 1)

The 1952 production from 5 fields: oil 333,294 barrels. Wells drilled in 1952 (reported): oil 1, dry 2 (wildcats), total 3.

Developments during 1952.—Oil production in Wabaunsee County was somewhat less than in 1951. For the first year since 1949 no pool was discovered in the county. Only two wildcat wells were drilled.

The Carter Oil Co. No. 1 Buchli well in the SE¼ SW¼ SE¼ sec. 2, T. 15 S., R. 10 E., in the Woodbury field, was rated as having an initial daily production of 122 barrels of oil. It was completed in October. One old well, the Alf M. Landon No. 1 Waugh, SE1/4 SE¼ NW¼ sec. 11, T. 13 S., R. 12 E., was worked over but abandoned. The Carter Oil Co. No. 1 Davison well, SW1/4 NW1/4 SE¼ sec. 8, T. 14 S., R. 10 E., was drilled to a depth of 3,394 feet. These tops were reported: Lansing, 1,576; Kansas City, 1,720; Mississippian, 2,552; Kinderhookian, 2,860; "Hunton," 3,039; Maquoketa, 3,182; Viola, 3,260; Decorah, 3,324; and Simpson, 3,342 feet.

The second dry wildcat well drilled in Wabaunsee County in 1952 is the Valley Steel Company No. 1 Mayer, SE¼ SE¼ NW¼ sec. 32, T. 14 S., R. 10 E. The total depth is 3,396 feet with tops as follows: Lansing, 1,631; Kansas City, 1,790; Mississippian, 2,594; Kinderhookian, 2,910; "Hunton," 3,065; Maquoketa, 3,196; Viola, 3,261; and Simpson, 3,242 feet.

Locations of the two dry wildcat wells drilled in Wabaunsee County in 1952 and areas that produce oil are shown on Plate 1.

Oil production statistics in the Wabaunsee County fields are listed in Table 66.

WALLACE COUNTY

Wildcat wells have been drilled in Wallace County from time to time but so far no producing pool has been discovered.

Exploration during 1952.—During 1952 three tests were attempted in Wallace County. These are the first holes drilled in



the county since 1945. Flynn Oil Company, F. W. Wyant, et al. made the first attempt in 1952 on the Pearce farm in the NW¼ NW¼ SW¼ sec. 4, T. 14 S., R. 42 W. The dry hole was drilled to a total depth of 5,063 feet, from an elevation above sea level of 3,354 feet. An interpretation of the electric log of this well is as follows: Stone Corral dolomite, 2,534; Topeka limestone, 3,708; Heebner shale, 3,894; Lansing limestones, 3,942; base of the Kansas City limestones, 4,323; Marmaton group, 4,338; Cherokee group, 4,514; and the Mississippian (Ste. Genevieve formation), 4,780 feet.

The year's second test in Wallace County was drilled by Rexall Drilling Company for Bigsby and McKubbin on the Hill lease in the Cen. SW¼ SE¼ sec. 36, T. 11 S., R. 42 W. The corrected elevation was given as 3,734 feet above sea level, and the well was drilled to a total depth of 5,215 feet. Important marker horizons encountered in drilling according to the electric log are: Lansing, 4,250; Cherokee, 4,715; Morrowan, 4,956; and Mississippian, 5,093 feet depth.

The third well, on the Worley farm in the SW¼ NE¼ SE¼ sec. 27, T. 12 S., R. 42 W., was drilled by H. K. Riddle. Top card information on this dry test is as follows: Morrison, 2,468; Blaine, 2,820; Stone Corral, 3,050; Lansing, 4,600; Marmaton, 4,890; Cherokee, 5,062; and Mississippian, 5,277 feet depth. No shows were encountered in drilling this test to a total depth of 5,590 feet.

WICHITA COUNTY

Wildcat wells have been drilled in Wichita County from time to time but so far no producing pool has been discovered.

Exploration during 1952.—During 1952 one dry wildcat test was drilled in Wichita County. The test was put down by the B & R Drilling Company on the Darbro ranch in the SW¼ SW¼ NE¼ sec. 32, T. 20 S., R. 38 W. Drilling to a total depth of 5,100 feet, from an elevation of 3,434 feet above sea level, the following marker horizons were encountered: Dakota group, 750; Morrison formation, 1,140; Blaine formation, 1,640; Stone Corral dolomite, 2,355; Krider dolomite, 2,898; Heebner shale, 4,099; Lansing limestones, 4,147; base of the Kansas City limestones, 4,462; Cherokee group, 4,698 (?); and Mississippian strata, 4,993 (?) feet depth.

WILSON COUNTY

(Map Pl. 1)

The 1952 production: oil from 22 areas in 10 fields 67,271 barrels, gas 185,316 thousand cubic feet.

Developments during 1952.—Oil production in Wilson County was slightly less than in 1951. No wells were reported drilled during 1952.

Oil production in the various Wilson County fields is listed in Table 66, and gas in Table 67. Locations of areas that produced oil in 1952 are shown on Plate 1.

WOODSON COUNTY

(Map Pl. 1)

The 1952 production: oil from 19 fields 631,511 barrels, gas 41,732 thousand cubic feet. Wells drilled in 1952 (reported): oil 38, dry 21, total 59. New pools discovered 1.

Developments during 1952. — Oil production in Woodson County was slightly greater than in 1951. Gas production showed a decided increase over the amount reported in 1951. The Steele, a Mississippian limestone pool, was discovered in May 1952 by the Moreland and Harris No. 1 Steele well in the SW¼ NW¼ sec. 20, T. 23 S., R. 15 E. The initial potential of the discovery well was 15 barrels of oil. The reservoir in the upper part of Mississippian limestone lies from 1,525 to 1,542 feet in the discovery well. Two additional oil wells and two dry holes were drilled in the field during the year.

TABLE 65.—Pool wells drilled in Woodson County during 1952

Field or pool	Oil wells	Dry holes
Batesville	1	
Hoagland	9	4
Jobes		1
Quincy	****	1
Steele	3	2
Toronto		1
Virgil North		1
		(Temp. abandoned
Weide	4	4
Winterscheid	19	7
Wissman	1	****
Yates Center	1	
Total	38	$\overline{21}$

Data on pool wells drilled in Woodson County in 1952 are listed in Table 65. Statistics on secondary recovery operations in the county are listed in Table 1. Oil production in the various fields is listed in Table 66 and gas in Table 67. Locations of areas that produced oil in 1952 and of water-flooding projects are shown on Plate 1.

WYANDOTTE COUNTY

(Map Pl. 1)

The 1952 production: gas 4,920 thousand cubic feet.

Developments during 1952.—No oil was reported produced in Wyandotte County. The gas production came from 3 wells in the Roberts-Maywood area which extends into Leavenworth County.



TABLE 66.—Oil production in Kansas during 1952

a b

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing zone, feet
		AL	TEN COUNTY				
Bronson-Xenia* a b	17-25-21E	2,400	79,904 2,222		2կ+	"Bartlesville	700
Colony West* (1922) a b	15-23-18E	700	2,111 83,547		10+	"Squirrel"	820
Davis-Bronson* a b	24-21E	540	704 6,861		. 5+	"Bartlesville"	720
Elsmore Shoestring (1908) Elsmore West (1911) a) 5-26-21E 12-26-20E	600 620	46,717 7,785			"Bartlesville" "Bartlesville"	
b hmboldt-Chanute* a b c d e f	26 – 18E	12,000	295 13,264 189,558 5,514 1,451 4,715 3,244		277+	"Bartlesville	850
g Iola a b c d e f	24-18E	3,600	23 92,473 5,770 2,852 327 311 29,440		25+	"Bartlesville	850
Moran (1903) a b	25 –20 E	500	7,069 2,147		5+	"Bartlesville	820
Neosho Falls* (1928) Seibert Miscellaneous	29–23–17E 5–26–20E	800 300	4,093 502 16,678			"Squirrel" Mississippian "Bartlesville"	
Total Allen County		22,060	609,577	15,413,828 recorded	415+		
		AND	erson county				
Bush City Shoestring (1921)	28-20-21E	4,200	338,296		568	"Squirrel"	620
Centerville* (1920)	10-21-22E	1,300	119,215		60+	"Squirrel" "Bartlesville	480 720
Colony-Tolda (1916) a b	4-23-19 e	1,900	1,554 40,608		99+	"Weiser" "Squirrel"	600 780
Colony West# (1922) a b	15-23-18 E	900	ц, 028 760 9,049		10+	"Squirrel"	825
Garnett Shoestring (1904)	32-20-20E	1,000	2,722 11,870		168+	"Squirrel" "Garnett"	700 800
C Kincaid (1921)	10-23-21E	900	13,943 23,363		36+	"Bartlesville"	750

23,363 4,353



Selma (1929) Miscellaneous	9-22-21E	200	2,318 4,803		1+	"Bartlesville"	700
Total Anderson County	у ,	10,400	576,882	14,910,963 recorded	942+		
		ВА	RBER COUNTY				
Amber Creek (1952)	36-30-12W		no report	none		Mississippian	
Amber Mills (1951)	15-30-12W	3 050	no report	none	20	Viola	4,480
Boggs (1946) Clara* (1948)	17-33-12W 36-29-11W	1,250 40	260,481 10,621	1,649,237 39,547	32 1	Simpson Simpson	4,806
Deerhead (1943)	22-32-15W	700	52,221	636,321	10	Viola	4,950
DeGeer (1948)	2-33-15W	600	12,941	734,680	16	Viola	5,176
Gerlane (1950)	29-33-11 W	40	5 , 913	14,837	1	"Miss. chat"	4,530
Lake City (1937)	7-31-13 W	200	2,430	298,900	2	Viola	4,435
						Simpson Arbuckle	4,530
Medicine Lodge (1937)	13-33-13W		no report	45,703		"Misener"	4,845
Rhodes (1949)	15-33-11W	1,000	245,676	529,980	25	Mississippian	4,551
			•	•		Viola	4,603
Skinner (1943)	29-31-14₩	800	102,261	1,666,081	25	Viola	4,626
Skinner North	29-31-14₩	1,600	Toolyded :	with Skinner		Simpson Viola	4,422
SKIIIBI NOICH	27-71-14	1,000	Tuctuded	MICH SKIIIIGI		Arbuckle	
Stumph (1952)	7-32-14₩	40	4,706	4,706	1	Simpson	4,963
Sun City (1941)	35-30-15W	640	62,845	1,496,157	13		4,344
Turkey Creek (1943)	20-30-15W	40	2,723	21,964	1		4,345
Turkey Creek North (1952)	12.30-15#	70	2 805	2 805	1	Simpson	4,438
Whelan (1934)	32-31-11W	1,200	2,805 221,202	2,805 2,561,813	26	Penn. congl.	4,541 4,355
Pools or fields abandoned		1,200	221,202	3,270	20	······································	4,000
Total Barber County		7,850	986,825	9,736,001	154		
		1,000	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	recorded			
		ВА	RTON COUNTY				
Ainsworth South (1937)	10-17-13W	2,000	165,189	3,617,364	66	LansK.C.	3,170
Alefs (1952)	14-19-14 W	80	17,247	17,247	2	Arbuckle LansK.C.	3,390
	TT-13-TT#	00	119241	119241	- 2	Arbuckle	3,334 3,474
Ameh (1951)	19-18-11W	80	15,097	25,349	2	LansK.C.	3,103
Ames (1943)	22-18-11#	1,000	8 بليا 170	1,254,913		LansK.C.	3,042
						Arbuckle	3,348
Ames Northwest (1947)	9-18-11W	80	4,109	492 بلا	2	LansK.C.	3,106
Anton (1950)	28-19-11	80	850	7,386	2	Arbuckle Arbuckle	3,312 3,342
Ash Creek* (1947)	31-20-15W	540	7,908	469,508	9	Arbuckle	3,787
Axman (1949)	19-17-14₩	120	17,400	97,405	ź	Arbuckle	3,400
Barrett (1943)	36 - 16 -14₩	800	29,639	153,468	8	LansK.C.	3,355
De-t 01-00- (20/2)	1 '02 21-	1				Arbuckle	3,463
Bart-Staff* (1951)	4-21-14	400	95,512	132,805	11	LansK.C.	2 572
Batchman (1950)	19-20-12W	80	8,514	25,816	2	Arbuckle Arbuckle	3,572 3,459
Beaver (1934)	16-16-12	1,200	59, 293	2,996,248	_	Oread	2,885
• • • • • • • • • • • • • • • • • • • •		•		-,,,,,-,-		Toronto	2.938
						Arbuckle	3,348
D	1 26 20-	200		/a.a. a.a.	_	Reagan	3, 335
Beaver North (1937) Beaver Northwest (1942)	4-16-12 W 6-16-12 W	300 Comb1	29,203 ned with Hall-	619,915	9	Arbuckle	3,316
Beaver South (1945)	27-16-12W	1,500	130,944	527, 366	21,	Sooy	
	-,	_,,,,,	~~,/***	72,9700		Arbuckle	3,359
Behrens (1944)	6-20-15W	950	37,642	541,999	19	Arbuckle	3,719
Bergtal (1941)	22-20-15W		no report	2,333		Arbuckle	
Bergtal South (1951)	27-20-15W	300	no report	108		Arbuckle	3,775
Bernard (1950)	10-19-11#	320	101,202	139,196	13	Shawnee	2,866
						LansK.C. Arbuckle	3,224
Bieberle (1952)	4-19-11 W	40	931	931	1	Arbuckle	3, 395
Bieberle (1952)	4-19-11 W	40	931	931	1		3,395



TABLE 66.—Oil production in Kansas during 1952, continued

	I ABLE 66.—C	ol production	n in Kansas duri	ng 1952, continu	ied .		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells		Depth to pro- ducing zone, feet
Blood Creek (1950)	9-18-13 W	40	no runs	2,077	,	LansK.C.	3,078
Bloomer* (1936)	36-17-11W	1,170	315,071	10,537,728	67	LansK.C.	بلبا0,5
			•			Arbuckle	3,257
Bloomingdale (1950)	8-18-11:7	40	no runs	4,692	1	Arbuckle	3,366
Boyd (1942)	4-18-14₩	3,840	785,174	5,016,369	115	LansK.C.	3,177
						Arbuckle Pre-Cambrian	3,438 3,311
Boyle (1950)	17-17-14W	Combi	ned with Carr	011		110-04401 2411	7,711
Bryant Southeast (1949)	26-20-12W	Com bi	ned with Chas	e-Silica			
Buckbee (1949)	14-20-12#	40	3,635	14,527	1	Arbuck le	3,352
Buckbee Southwest (1952)	15-20-12W	40	1,194	1,194		Arbuckle	3,373
Capitol View (1950) Carroll (1944)	9-17-1¼₩ 21-17-1¼₩	40 2,000	2,692 268,596	10,028		LansK.C. LansK.C.	3,230
0011011 (1)44)	51-11-114	2,000	200, 590	1,865,323	45	Arbuckle	3,109 3,356
Carroll Southwest (1947)	32-17-14W	80	6,128	47,534	4	LansK.C.	3,193
Chase-Silica* (1931)	32-19-9W	17,680	961,148	52,011,933		LansK.C.	2,955
						Arbuckle	3,328
Cheyenne View (1949)	12-19-12W	1,280	308,948	818,438	53	LansK.C.	3,152
						Arbuckle	3,390
Cheyenne View North(1950)) 1-19-12W	Combi	ned with Chey	enne View		Penn. congl.	3, 393
Dartmouth (1951)	27-19-12W		ned with Fort				
Dartmouth Northwest (1951)) 28-19-12W		ned with Fort				
Davidson# (1930)	4-16-11 W	80	5,309	240,450	2	LansK.C.	3,016
						Sooy	3,317
Dundee (1945)	29-20-11iW	80	3 335	22 (70		Arbuckle	3,314
Eberhardt (1935)	14-19-11 W	320	1,335 14,572	13,652 422,433		Arbuckle LansK.C.	3,507 3,194
Ellinwood North (1937)	33-19-11W	70	2,054	85,179		Arbuckle	3, 328
Esfeld (1947)	15-16-11W	10	337	7,875		Arbuckle	3, 343
Eveleigh (1943)	11-18-14W	Combi	ned with Boyd	•	_		-,-
Feltes Northwest (1945)	3-16-12₩	400	45,041	395,579	7	Arbuckle	3,342
Fort Zarah (1950)	30-19-12₩	3,200	937,525	1,269,645	106	LansK.C.	3,157
Fort Zarah North (1951)	19-19-12W	320	22 067	29 061	5	Arbuckle	3,384
Frank (1952)	7-19-12W	80	32,067 1,332	38,061 1,332		LansK.C. LansK.C.	3,208 3,322
Fransen (1949)	6-20-12W	00	no report	295	•	LansK.C.	3,196
Great Bend Airport (1952)	26-19-14₩	640	100,852	100,852	12	LansK.C.	3,320
						Arbuckle	3,473
Great Bend East (1951)	34-19-13W	40	949	949		LansK.C.	3,234
Great Bend Southwest (1952)	25-19-14₩	200	26,701	26,701	5	LansK.C.	3,322
Great Bend West (1951)	23-19-14₩	120	22,755	25,046	3	LansK.C.	3,332
Hagan (1938)	20-20-11W	160	24,136	416,450		Arbuckle	3,323
Hall-Gurney# (1931)	30-14-13₩	640	246,981	1,166,648	28	Shawnee	-,
						LansK.C.	3,066
						Sooy	
Hammeke (1950)	17-19-11W	120	20,183	66,006	3	Arbuckle LansK.C.	3,065
Hammeke Southeast (1950)		120	14,497	49,486	3	LansK.C.	3,089
Hammer (1940)	35-19-12W	760	164,720	566,111		LansK.C.	3,088
			-			Arbuckle	3, 348
Hammer North (1949)	23-19-12W	1,280	227,530	1,002,556	59	LansK.C.	3.222
						Arbuckle	3,344
Harrison (1951)	18-20-13W	40	2,001	1, 160	1	Penn. congl. Arbuckle	3,407
Hawkins (1952)	3-19-13W	40	3,721	4,160 3,721		LansK.C.	3,520 3,158
(-,,-,	//-	40	79121		-	Arbuckle	3,393
Heiser (1935)	16-19-14₩	40	2,079	46,647	1	LansK.C.	3,228
Heiser Northeast (1952)	15-19-14₩	80	5,557	5 , 557	2	LansK.C.	3,353
Hiss (1936)	31-20-13W	5110	17,840	603, 787	6	LansK.C.	3,270
Hiss East (1952)	33-20-13₩		no report	none		Arbuckle	3,549



Hiss South (1950) Hiss Southeast (1948)	31-20-13W 32-20-13W	120 320	18,019 22,660	46,500 122,647		Arbuckle LansK.C. Arbuckle	3,542 3,414 3,545
Hiss West (1945)	36-20-11/W	Combis	ned with Prite				-
Hoisington (1938)	21-17-13W	670	98 , 695	1,246,020	34	LansK.C.	3,222
Hamantand (1019)	22-18-13W	40	1 177	12 720	1	Arbuckle	3,440
Homestead (1948) Kaufman* (1947)	33-15-121	40	1,177 no report	12,720 6,026	_	Arbuckle LansK.C.	3,310
Rediment (1)4()))-1)-1EN		no report	0,020		Arbuckle	3,311
						Pre-Cambrian	-
Klepper (1951)	2-19-117	640	56,511	59,150	9	LansK.C.	3,220
Klug (1946)	28-17-13W	80	3,205	38,315		Artuckle	3,414
Klug North (1948)	27-17-13/	120 9⊛	15,827 198,885	92,500 768,646	3 28	Arbuckle LansK.C.	3,377 3,185
Kowalsky* (1941)	32-20-117	900	190,005	100,040	20	Arbuckle	3,378
Kowalsky Northwest (1947)	30-20-11:4	Combi:	ned with Kowa	ls!gr			
Kraft-Prusa*(1937)	10-17-119		5,270,487	65,638,562	782		2,885
						Douglas	2,997
						LansK.C.	3,160
						Arbuckle Reagan	3,281 3,310
						Gorham	3,335
						Pro-Cambrian	
Kraft-Prusa Northeast	36-16-11W	260	23 , 837	319,250	7	LansK.C.	3,250
(1941)	7 70 77	80	2 (02	7 (0)	•	Arbuckle	3,351
Kramp (1952) Lake Barton (1948)	7-19-11W 21-18-13W	80	1,581 no report	1,581 6,861	2	Arbuckle Arbuckle	3,351 3,372
Lanterman (1934)	15-19-11:V	860	29,096	895,963	11	LansK.C.	3,109
	-, -,	-	-/,-/-	•,,,,,		Arbuckle	3,235
Larkin (1951)	10-17-147	200	25,732	57 , 439	5	LansK.C.	3,280
Laudick (1948)	28-16-127		ned with Beave				2 0/2
Leoville (1950)	7-17-14₩	640	176,761	334 , 036	20	LansK.C. Arbuckle	3,267 3,1,61,
Liberty (1952)	23-20-14		no report	none		LansK.C.	3,341
Lott (1952)	26-16-127	Combi	ned with Beave				
Mary Ida* (1950)	31-18-10W	32 0	109,672	148,126	11	LansK.C.	3,033
	az 20 22-	1.0	-1-	01.5		Arbuckle	3,272
Mary Ida North (1952)	25-18-11W	40 100	241	241		Arbuckle	3,304
McCauley (1949) Meadowside (1949)	34-17-13 W 24-18-11 W	100	no runs 32,532	16,733 122,569		LansK.C. LansK.C.	3,276 3,079
20420110 (1747)	L4-10-11H	100)L,))L	122,000	4	Arbuckle	3, 254
Merten Northeast (1946)	36-18-15₩	40	1,560	16,262	1	Arbuckle	3,494
Merten Southeast (1949)	12-19-15 W	40	7,962	20,272		Reagan	3,567
Odin (1948)	3-17-12W	03	15,525	77,848		Arbuckle	3,321
Otis-Albert* (1935) Pawnee Rock* (1936)	30-18-15 W	7,000 500	360, 235	4,361,659		Reagan	3,601 3,832
Pawmee Rock East (1941)	13-20-16\ 17-20-15\	40	2,532 1,214	207,000 25,189	1	Arbuckle Arbuckle	3,814
Peach (revived)(1952)	25-16-14W	40	1,289	1,289	î	LansK.C.	3,373
Prairie View (1950)	20-19-11W	320	61,054	158,150	7		3,080
Pritchard (1944)	34-20-14 7	1,230	185,795	1,891,415	29		3,525
D-1 (2072)		3.60	20 (00	20 077		Arbuckle	3,455
Putnam (1951) Putnam West (1951)	7-17-13W 1-17-14W	160 80	30,608 14,080	32,877 15 , 255		LansK.C. LansK.C.	3,286 3,225
Redwing (1950)	31-17-12W	320 ·	43,860	86, 265		LansK.C.	3,083
, (-), (-)			42,		,	Arbuckle	3,335
Redwing South (1952)	6-18-12W	70	3,127	3,127		Arbuckle	3,325
Reif South (1950)	31-16-12W	80	7,672	20,494	3	LansK.C.	3,172
Rick* (1936)	1-19-11W	900	61,698	993,633	19	LansK.C. Arbuckle	3,106 3,355
Roesler (1943)	14-18-11W	40	2,700	40,733	1	Arbuckle	3,291
Roesler East (1950)	13-18-11W	610	117,394	233,696	14	Arbuckle	3,294
Rolling Green (1948)	36-20-13₩	80	217	16,333		LansK.C.	3,257
Rolling Green East (1949)		80	1,304	7,955		Arbuckle	3,491
Rowland (1949) Rusco (1950)	32-17-13W 8-19-12W	70 70	1,458	8,466		Arbuckle Arbuckle	3,323
Sadie (1951)	12-18-11W	40	1,279 2,750	6,424 2,968		Arbuckle	3,417 3,276
St. Peter (1944)	5-19-11W	80	9,114	107,437	2	LansK.C.	J, C, O
				•		Arbuckle	3,387
Sandford (1951)	25-17-14 W	160	12,945	21,1437	4	Arbuckle	3,375



T	66 _0:1	Araduction	in Kancas	during 1	952, continued
LABLE	00174	orogucuon	IN RANSAS	QUITINE I	7)4. CUMIINWEG

	I ABLE 00.—	ou proauciio	m in Kansas aut	ring 1952, contin	uea		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing zone, feet
Sandrock (1951) Sandrock South (1952) Silica South* (1935)	21-20-13W 28-20-13W 24-20-11W	ьо 160 3,000	1,125 8,616 1,992,828	2,519 8,516 21,903,700	5	LansK.C. LansK.C. LansK.C. Arbuckle	3,412 3,418 3,035 3,268
Sunflower (1949) Sunny Valley (1949) Trapp* (1936)	8-17-12W 7-20-12W 23-15-14W	200 13,700	no report 40,016 2,308,802	1,969 257,525 45,854,630		Arbuckle LansK.C. Shawnee Dodge LansK.C.	3,376 3,230 2,889 2,966 3,062 3,252
Underwood (1950) Unruh (1945)	15-17-13\ 24-20-15\	80 500	1,502 10,826	7,537 131,354	2 6	Arbuckle Arbuckle LansK.C. Arbuckle	3, 342 3, 1442 3, 641
Walnut Creek (1952) Wearne (1951) Werner-Robl (1951)	8-19-13\\\4-20-12\\\30-19-11\\\	կ0 կ0 120	2,180 2,739 35,769	2,180 5,192 61,330	1 1 5	LansK.C. Arbuckle	3,347 3,384 3,106 3,364
Werner-Robl Northwest (1951)	24-19-12#	40	1,457	4,577		LansK.C.	3,092 3,347
Werner-Robl South (1951) Workman (1944) Zink* (1950) Pools or fields abandoned	30-19-11W 33-20-12W 13-18-11W	40 40 320	3,937 2,200 51,974	6,521 24,939 59,128 155,557	1	Arbuckle Arbuckle	3,407 3,284
Total Barton County		106,000	16,959,379	234,310,513 recorded	3,018		
		BO	URBON COUNTY				
Bronson-Xenia* Davis-Bronson* a	17-25-21E 23-21E	700 80	37,443 465			"Bartlesville	
b Hepler* (1917) Total Bourbon County	27-225	1,180	99 18,977 56,984	697,937 recorded	<u>5</u> + 17+	"Bartlesville	111
		В	ROWN COUNTY				
Livengood (1944)	3-1-15E	6110	5,001	84,124 recorded	1	"Hunton"	2,580
		В	UTLER COUNTY				
Allen-Robison (1943) Augusta (1914)	1-26-3E 21-28-4E	1,300 6,400	48,328 339,068	37,225,161		Mississippian Lansing Kansas City Marmaton	1,700 2,000 2,200
Augusta North (1914)	28 –27–4E	1,200	107,918	14,540,469	63	Ordovician Arbuckle Lansing Kansas City Ordovician	2,445 2,600 1,650 1,950 2,380
Bare (1952) Bausinger (1929) Benton (1925)	31-28-5E 24-27-3E 26-3E	80 80 40	1,332 5,206 2,485	1,332	2 2 1	Arbuckle "Bartlesville "Wilcox" Miss. "chat"	2,410 2,778 3,050 2,969
Blankenship* (1921) a b c	26-8 E	1,200	568,040 12,555 16,651	1,760,208		"Bartlesville	2,650

Brandt-Sensenbaugh (1925) a b	22-28-7E	1,800	49,242	1,791,977	35	Miss. "chat"	2,692
Srickley (1951) Brickley Southwest (1952) Butwick* (1949) Butwick Northeast (1949) Combs* (1947)	2-27-7E 3-27-7E 7-26-3E 7-26-3E 5-30-5E	160 40 320 40 320	4,630 39,885 1,705 12,848 306 17,406	46,724 1,705 67,109 4,269	6 1 5 1 5	"Bartlesville" "Bartlesville" Mississippian Miss. "chat" "Bartlesville"	2,699 2,860 2,820 2,820
Combs Northeast (1948) DeHoss (1934)	2 7- 29-5 e 8-28-7 e	100 600	4,149 21,522	24 , 823	3 22	Mississippian "Bartlesville" "Bartlesville"	2,810 2,650
Dixon (1946)	12-27-6E	40	1,312	11,279	1	"Burgess" Kansas City Mississippian	2,680 2,160
Douglass(1916)	21-29-4E	160	6,494		4	LansK.C. Ordovician	1,790 3,000
3ckel (1940) Edgecomb (1951) Elbing* (1918) a b c	7-27-7E 9-25-3E 18-23-4E	80 60 1,800	1,135 4,603 529,847 34,759 1,838	59,288 5,478 4,385,314		LansK.C. Mississippian Kansas City	2,190 2,759 2,120 2,400 2,530
Elbing East (1950) El Dorado (1915) a b	27-23-4B 29-25-5B	300 16,500	5,875 3,413,206 24,618	25,389 211,333,902		LansK.C. Lansing Kansas City Viola Simpson Arbuckle	1,799 1,700 2,000 2,500 2,510 2,550
Ferrell (1939) Four Mile Creek (1951) Fox-Bush (1917)	28–28–8E 5–28–3E 24–29–5E	1,000 320 6,500	130,051 33,340 74,172	1,119,010 79,511 2,709,829	- 9	Mississippian Simpson "Bartlesville"	2,647 3,069
b Garden (1925) Guyot (1948) Hannah (1936) Hartenbower (1950) Hartenbower South (1951) Haverhill (1927)	32-26-68 5-29-58 29-88 16-29-68 16-29-68 34-27-58	800 80 40 80	212,890 46,605 623 2,814 5,414 no report 49,751	11,890 14,162 14,861 64 4,366,307		Kansas City "Peru" LansK.C.	2,800 2,120 2,404 2,060
Hazlett Hickory Creek (1946)	24-58 11-28-58	1,800	304,014 69,243	875, 360 833, 232	89	"Bartlesville" Mississippian "Bartlesville"	2,480 2,685
Joseph (1947) Keighley (1925)	18–24–5E 22–27 –7E	40 1,200	no report 23,084	ц,069		Mississippian Miss. "chat" "Bartlesville" Simpson	2,491
Kramer-Stern (1926)	3-28-6€	1,900	304,554		71	Simpson Arbuckle	3,020 3,040
"Lanier" Leon (1922)	35–26–7E 19–27–6E	Џо 800	6,856 28,853	2,463,610	1+ 23	Miss. "chat"	2,660 3,050
Long (1949) Lucas (1946) McCullough (1929) Muddy Creek (1950) Murdock (1952) Parsley (1949) Pettit (1926) Pierce (1926) Pierce West (1951)	15-26-78 6-27-88 1-28-68 13-29-18 23-25-38 3-26-38 17-28-68 28-25-18 20-25-18	80 80 40 600 40 280 700 180	2,859 5,231 3,158 74,505 2,105 17,353 no report 94,864 7,551	11,833 22,065 491,485 131,722 2,105 81,816	1 6 29 4	"Milcox" "Bartlesville" Mississippian Mississippian "Wilcox" Miss. "chat" Mississippian	2,780 2,680 3,169 2,813 2,709 2,710 3,180 2,550 2,515
Potwin (1917) Reynolds-Schaffer (1922)	31-24-4E 9-27-6E	5,200 1,860	193,797 107,960	7,712,199		Kansas City Mississippian Kansas City Mississippian	2,550 2,660 2,375 2,780
Rombold (1949) Salter (1946) Semisch (1947) a b	ц-26-3 е 23-28-3 е ц-29-6 е	180 360 640	6,409 123,211 236,620 56,607	23,318 1,071,115 503,289	3 32 52		3,141 2,770 3,000



	TABLE 66.—0	il production	n in Kansas duri	ng 1952, continu	ed		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducin wells		Depth to pro- ducing zone, feet
Seward (1926) Shinn (1946) Smock-Sluss (1917)	27-27-7E 19-29-8E 2-27-5E	320 640 1,900	23 ,2 53 48,643 85,413	1,069,376 490,847	16 9 56	"Bartlesville" Mississippian "Bartlesville" Viola	2,766
Snowden-McSweeney (1930) Steinhoff (1926) Towanda (1948)	34–28–6 e 28–29–6 e 5–26–4 e	640 80 320	105,112 2,247 263,393	1,050,754	2	Mississippian Mississippian Mississippian Viola	2,833 2,803
Whitewater (1949) Whitewater North (1951) Womack (1947)	32–25–4 E 29–25–4 E 19–28–6 E	320 40 40	53,933 1,874 1,366	224,660 6,020	1	Viola Viola "Bartlesville" Kansas City	2,625 2,700
Young (1920) a b Miscellaneous	27-26-7 B	980	65,105 11,793 619		45	Mississippian	
Total Butler County		64,660	8,164,208	379,831,847 recorded	3,304+		
		Сн	IASE COUNTY				
Atyeo* (1925) Bazaar (1951) Teeter* (1920) Total Chase County	30-21-10 E 36-20-8E 16-23-9 E	300 160 900 1,360	4,944 257 25,428 30,629	174,256 recorded	1+	"Bartlesville" LansK.C. "Bartlesville"	1,823
		CHAU	TAUQUA COUNTY				
Borroum (1926) Brown-Sturgis Elgin	20–34–9E 33–11B 34–10B	80 3,000	3,953 no report			Marmaton	1,780 1,520
a b c d		•	2,542 368 20,297 1,614 1,518 8,991				
Frazier a b	33-13E	600	708 871		2+	"Peru"	1,520
Hale-Inger (1907) a b Hylton	32-12 E	1,300	2,656 6,714 no report		2+	"Peru"	1,160
Kingston (1926) Landon-Floyd (1936)	18-32-11E 23-32-10E	320 800	1,394 22,955			Miss. "chat" Arbuckle Mississippian	1,850 2,176 2,000
McAllister (1925) McGlasson (1947) Malone Niotaze	28-32-10E 11-33-9E 18-32-10E 34-13E	300 40 400	10,615 no report 542 4,537		5+ 1+	Ordovician "Redd" "Peru"	2,340 690 825
Oliver (1935) Peru-Sedan (1900) a b c d	32–11 E 34–11 E	700 30,000	14,175 362,889 82,248 9,645 1,238 4,379		5 + 175 +	"Peru" Mississippian	1,200 2,000

f g h i j k l m n o Waumeta Wayside-Havana* (1904) a b c Wiggam Miscellaneous Total Chautauqua Co	34-9E 34-13E 34-32-10E punty	320 500 200 38,560	29, 130 119, 016 117, 723 7, 280 629 32, 931 13, 072 774 769 2, 167 2, 252 91 162 1, 974 3, 101 1, 526 798, 706	43,115,477 recorded	5+	"Peru" Mississippian "Mayside" "Weiser" "Bartlesville" "Meiser"	1,670 2,100 575 700 1,200
		CHEY	ENNE COUNTY				
Judy (1951)	26-1-39 W		no report	none		Marmaton	4,497
		CLA	RK COUNTY		,		
Ashland (1951)	35-32-23W	80	13,043	19,456	2	Viola LansK.C.	6,526 4,673
		CL	AY COUNTY			··	
Wakefield (1951) Wakefield Northeast (195	21-9-4 E 51) 15-9-4 E		no runs			Mississippian Mississippian	
		COF	FEY COUNTY				
Dunaway* (1922)	34-22-13 E	850	13,839		5+	"Burgess" Mississippian Ordovician	1.850 1,878 2,200
Leroy (1905)	35-22-16 e	160	82		2+		2,200
b Van Noy (1917)	7 - 23-15 8	800	1,086 10,015		. 5+	"Peru"	1,170
Virgil North* (1920)	22-23-13 8	1,200	կկ, 14,3 24,8		20+	Mississippian "Bartlesville" Mississippian	1,585
b Winterscheid* (1920) a b	23 –11 je	600	4,738 9,357		10+	"Bartlesville" Mississippian	
Miscellaneous Total Coffey County	r	3,610	2,143 85,651	1,276,042 recorded	<u>1</u> 4+		
		COM	LEY COUNTY				
Arkansas City West (1952 Baird (1925)	2) 23-34-3E 17-34-3E	700 70	8,460 15,431	8,460	1 5	"Bartlesville" "Bartlesville" Wississippian	3,291 3,285
Baird East (1940) Bergkamp (1952) Bergkamp Horthwest (1952 Biddle (1922)	15-34-32 6-35-42 2) 6-35-42 7-32-52	160 460 40 500	4,101 90,512 525 15,052	90,512 525		Mississippian "Bartlesville" "Bartlesville" "Bartlesville" Kansas City "Stalnaker"	3,200 3,202



	TABLE 000	ii production	in Kansas aurii	16 1772, comme			
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952,bbls.	No. pro- ducing wells	zone	Depth to pro- ducing sone, feet
Pogn er (1952)	2l1-31-5E	40	1,450	1,450	1	Mississippian	2,999
Box (1948)	28-30-7E	320	27,387	139,363		Mississippian	
Brown (1922)	13-31-7E	80	1,474	246,000	2		2,100
Bruce (1950)	9-30-4E	80	11,835		2		2,100
Burden (1926)	31-31-6E	700	25,615	24,195	34	Arbuckle "Bartlesville	3,306
Cabin Valley (1952)	31-33-6 E	80	2,725	2,725	2	"Layton"	2,900
Canfield (1952)	13-34-3E	140	3,137	3,137	í	"Bartlesville	2,188 3,375
Clark (1914)	6-31-LE	180	7,807	اردور	7	"Bartlesville	
Clover	31-7E	100	no runs	19,355	·	Kansas City	2,840 2,200
020.02	71-15		no ruis	17,333		Mississippian	
Combs* (1947)	5-30-58	320	35,154	326,977	10		
(2)4//	J-70-7 4)20	JJ = 174	220,711	12	"Bartlesville	
Copeland (1952)	5-35-4E	40	117	117	•	Mississippian	
Couch (1937)	13-30-5E	800	77,196		50	Mississippian	
Countryman (1925)	4-33-7E	600	10,338	1,873,221		"Bartlesville"	
(1)(1)	4-77-15	•	10,000		,		1,950
David (1935)	35-30-4E	640	14,9,104	1 200 010	22	Mississippian	2,870
David South (1934)	11-30-4E	300		1,288,818	37 6	"Bartlesville	
24114 BO4011 (1/34)	11-70-45	500	17,531	210,900	0		
Deichman (1941)	24-31-4E	400	28,438	920 009		Arbuckle	3,463
Delenman (1941)	24-71-46	400	20,430	839,098	۷۱	"Bartlesville	
Dexter (19址)	33 –6 E	40	7.016			Mississippian	
Doane (1947)			1,946	22 007		Mississippian	
Double (1)4//	36-33-6E	80	817	11,225	Ţ	Mississippian	
Dutch Creek (1952)	35-31-կը	40	198	300		Arbuckle	3,140
Eastman (1924)		800	1.4 703	198		"Bartlesville	
Elrod	5–31–68 4–32–58		46,583			"Bartlesville	
Enterprise (1948)		40	3,196		1		2,411
Enterprise Northeast (1952)	35-33-3E	160	no runs	(003		"Bartlesville	
Esch (1928)			6,071	6,071	3.		3,335
Falls City (1916)	33-33-6 8 35 -7 8	կ0 320	11,900	3 020 602		"Bartlesville"	
Ferguson Northwest (1950)	16-30-88	120	2,644 2,205	1,272,687	7	"Layton"	2,000
Ferguson West (1934)	21-30-8E	120	2,295 8 90	9,457		Kansas City	2,200
Frog Hollow (1937)	20-32-5B			1 020 063		Kansas City	2,180
Frog Hollow East (1941)	15-32-5E	1,000 500	147,681	4,272,963	.45		
Fussell (1952)	14-34-3E	40	10,516 240	257,679	?	"Bartlesville	3,000
Geuda Springs	5-34-3B	500		5H0	,1	"Bartlesville"	3,340
over opr nago)-J4-J6	500	31,181	554,498	10	"Bartlesville	
Gibson (1941)	29-34-3E	600	229,689	622 226	1.5	Miss. "chat"	3,345
0100011 (1)41)	27-24-25	•	229,009	611,376	43	"Bartlesville"	
Gibson South (1952)	32-34-3E	Combi	med with Gibso	_		Mississippian	3,400
Graham (1924)	3-33-3B	9f0 60mp11	26,512		30	**	
(2)44)	J-77-78	40	20, 512	2,778,191	15	"Layton"	2,550
Grand Summit* (1926)	4-31-8E	160	1,00			Arbuckle	3,518
Grouse Creek (1951)	16-30-7B	40	1,967	2 01 2		Kansas City	2,000
Harvey (1952)	23-34-38	160	1,907	3,011		Mississippian	
(2)	27-74-75	100	3,672	35,581	y	"Bartlesville"	3,278
b			27,002				
Harvey Northwest (1952)	15-34-3E	160	31,909	۲ ۸43			
Henderson (1942)	26-32-3E	80	5,061 900	5,061	("Bartlesville"	
	24-72-76	00	900	131,007	2	Kansas City	2,690
Hittle	28-31-48	800	212,886	0 000 963	1.1.	Arbuckle	3,419
•		500	212,000	9,005,861	44	Kansas City Arbuckle	2,400
Hower (1935)	32-33-3E	300	5,909	78 000	1.		3,280
Jarvis	13-33-98	40	218	78,958	4 1+	"Bartlesville"	3,320
McKay (1951)	17-35-48	970 70	100,879	102 81.1.	- 7	#Damble and 33 - 5	2 22 1
Mansur (1949)	25-31-6 8	100		103,844 66 300		"Bartlesville"	
Murphy (1933)	7-35-38	1,000	14,814 65 1.61	66, 309	7	"Layton"	2,170
F.A. (T/22)	-JJJB	1,000	65,464		33	"Bartlesville"	
Nigger Creek (1951)	22-34-3E	40	2 107	9 (*1).	,	Miss. "chat"	3,500
"Priest"	7-33-6E	40	2,107 98	2,514	1	"Bartlesville"	251 ور
	,-,,-	40	70	98	1		

Otto (1927)	25-34-6E	200	2 070	13,560	4	Miss. "chat"	3,017
a b			3,059 3,095				
Rahn (1939)	13-34-58	1,200	22,885	1,438,546	44	"Bartlesville"	2,900
Rahn Northeast (1949)	27-33-6E	80	12,859	48,789	5	"Bartlesville"	2,902
Rahn Southwest (1943) Rainbow Bend (1923)	28-34-5E 20-33-3E	1,500	no report 155,038	3,790 15,633,097	100	"Bartlesville" "Burgess"	3,019
Rainbow Bend Northeast	15-33-3E	160	7,022	31,680	3	"Bartlesville"	3.213
(1945)				,			
Rainbow Bend West*	19-33-3E	320	11,680		3	"Burgess"	3,200
Rock	15-30-LE	1,500	175,395	3,430,841	65	Arbuckle "Bartlesville"	3,550
Rock North (1937)	3-30-4E	160	9,747	149,425	3	"Bartlesville"	2,800
School Creek (1947)	15-32-7E	160	Jr. 063	23, 234	3		
Seacat (1944) Slick-Carson (1924)	26–33–ЦЕ 19–32–3Е	40 320	1,542 43,389	16,650 3,554,913	16	Mississippian "Layton"	3,100 2,600
311ck-Carson (1924)	19-32-36	520	40,000	3,554,713	10	"Bartlesville"	
						Arbuckle	3,450
Smith (1917)	31-3E		no report			"Bartlesville"	
State (1926)	15-32-4E	1,200	43,296		12	"Layton" Arbuckle	2,400 3,300
Stayton (1949)	32-32-4E	640	20,204	70,059	9	"Bartlesville"	
Thurlow (1927)	8-33-3E	640	36,062		9	Simpson	3,500
Frees (1935)	19-30-LE	400 80	11,762	202 202		"Bartlesville"	
Turner (1937) Turner North (1948)	30–32 <i>–</i> 6E 18–32–6E	40	3,588 139	280,980 357		"Layton" "Layton"	2,232
Turner West (1952)	25-32-5E	40	2,204	2,201		Mississippian	3,054
Udall	30-3E	40	1,803	-		Arbuckle	2,850
Weathered (1935)	28-31-3E	600	32,402	2,709,245	17		2,080
						LansK.C. Mississippian	2,480 3,020
						Arbuckle	3,250
Winfield (1914)	32 - 5E	1,280	58,011		55	Admire	600
						"Peacock" "Layton"	1,400 2,300
			•			"Bartlesville"	
						Arbuckle	3,300
Winfield South (1945) Miscellaneous	1-33-4E	40	872 355	8,475	1	"Hoover"	1,400
Total Cowley County		25,760	2,165,504	71,263,932	920		
		27, 100	2,10),504	recorded			
		CRA	WFORD COUNTY				
Fair Oak	33-28-22 8	300	7,119			"Bartlesville"	
Hepler# (1917)	27-22E	40	59			Bartlesville	
"Houston" McCune (1929)	3-31-22E 30-22E	կ0 3,000	120 27, 170		104	• "Bartlesville"	
"Steimel"	35-29-21E	40	222		14		
St. Paul-Walnut*	28-21E	500	138			*Bartlesville	
Walnut Southeast	28-22 E	700	11,526		10	*Bartlesville	400
b		40	593				
Miscellaneous			150		1	+	
Total Crawford Count	ty	4,660	47,097	551,999	30+	•	
				recorded			
		DEC	ATUR COUNTY				
Adell Northwest (1952)	34-5-27W	640	93,582	93,582	13	LansK.C.	3,664
Feely (1952)	2-5-27W	160	17,799	17,799	3	LansK.C.	3,590
Hardesty (1952)	22-5-27W	500 1.00	21,551	21,551		LansK.C.	3,642
Jennings (1951)	25-4-27 W	400	37,802	42,159	4	Wabaunsee LansK.C.	3,156 3,478
Monaghan (1952)	15-2-2 7₩	40	1,690	1,690	_1	LansK.C.	3,514
Total Decatur County	7	1,740	172,424	176,781	24		
		 -		·····			



TABLE 66.—Oil production in Kansas during 1952, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing zone, feet
		DICK	INSON COUNTY				
Bonaccord (1943) Lost Springs* Lost Springs North (1945 Lost Springs Northeast	30-14-1E 16-4E) 22-16-4E 26-16-4E	140 800 140 140	1,208 100,901 2,066 4,138	33,349 93,651 13,558	16 1+	"Burgess" Miss. "chat" Miss. "chat" Miss. "chat"	2,483 2,300 2,300 2,300
(1947) Total Dickinson Com		920	108,313	696,185	22+	MISS. "CIMU"	2,000
				recorded			
		DOU	GLAS COUNTY				
Baldwin (1919)	12-15-20 E	600	1,580	52,910 recorded	16	"Squirrel"	800
		EDW	ARDS COUNTY				
Bradbridge (1948) Pools or fields abandone	2-24-16 # đ	120	23,810	57,507 102,496	3	Arbuckle	4,020
Total Edwards Count	у .	120	23,810	160,003	3		
		E	IK COUNTY				
Bush-Denton (1920)	4-30-9 e	800	25,075		30	"Stalnaker" "Peru" "Burgess"	1,060 2,135 2,300
Collyer (1924)	30-30-11 B	160	6,959		n	Kansas City Fort Scott	1,286
Dory Dunkleberger	18–30–9E 34–29–10E	80 600	2,130 32,584			Mississippian Kansas City Mississippian	2,570 1,300
Elk City	31 – 13E 23–30–8E	40	no report		,	A	2,900
Ferguson East Fleming (1950)	8-29-9E	40	1,113 506			Ordovician Arbuckle	2,656
Grand Summit* Hale-Inge* (1907)	4-31-8E 31-12E	40 80	8,118			Kansas City	2,000 1,160
a			6,708		1+		•
b Vin Sam	20.127	1.0	33 59		1+ 1+		
Kipfer Logsden	29-13 e 31-9e	40	no report		7.		
Longton	31-12E	40	1,647		1+		
Love	30-9E	40	3,106		1	Mississippian	
Moline (1928)	9-31-10E		no report			"Burgess" Mississippian	2,000
New Albany	29-13B	700	18,090		4+	"Wayside"	560
Oak Valley	31-13 e	40	141		1+	-	
"Perkins"	1-30-9E	40	576		1+	Y 014	2 052
Porter (1923)	29 - 8 E	40	1,828			Kansas City Arbuckle	2,050 3,000
Schrader (1928)	12-31-8E	500	31,468			Kansas City	1,520
Severy* (1922)	8-28-11E 12-31-9E	70 70	206			Kansas City Mississippian	1,200
Starr (1937) Walker (1927)	5-31-10E	40	1,963 1,230			Kansas City	1,550
			-			Mississippian	2.225
Webb (1925)	23-31-10 e	600	32,206		ц+	Kansas City Fort Scott Mississippian Arbuckle	1,300 1,650 1,975 2,300
M-4-1 971- A		1. 000	7.0C 01.6	12 002 007	<u> </u>		-,,,,,,,
Total Elk County	· · · · · · · · · · · · · · · · · · ·	4,000	175,746	13,893,905 recorded	86+		

		E	LLIS COUNTY				
Antonino (1947)	27-14-197	200	8,033	86, 308	14	Arbuckle Basal sandsto	
Antonino Townsite (1949) Antonino Townsite East (1952)	2-15-19W 1-15-19W	80 40	6,549 3,010	31,242 3,010		Arbuckle LansK.C.	
Beeching (1943) Berlis-Shutts (1935) Riolman (1952) Blue Hill (1937)	34-15-16\f 16-11-17\f 24-15-18\f 14-12-16\f	500 16,000 40 1,200	9,658 3,612,381 2,913 130,909	229,719 71,558,125 2,913 2,011,405	556	LansK.C. Arbuckle Arbuckle Topeka LansK.C. Gorham Arbuckle	3,156 3,380 3,496 3,030 3,072 3,348 3,360
Brungardt* (1952) Burnett* (1937)	35-10-17 7 1-11-18 7	80 7 ,0 00	5,150 2,524,449	5,150 41,684,603		LansK.C. Shawnee LansK.C. Arbuckle	3,194 2,967 3,093 3,570
Burnett Northwest* (1946)	3-11-18 %	008	283,690	2,199,894	28	LansK.C. Arbuckle	3,450 3,617
Burnett Southwest (1946)	22-11-18W	1,690	492,130	3,400,650	79	Shawnee LansK.C. Simpson Arbuckle	3,074 3,207 3,582 3,633
Canyons (1948) Catharine (1936)	11-12-17W 3-13-17W	700 700	no runs 133, 650	8,566 675,368		LansK.C. LansK.C. Arbuckle	3,361 3,262 3,516
Catharine Northwest (194)	.) 4-13-177	340	61,706	473,559	10	LansK.C. Arbuckle	3,590
Catharine South (1946) Catharine Townsite (1949) Chrisler (1949) Christina (1949)	15-13-17W 9-13-17W 22-11-16W 22-12-16W	540 40 40 Com b	5,576 3,856	987,718 17,797 22,785 eram Northeast	1	Arbuckle Arbuckle LansK.C.	3,555 3,585 3,100
Dechant (1350) Dreiling (1949)	6-15-18W 21-14-16W	640	no report 141,028	1,888 335,181	20	Arbuckle LansK.C.	3,670 3,120
Ellis* (1942) Emmeram (1937) Emmeram Mortheast (1949)	31-12-20W 4-13-16W 27-12-16W	1,000 160 1,000	112,373 8,245 136,760		5	Arbuckle Arbuckle LansK.C. LansK.C.	3,367 3,832 3,262 3,272
Emmeram Townsite (1952)	6-13-16 w	40	485	485	1	Arbuckle LansK.C.	3,541 3,291
Experiment (1952) Fairport* (1923)	8-14-18▼ 8-12-15₩	40 1,050		2,791 2,881,497		Arbuckle Arbuckle LansK.C. Gorham Arbuckle Reagan	3,520 3,675 2,950 3,211 3,312 3,350
Fort Hays State College (1950)	1-14-19#	40	no runs	1,203	1	Arbuckle	3,806
Giinther (1952)	17-11-19W	80	9,319	9,319	2	LansK.C. Arbuckle	3,439 3,554
Haller (1936) Herl (1951)	10-11-18¥ 28-14-17¥	500	no report 47,408	24,643 60,093	8	Topeka LansK.C. Penn. congl. Arbuckle	3,045 3,382 3,453 3,476
Hertel (1952) Hertel Southwest (1952) Herzog (1940)	16-14-16W 17-14-16W 30-13-16#	40 40 470	6,385 3,560 100,653	6,385 3,560 1,131,356	1	LansK.C. LansK.C. LansK.C. Arbuckle	3,134 3,215 3,232 3,450
Irvin (1946) Irvin North (1951) Irvin Northeast (1951)	6-14-19\ 31-13-19\ 32-13-19\		159,290 ined with Irv ined with Irv	in	27	Arbuckle	3,860
Jacob (1951) Jensen (1952)	6-11-19 W 26-12-18 W	40 160	5,845 32,052	5,845 32,052		LansK.C. LansK.C.	3,542 3,531
Karlin (1951) Koblitz (1937)	14-13-17\\\ 23-12-18\\	320 1,300	64,560 280,514	92,347 1,299,674		Arbuckle LansK.C. LansK.C. Arbuckle	3,621 3,348 3,434 3,694



Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells		Depth to pro- ducing zone, feet
Kraus (1936)	22-14-19 W	100	3,080	130,486	2	Sooy	3,735
Krueger* (1948)	35-10-16W	640	172,980	589,537	20	Arbuckle LansK.C.	3,732 3,552
Leiker (1943)	14-15-18W	100	90,211	بلبلًا و199		LansK.C.	3,292
Lookout Hollow (1950)	22 11. 10w	40		3 000		Arbuckle	3,591
LOOKOUT HOLLOW (1950)	31-14-18 W	40	no runs	1,080	1	LansK.C. Arbuckle	3,629
Mendota (1951)	5-11-20W	160	18,076	19,610	5	LansK.C.	3,530
Nichalaan (2017)	20.77.20	٥٢٥	13 200	22.7 (2.1	,	Arbuckle	3,668
Nicholson (1945) Nicholson North (1952)	30-11-20 W 19-11-20 W	250 40	41,300	311,81/		Arbuckle	3,842
Penny-Wann (1936)	13-15-20W	80	6,883 8,060	6,883 167 , 440	2	LansK.C. Sooy	3,610
Pleasant (1944)	2-14-20	1,000	147,005	1,184,893		Arbuckle	3,653 3,833
120000 (2)44)	E-14-E31	1,000	24,,000	1,104,075	10	Reagan Penn. congl.	3,877
Pleasant North (1946)	26-13-20W		no report	2,168		Arbuckle	3,798
Pleasant Northwest (1952)		120	10,386	10,386	3	Arbuckle	3,814
Pleasant Ridge (1950)	20-12-17W	640	74,420	467,599	8	LansK.C.	3,408
Pleasant Ridge Southwest (1951)	19-12-17₩	40	9,327	14,537	. 1	Arbuckle Arbuckle	3,683 3,673
Polifka (1948)	7-13-17W	40	2,948	31,886	1	Arbuckle	3,640
Raynesford (1952)	17-13-201	40	3,901	3,901		Penn. congl.	3,870
Raynesford East (1952)	16-13-20W	70	no report	none	1	Arbuckle	3,561
Reed (1949)	5-13-17W	40	1,311	6,970		LansK.C.	3,424
Riverview (1943)	19-11-18W	1,020	145,915	1,716,359		Arbuckle	3,610
Rome (1952) Ruder (1935)	27-13-17 W 17-15-18 W	9110 710	634 1.0 370	634 1 186 51.6		Arbuckle	3,525
nuder (1955)	11-13-10#	OLLO	49,379	1,186,546	9	LansK.C. Arbuckle	3,422
Schmeidler (1944)	28-12-17W	1,000	69,148	1,26, 351	18	Arbuckle	3,572 3,625
Schmeidler (1944) Schoenchen (1946)	21-15-187	1,000	116,182	426, 354 828, 892		Arbuckle	3,569
Sessin (1952)	15-11-19 W	160	49,934	49,934		Arbuckle	3,499
Solomon (1936)	28-11-19W	2,500	517,601	984,024	65	Arbuckle	3,629
Sugarloaf (1941)	17-13-17W	360	95,981	519,468		Arbuckle	3,645
Sugarloaf East (1950)	21-13-17W	80	2,679	9,164		LansK.C.	3,391
Sugarloaf Southeast(1941) Sunnydale (1952)	1-14-20W	70 200	42,722	155,718		LansK.C.	3,312
Sweet William (1950)	10-12-20W	40	145 3,960	145 8,590	ļ	Arbuckle	3,850
(2),0,	10-11-10H	40) , ,,	0,550	-	LansK.C. Arbuckle	3,700 3,908
Toulon (1935)	3-14-17W	700	59,323	523, 385 ***	10	LansK.C.	3,298
				,	-	Arbuckle	3,512
Wert (1936)	12-13-18W	80	10,275	290,233	. 2	LansK.C.	
(Dont North (1961)	23 20 22	000	22 22	2/ 500	,	Arbuckle	3,707
Ubert North (1951) Ubert Northwest (1952)	31-12-17W 1-13-18W	280 80	33,774	36,728		Arbuckle	3,600
Walter (1936)	2-12-18W	1,700	10,849 317,069	10,849		Arbuckle Topeka	3,592
	Z-12-10W	19100	311,009	5,699,337	21	LansK.C.	3,160
						Arbuckle	3,619
Warren (1949)	12-11-20W	40	6,755	31,734	1	LansK.C.	3,458
Weisner (revived)(1952)	36-12-20W	40	1,509	1,509	1	Penn. congl.	3,863
Wheatland (1949)	18-15-17W	200	10,569	18,875	5	Arbuckle	3,571
Tounger (1944)	6-14-17W	400	28,722	234,719	8	Arbuckle	3,574
Pools or fields abandoned Total Ellis County		F7 630	33 070 300	197,683			
Total Bills County		51,630	11,070,399	147,287,280	1,565		
Andr ews (1952) Bloomer* (1936)	17-17 36-17-11W	40 2,850	1,817 803,569	1,817 12,460,436		Arbuckle Lans.—K.C.	3,302 3,044
Edwards* (1936)	318-8W	3,000	1,120,781	14,517,325		Arbuckle Simpson Arbuckle	3,257 3,157 3,278



Edwards North (1950)	10-17-8₩		ned with Edwar							
Heiken (1930)	25-17-107	160	18,082	65,490	4	LansK.C. Arbuckle	2,974 3,269			
Heiken North (1942)	24-17-10W	80	7,116	177,171	2	Arbuckle	3,212			
Kraft-Prusa* (1937)	10-17-11W	900	722 وبلبلا	899,306	17		2,885			
						LansK.C. Gorham	3,160 3,335			
						Arbuckle	3,281			
T (1011)	3 D 3 Z 3 Com	10	۲	8,469	,	Reagan	3,310 3,309			
Kraft-Prusa East (1944) Lorraine (1934)	18-17-10W 13-17-9W	40 2,000	5,350 104,204	10,556,821		Arbuckle LansK.C.	3,060			
		•				Arbuckle	3,200			
Maes (1952) Palacky (1949)	26-17-8W 31-16-10W	500 80	103,315 4,790	103,315 24,464	15 2	Arbuckle LansK.C.	3, 341 3, 148			
Falacky (1949))1-10-10 H	00	4, 170	24,404	-	Arbuckle	3,390			
Stoltenberg (1931)	22-16-10W	13,900	1,467,911	34,838,349	357	LansK.C. Arbuckle	3,260 3,333			
Vacek (1944)	32-15-10W	640	51,582	229,523	7	Arbuckle	3,315			
West (1951) Wilkens Southeast (1942)	20-17-10W	80 300	10, 394 12, 872	10,611 424,833	2 6	Arbuckle Arbuckle	3,287 3,220			
Total Ellsworth Cour		24,570	3,856,505	74,317,930	683	AL DUCK DE	J, 220			
Total Bilaworth com	1.57			14,511,550						
		FI	NNEY COUNTY							
Peyer (1952)	24-26-33W	40	3,210	3,210	1	LansK.C.	4,398			
Damme (1951)	21-22-33W	160	37,458	و663 وبليا	4	Mississippian	4,626			
Damme South (1952) Nunn (1938)	28-22-33W 27-21-3lw	40 1,200	no report 152,842	none 1,865,692		Mississippian Kansas City	4,690			
Ruin (1930)	51-51-244	1,200	152,042	1,005,052	24	Marmaton				
						Cherokee	4,550			
Sonderegger (1952)	21-22-317	40	1,209	1,209	1	"Miss. lime" Mississippian	4,654 4,737			
Stewart (1952)	6-23-307	40	2,870	2,870		Mississippian				
Total Finney County		1,520	197,589	1,917,644	32	•				
FORD COUNTY										
		F	ORD COUNTY							
Pleasant Valley (1951)	34-27-21 T	F 40	ORD COUNTY	9,339	1					
Pleasant Valley (1951)	34-27-21\)	40	_	9,339	1					
		40 Fra	1,938	9,339		#Souirrel#	750			
Pleasant Valley (1951) LeLoup Paola-Rantoul* (1860)	3l ₁ -27-21\(\bar{\pi}\) 15-20\(\bar{\pi}\) 17-21\(\bar{\pi}\)	40	1,938 NKLIN COUNTY 500+	9,339	1+	"Squirrel" Knobtown	750 300			
LeLoup Paola-Rantoul* (1860)	15-20E	40 FRA 40	1,938 NKLIN COUNTY 500+ 17,474	9,339	1+	Knobtown Hepler	300 400			
LeLoup Paola-Rantoul* (1860) a b	15-20E	40 FRA 40	1,938 NKLIN COUNTY 500+ 17,474 163,988	9,339	1+	Knobtown Hepler "Prue"	300			
LeLoup Paola-Rantoul* (1860) a b c d	15-20E	40 FRA 40	1,938 NKLIN COUNTY 500+ 17,474 163,988 10,524 511	9,339	1+	Knobtown Hepler	300 400 500 600			
LeLoup Paola-Rantoul* (1860) a b c d	15-20E	40 FRA 40	1,938 NKLIN COUNTY 500+ 17,474 163,988 10,524 511 26,995	9,339	1+	Knobtown Hepler "Prue" "Squirrel"	300 400 500 600			
LeLoup Paola-Rantoul* (1860) a b c d	15-20E	40 FRA 40	1,938 NKLIN COUNTY 500+ 17,1,71, 163,988 10,521, 511, 26,995 11,8,967	9,339	1+	Knobtown Hepler "Prue" "Squirrel"	300 400 500 600			
LeLoup Paola-Rantoul* (1860) a b c d e f g h	15-20E	40 FRA 40	1,938 NKLIN COUNTY 500+ 17,474 163,988 10,524 511 26,995 148,967 1,139 19,738	9,339	1+	Knobtown Hepler "Prue" "Squirrel"	300 400 500 600			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous	15-20E 17-21E	40 FRA 40 6,000	1,938 NKLIN COUNTY 500+ 17,171 163,988 10,521, 511 26,995 118,967 1,139 19,738 16,892		1+ 337+	Knobtown Hepler "Prue" "Squirrel" "Squirrel" "Bartlesville"	300 400 500 600			
LeLoup Paola-Rantoul* (1860) a b c d e f g h	15-20E 17-21E	40 FRA 40	1,938 NKLIN COUNTY 500+ 17,474 163,988 10,524 511 26,995 148,967 1,139 19,738	9,339 8,583,128 recorded	1+	Knobtown Hepler "Prue" "Squirrel" "Squirrel" "Bartlesville"	300 400 500 600			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous	15-20E 17-21E	40 FRA 40 6,000	1,938 NKLIN COUNTY 500+ 17,171 163,988 10,521, 511 26,995 118,967 1,139 19,738 16,892	8,583,128	1+ 337+	Knobtown Hepler "Prue" "Squirrel" "Squirrel" "Bartlesville"	300 400 500 600			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous Total Franklin Count	15-20E 17-21E	40 FRA 40 6,000	1,938 PIKLIN COUNTY 500+ 17,1/17, 163,988 10,521, 26,995 11,8,967 1,139 19,738 16,892 106,698	8,583,128 recorded	1+ 337+	Knobtown Hepler "Prue" "Squirrel" "Bartlesville"	300 400 500 600 700			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous Total Franklin Count	15-20E 17-21E 24 25 25 26 27 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	40 FRA 40 6,000	1,938 NKLIN COUNTY 500+ 17,474 163,988 10,524 511 26,995 148,967 1,139 19,738 16,892 406,698 OVE COUNTY 624 12,996	8,583,128 recorded	1+ 337+ 338+	Knobtown Hepler "Prue" "Squirrel" "Bartlesville" LansK.C.	300 400 500 600 700 4,079 1,287			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous Total Franklin Count Beougher (1952) Coberly (1951) Gove (1951)	15-20E 17-21E ty 8-13-30W 15-14-29W 26-13-30W	40 FRA 40 6,000	1,938 NKLIN COUNTY 500+ 17,1/71 163,988 10,521 26,995 11,8,967 1,139 19,738 16,892 106,698 OVE COUNTY 621 12,996 3,017	8,583,128 recorded 624 32,239 3,047	1+ 337+ 338+	Knobtown Hepler "Prue" "Squirrel" "Bartlesville" LansK.C. Marmaton Mississippian	1,079 4,287 4,287 4,547			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous Total Franklin Count	15-20E 17-21E 24 25 25 26 27 27 28 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	40 FRA 40 6,000	1,938 NKLIN COUNTY 500+ 17,474 163,988 10,524 511 26,995 148,967 1,139 19,738 16,892 406,698 OVE COUNTY 624 12,996 3,047 no report 2,324	8,583,128 recorded 624, 32,239 3,047 740 2,32h	338+ 1 2 2	Knobtown Hepler "Prue" "Squirrel" "Bartlesville" LansK.C.	300 400 500 600 700 4,079 4,287 4,547 3,670			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous Total Franklin Count Beougher (1952) Coberly (1951) Gove (1951) Jasper (1951) Lundgren (1952) Lundgren South (1952)	15-20E 17-21E 17-21E 8-13-30W 15-14-29W 26-13-30W 30-15-29W 30-14-29W 31-14-29W	40 FRA 40 6,000	1,938 NKLIN COUNTY 500+ 17,1/71 163,988 10,521 26,995 11,139 19,738 16,892 106,698 OVE COUNTY 621 12,996 3,017 no report 2,321 3,929	8,583,128 recorded 624 32,239 3,047 740 2,324 3,229	1+ 337+ 338+	Knobtown Hepler "Prue" "Squirrel" "Bartlesville" LansK.C. Marmaton Mississippian LansK.C. Mississippian Mississippian Mississippian	1,079 4,287 4,547 3,670 4,370 4,387			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous Total Franklin Count Beougher (1952) Coberly (1951) Gove (1951) Jasper (1952) Lundgren (1952)	15-20E 17-21E 17-21E 8-13-30W 15-11-29W 26-13-30W 30-15-29W 30-15-29W 30-11-29W	6,000	1,938 NKLIN COUNTY 500+ 17,171 163,988 10,521, 26,995 11,139 19,738 16,892 106,698 OVE COUNTY 621, 12,996 3,017 no report 2,321, 3,929 3,561	8,583,128 recorded 624, 32,239 3,047 740 2,324, 3,229 3,581	1+ 337+ 338+	Knobtown Hepler "Prue" "Squirrel" "Bartlesville" LansK.C. Marmaton Mississippian LansK.C. Mississippian	300 400 500 600 700 1,,079 4,287 4,547 3,670 1,306			
LeLoup Paola-Rantoul* (1860) a b c d e f g h Miscellaneous Total Franklin Count Beougher (1952) Coberly (1951) Gove (1951) Jasper (1951) Lundgren (1952) Lundgren South (1952)	15-20E 17-21E 17-21E 8-13-30W 15-14-29W 26-13-30W 30-15-29W 30-14-29W 31-14-29W	40 FRA 40 6,000	1,938 NKLIN COUNTY 500+ 17,1/71 163,988 10,521 26,995 11,139 19,738 16,892 106,698 OVE COUNTY 621 12,996 3,017 no report 2,321 3,929	8,583,128 recorded 624 32,239 3,047 740 2,324 3,229	1+ 337+ 338+	Knobtown Hepler "Prue" "Squirrel" "Bartlesville" LansK.C. Marmaton Mississippian LansK.C. Mississippian Mississippian Mississippian	1,079 4,287 4,547 3,670 4,370 4,387			



TABLE 66 .- Oil production in Kansas during 1952, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells		Depth to pro- ducing zone, feet
		CER	AHAL COUNTY				
Alda (1944) Alda West (1952) Rass (1950)	15-7-22W 16-7-22W 12-10-21W	ЏО Combi	no report 5,502 ned with Cooper	23,740 5,502	1	LansK.C. LansK.C.	3,518 3,719
Bass Southwest (1952) Cooper (1950)	14-10-21W 11-10-21W	Combi 3,840	ned with Cooper 1,165,854	2,224,280	88	LansK.C.	3,528
(2072)		10	4 600	30 634	,	Arbuckle	3,841
Crocker (1951)	18-10-21W	40	6,625	10,816		Arbuckle	3, °16
Dorman (1952)	30-10-23W	70	1,282	4,282		LansK.C.	3,921
Fargo (1950)	26-9-22W	120	12,226	39,290		LansK.C.	3,622
Fargo West (1951)	34-9-22W	80	1,101	1,101		LansK.C.	3,755
Faulkner (1945)	27-10-22 W	160	9,786	181,163		LansK.C.	3,629
Gettysburg (1941)	7-8-23W	80	4,163	58,221		LansK.C.	3,725
Harmony (1951)	32-7-22W	160	29,591	30,508		LansK.C.	3,597
Highland (1951)	20-8-22W	40	2,560	5,953		LansK.C.	3,616
Houston (1947)	9-6-22₩	40	1,874	18,485		LansK.C.	3,506
Ironclad (1950)	23-9-22W	200	45,936	97,917		LansK.C.	3,756
Laura* (1950)	30-10-20	40	5,355	8,766		Arbuckle	3,706
Law (1951)	34-9-237	900	168,084	269,178	15	LansK.C.	3,922
						Penn. congl.	4,126
Mickleson (1952)	27-8-2 2W	40	1,736	1,736	1	Arbuckle	3,759
Millbrook (1951)	21-8-23W	40	8,660	10,150	1	LansK.C.	3,761
Morel (1938)	15-9-21W	6,400	2,094,964	14,858,529	207	Sooy	3,712
		•				Arbuckle	3,718
Morel Bast (1949)	13-9-21W	360	58,993	213,436	6	Arbuckle	3,729
Morlan (1949)	23-10-21W	360	78,018	242,725	10	Arbuckle	3,778
Muilenburg (1949)	1-10-21W	80	4,659	18,637		Arbuckle	3,839
Noah (1952)	27-10-21W	120	12,628	12,628	3	LansK.C.	3,651
• • • •			•	•	_	Arbuckle	3,786
Penokee (1940)	11-8-2hW	130	22,345	196,737	6	LansK.C.	3,750
Ray* (1949)	32-5-20#	40	217	967		LansK.C.	3,297
	, , , , , , , , , , , , , , , , , , ,			, - •	_	Arbuckle	3,575
						Reagan	3,540
Schmied (1952)	21-8-25W	160	14,203	14,203),	LansK.C.	3,740
Schmied North (1952)	16-8-25W	80	3,543	3,543		LansK.C.	3 705
	8-8-22W	40	ارمهر ور	4,094			3,795
Schnebly (1952)	1-9-25 W	40	4,094			LansK.C.	3,507
Shiloh (1951)			11,183	12,868		LansK.C.	4,013
Smith-Denning (1950)	5-10-21 W	400	78,816	214,993	,	LansK.C.	3,530
0-145 D1 W4 (2071)	6 30 03 -	140	30 000	20 404		Arbuckle	3,818
Smith-Denning West (1951)	0-10-51#	160	19,825	22,686	4	LansK.C.	3,851
White (1052)	25 10 21#	80	9 677	9 455	•	Arbuckle	3,680
White (1952)	25-10-21 W		8,655	8,655		Arbuckle	3,716
Wild Horse Creek (1950)	16-9-22W	40	no runs	10,095		Arbuckle	بلنا9,3
Worcester (1951)	23-7-22₩	40	4,817	6,876	1	Arbuckle	3,792
Pools or fields abundoned				12,765			
Total Graham County		14,390	3,910,297	18,845,525	392		
		GREEK	NWOOD COUNTY				
Atyeo* (1925)	30-21-10E				164	WDowk3 count 33 -	
Beaumont		300	102,969		70+	"Bartlesville	2,250
Togardifor to	27-8 E	500	62,991		٥ر	"Peru"	1,830
						Mississippian	
Bassmant Namth	22 0=	1.0	7 903			Arbuckle	2,740
Beaumont North	27 -98	40	7,803		1	Mississippian	
Danier	0.00 0-	10	100			Ordovician	2,800
Beaumont South (1935)	2-28-8	10	409			Mississippian	
Blackwell (1925)	16-24-13B	160	2,113		4.	Mississippian	1,650
Blankenship* (1921)	26-8 B	300	21,994		5+	"Bartlesville	2,650
Brinegar	26 - 138	80	5,040 105,482		1+		
Browning (1924)	22-103	1,200	105,482		70	"Bartlesville	2.314

			•		
Burkett (1923)	24-23-10E	1,800	275,860	86 "Bartlesville" 2,00	20
Burt (1949)	8-26-11E	40	1,609	1+ Mississippian 1,94	
Climax (1925)	27-11E	180	14,789	2+ Mississippian 1,90	00
DaMalorie-Souder (1924)	22-10E	2,000	298,501 55,262	67 "Bartlesville" 2,15	₅ 0
Dunaway# (1922) Eureka	34-22-13E 31-25-11E	1,800 1,800	81,764	30+ Mississippian 1,80 60 Fort Scott 1,75	in
Buttha)1-1)-11 3	1,000	01,104	Lississippian 2,00	
Fankhouser* (1926)	4-22-12E	800	197,687	37 "Bartlesville" 1,85 3 "Bartlesville" 1,85	50
Gaffney (1926)	18-24-11E	100	6,465	3 "Bartlesville" 1,85	60
Gilroy (1928) Hamilton (1925)	12-25-12E 7-2l:-12E	40 3,000	202	l+ Mississippian 1,60 33+ "Bartlesville" 1,65	JU ≾∩
a a	1-54-156	5,000	158,313	Mississippian 1,80	00
Ъ			4,044		
Hinchman (1927)	17-24-13E	160	5,470	4 Mississippian 1,61	١5
Hollis (1927)	16-23-10E	40	1,629	1 "Rartlesville" 2,15	
Honey Creek (1950) Hubbard	32-26-11E 22-13E	40	no report 932	Mississippian 1,87	T
Jackson	25-8E	100	//	2 "Fartlesville"	
a			3,186		
b	01 335	10	1,230	3	
Jobes "Klmbal"	24-135 28-25-135	70 70	5,947 1,442	1 1	
Lamont (1926)	29-22-13E	1.800	221,127	54 "Bartlesville" 1,70	00
Madison	14-22-11E	1,900	350 , 704	الله "Bartlesville" 1,80)(
"Mignot"	9-22-11E		no report		
Morris (1950) Parks	28-21:-13E 24-10E	40	no repart 719	1	
Pixlee (1923)	7-22-10E	900	40,677	26+ "Bartlesville" 2,35	50
(10.22)		•	•	Mississippian 2,40	00
Polhamus (1922)	25-9E	700	با12 و 1 بليا	34+ "Bartlesville" 2,18	30
Quincy* (1926)	31-24-12E	1,200	5,776	20+ "Bartlesville" 1,50 Mississippian 1,72)O
b			51,402	arsonsorppium 1, ic	. •
Reece	24-26-9E	800		24 Kansas City 1,38	
a.			5,153	Mississippian 2,10	Ю
b Sallyards	25-8E	2,400	22,480	51+ "Bartlesville" 2,35	60
a	2)-01	2,400	197,618)1. Bar 010011110	
Ъ			2,547		
Scott (1925)	24-23-8E	1,000	78 , 245	39 "Bartlesville" 2,52	
Seeley-Wick a	28-23-11E	5,000	1,266,540	283 "Bartlesville" 1,93	,0
ъ			5,551		
Sever y*	8-28-11 E	900		3 Kansas City 1,20	Ю
a.			3,471		
b Severy North	27-11E	40	3,201 972	1	
Stanhope	15-26-8E	160	19,346	10 Mississippian 2,45	60
Teeter* (1920)	16-23-9E	3,000	205,989	54 *Bartlesville 2.40	00
Teichgraber a	25–8E	600	11 200	18 "Bartlesville" 2,75	0
ъ			11,288 472	192 "Bartlesville" 2,17	U
Thrall-Aagard	14-24-9E	4,200		192 "Bartlesville" 2,170	0'
a .		-	1,940,716	•	
b Tonovay	25-11 E	40	4,752 2,145	1	
Tonovay North	27-116	40	no report	1	
Tonovay West (1950)	33-25-11B	40	516	l Mississippian 1,94 l "Peru" 1,00	8
Toronto# (1913)	16-26-13E	160	2,925	1 "Peru" 1,00	Ø
Tucker			no report	"Bartlesville" 1,70	N
Virgil (1916)	14-24-12E	3,600	150,888	100+ "Bartlesville" 1,55	ю
				Mississippian 1,70	00
Virgil North# (1920)	22-23-13 B	5,000	286,743	200 + "Bartlesville" 1,58	35
Wiggins (1925)	30-24-11 E	1,800	23,998	Mississippian 1,84 25+ "Bartlesville" 1,86	
Wilkerson (1926)	6-25-98	300	17,031	1+ "Bartlesville" 2,20	00
Willard	7-27-11 B	400	8بلبلو 39	13 Miss. "chat" 1,90	Ю



	TABLE 66.—0	Dil productio	m in Kansas du	ring 1952, contin	ued		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells		Depth to pro- ducing zone, feet
Miscellaneous Total Greenwood Cour	nty	50,700	6,290 6,834,217	184,543,957	1,660		
				recorded			
		HA	RPER COUNTY				
Bluff Creek (1952) Grabs (1949)	24-34-5W 13-31-9W	40 200	1,088 14,054	1,088 32,077		LansK.C. Mississippian	3,938 4,400
Total Harper County		240	15,142	33,165	5	·	
		НА	RVEY COUNTY				
Burrton* (1931)	1-23-4W		Included	with Reno Coun	ty	Mississippian	
Burrton Northeast (1942)	3-23-3W	200	1,651	7,607	4		3,583 3,224
Graber* (1934)	32-21-1W	40	2,845	148,455	1	Mississippian "Misener" "Hunton"	3, 269 3, 323
Halstead (1929) Hollow-Nikkel* (1931)	36-22 -2W 30 -22-3W	1,300 2,000	28,506 114,423 Includes production	1,916,163 20,802,888 McPherson Coun	11 40 ty	"Chat"	3,274 3,005 3,195 3,507
Jester Creek (1949) Sperling (1935) Pools or fields abandone	3–24–1E 23–22–2 W d	300	no report 11,861	1,202 599,286 123,238	5	LansK.C. "Hunton"	3,500 2,687 3,279
Total Harvey County		3,840	159,286	23,598,839	61		
		HOD	GEMAN COUNTY				
Jetmore (1950) Purdyville (1951)	24-22-24₩ 3-24-24₩	80 640	14,212	47,520 165,863	2 8	Mississippian Penn. congl. Mississippian	4,651
Total Hodgeman Coun	ty	720	133,928	213,383	10		•
		Jeff	ERSON COUNTY				
McLouth (1939)	4-10-20 E		no report			McLouth Mississippian	1,450
McLouth North (1941)	29 - 9-20 E	150	1,318 176		2+	McLouth Mississippian	1,450
Total Jefferson Cou	nt y	150	1,494	875,083 recorded	2+		
		JOH	NSON COUNTY				
Dallas	13-13-24E		no report				
		KCB	ARNY COUNTY		•		
Patterson (1941)	23-22-38 w	120	28,229	379,979	3	"Patterson sd	4,748
		KIN	CMAN COUNTY				
Artesian Valley (1952) Bartholomewww (1948) Broadway (1950)	22-27-10W 30-27-LW 21-28-5W	80 240 1,200	8,87կ 7,572 2կկ,33կ	8,874 57,668 457,583		Viola "Miss. lime" Mississippian	4,315 3,732 3,833
Casley (1952)	11-28-5W	40	1,055	1,055		Mississippian	3,794

	0	ana Gas L	revelopments, i	.,,,,,	103
Cunningham* (1931) Dewey (1950) Dresden (1951)	7-28-11\\\ 9-28-5\\\ 13-27-10\\\	800 640 800	63,686 80,187 235,502	3,049,243 152,853 374,627	33 LansK.C. 3,390 10 Mississippian 3,801 24 Mississippian 4,002 Viola 4,270
Evan Mound (1951) Lansdowne North (1951) Pat Creek (1946)	22-27-5 w 4-28-5 w 20-28-9 w	40 40 160	5,554 5,887 21,638	10,030 14,586 129,724	l Kississippian 3,800 l Mississippian 3,814 l4 Viola 4,706
Spivey (1951) Pools or fields abandoned	23-30-8 w	80	8,248	9,679 27,000	Simpson 4,475 2 Mississippian 4,205
Total Kingman County		4,120	682,537	4,292,922	115
		KI	OWA COUNTY	•	
Brenham (1947) Exel (1948) Total Kiowa County	29-28-17# 20-30-20#	40 40 80	179 <u>7,040</u> 7,219	179 39,624 39,803	1 Miss."chert" 4,821 1 "Miss. lime" 5,126
		LAB	ETTE COUNTY		
Altamont Banzet Chetopa Coffeyville-Cherryvale* a b c d	33–19E 35–19E 36–34–20W 32–17B	600 140	72 no report no report 1,024 1,385 42 95		1 1+ "Wayside" h00 Fort Scott 600 "Bartlesville" 1,000
Lake Creek Mound Valley Price (1917)	35–19E 32–18E 33–18E	40 40 300	1,276 3կկ		1+ 1+ "U.Bartlesville" 630 "L.Bartlesville" 700 Mississippian 900 17+ "Bartlesville" 600
a b Miscellaneous	22	2.0	75 2,100 <u>1,048</u>		<u>.</u>
Total Labette County	r	1,020	7,461	362,353 recorded	21+
		1	ANE COUNTY		
North Fork (1952)	19-17-29W	40	2,954	2,954	1 LansK.C. 4,333
		LEAVE	NWORTH COUNTY		
Ackerland (1941) Banker's Life (1941) Total Leavenworth Co	12-10-20E 3-10-20E ounty		no report no report	81,050 re corded	McLouth 1,370 McLouth 1,450
		I	INN COUNTY		
Centerville* (1920) a b c d	10-21-22E	1,100	780 230 15, 304 287		10* "Squirrel" 480 "Bartlesville" 720
Goodrich-Parker (1922)	25-20-21E	1,200	477 33 , 297		95+ "Squirrel" 600 "Bartlesville" 700
LaCygne-Cadnus a b c	20–2l₁B	900	10, ևև3 8և2 և76		38 + Bandera 150 Labette 200
Total Linn County		3,200	62,136	684,822 recorded	<u>1</u> 1 ₁ 3 +



TABLE 66 .- Oil production in Kansas during 1952, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952,bbls.	No. pro- ducing wells		Depth to pro- ducing zone, feet
		1	YON COUNTY				
Atyeo* (1925) Bradfield Bushong (1950) Fankhouser* (1926) Ritchey-Moore Rock Creek (1947) Total Lyon County	30-21-10E 24-21-10Z 26-16-10E 4-22-12E 34-21-10E 32-21-11E	1,000 40 40 1,100 40 160 2,380	192,452 4,10,8 3,691 40,538 21,168 2,972 264,969	6,126,455 recorded	1+ 1+ 7+	"Hunton" "Partlesville" "Bartlesville	2,950 1,850
		MCP:	ERSON COUNTY				
Battle Hill (1945) Battle Hill North (1948) Bittkofer (1940) Bittkofer (1946) Bittkofer North (1946) Bonaville (1949) Bornholdts (1937) Burk (1948) Canton North (1936) Chindberg (1929)	24-18-1W 13-18-1W 1-20-1W 25-19-1W 33-17-2W 30-20-5W 7-18-1W 26-18-1W 18-19-2W	40 40 160 80 3,000 120 540 600	2,595 13,917 3,734 no report 2,342 258,777 11,215 36,269 14,069	43,388 53,008 212,064 9,043 15,998 11,711,076 82,854 613,614 1,777,357		"Chat" "Miss. lime" "Chat" "Miss. lime" Simpson "Chat" Mississippian "Chat" LansK.C. "Chat"	2,825 2,811 2,885 2,892 3,557 3,292 2,781 2,803 2,363 3,007
Coons (1940) Crowther (1942) Georob (1947) Graber* (1934)	13-19-1W 26-17-1W 31-17-1W 32-21-1W	80 1,500 1,560 2,300	3,198 129,368 336,881 790,786	5,047 2,866,278 1,547,993 10,578,865	2 45 40 111	"Chat" "Chat" "Misener" "Hunton"	2,778 2,665 3,323 3,274
Gypsum Creek (1944) Henne (1940) Hollow-Nikkel* (1931)	4-17-1W 21-17-1W 30-22-3W	800 1470	31,407 39,058 Included	370,587 1,427,824 with Harvey Co	13 16 unty	"Chat"	2,619 2,658 3,195 3,507
Jenday (1944) Johnson (1932) Johnson South (1950) Lindsborg (1938)	1-19-2 W 35-19-3 W 11-20-3 W 8-17-3 W	1,000 920 40 5,400	39,727 52,889 2,135 491,081	804,448 3,332,759 8,153 6,780,634	27 9 1 103	Simpson "Chat" "Chat" Mississippian Viola	3,500 2,984 3,032 3,043 3,352
McPherson (1926)	29 - 18 -2₩	1,500	57,107	1,527,505	30	Simpson LansK.C. "Chat"	3,360 2,340 2,967
Maxwell (1948) Paden (1943)	17-18-1W 10-18-1W	160 640	5,409 238,016	23,655 2,439,851	կ կ2	Viola "Miss. lime" "Chat" Viola	3,140 2,846 2,752 3,153
Paden South (1950) Reuben (1949) Ritz-Canton (1929)	21-18-1 W 17-18-2 W 1-20-2 W	160 80 12,000	15,164 4,653 451,334	23,565 18,103 4 2,6 41,170	4 2 177	Mississippian Simpson "Chat"	2,765 3,675 2,935
Roxbury (1938)	18-17-1W	1,000	80,655	3,007,970	29	Viola "Chat" Simpson	3,412 2,684 3,278
Roxbury South (1942) Roxbury Southeast (1943) Voshell (1929)	30-17-1₩ 20-17-1₩ 9-21-3₩	240 240 3, 500	10, 339 17, 089 226, 809	313,977 79, 351 28 ,323, 574	4 4 61	"Chat" "Chat" "Chat" Viola	2,658 2,665 3,095 3,301
Total McPhersor Coun	t y	38,140	3,366,023	120,639,731	867		
		MA	RION COUNTY				
Antelope (1947) Antelope North (1948)	33–18–4 E 28–18–4 E	40	no report 2,789		1	Miss. "chat" Kansas City	2,380 1,840

Brewster a b	32 - 16 B	MONT 700	4,129		50 1	* "Bartlesville" Arbuckle	900
		MONT	COMMERY COUNTY				
g h "Pressonville" i "Pressonville" j "Stanton" k "Osawatomic" l "Osawatomie" m "Osawatomie" Miscellaneous Total Miami County		12,800	18,470 23,796 63,747 21,291 2,143 31,990 1,540 13,740 591,153	13,945,296 recorded	677		
Paola-Rantoul# (1860) a "Big Lake" b c "Pressonville" d "Pressonville" e "Pressonville" f Paola-Rantoul	17 -23 E	12,000	68, 324 12, 164 11, 418 1,667 312, 281 3, 132		J	Hepler "Peru" "Squirrel" "Bartlesville"	1,00 500 600
Block Louisburg a b Backsontonia (1860)	18-24B 17-25B	300 500	1, կկ9 3, 397 60կ			Knobtown "Peru" "Squirrel" Knobtown	270 430 600 300
-		MI	AMI COUNTY				
Total Meade County		2,210	203,012	242,078	36	Mississippian	
Adams Ranch (1948) Adams Ranch East (1947) Bromwell (1952) McKinney (1950) Novinger (1951)	8-35-30W 36-34-30W 7-34-29W 2-34-26W 26-33-30W	40 80 40 250 1, 800	90 14,500 2,878 3,596 181,948	1,362 27,631 2,878 3,596 206,611	16	Marmaton Morrowan Mississippian Marmaton Korrowan	5,346 5,901 5,762 5,270 5,765
				recorded			
Shank (1952) Wenger (1947) Miscellaneous Total Marion County	12-22-3E 11-21-4E	10,280	7,841 106,979 330 567,290	7,841 549,164 32,630,289		Wississippian "Hunton"	2,770
b c Propp	15-4E	20, 2 160	74 7,751	20,220	5	Mind order	o 1 ml.
(1948) Peabody (1920)	9-22-4B	1,000			20	Viola	2,500
Lehigh (1946) Lost Springer (1926) Lost Springs East (1942) Lost Springs Southeast	27–19–1 E 22–17–4 E 35–17–4 E 10–18–43	160 4,800 40 160	7,711 198,319 1,569 2,567	87 , 9 <u>63</u> 6,956	160 1+	Viola Mississippian Mississippian Miss. "chat" Mississippian	2,350
Elbing North (1947) Fanska (1943) Florence (1920) Hillsboro (1928)	27-22-4E 6-17-1E 18-21-5E 7-19-3E	500 40 700 500	7,333 4,826 11,020 23,129	57 , 455	. 8	Viola Miss. "chat" Miss. "chat" Viola Mississippian	2,530 2,439 2,680 2,300 2,470
Biscuit Hill (1952) Cedar Creek (1950) Covert-Sellers (1920) Elbing* (1918)	33-21-LE 31-20-5E 28-21-LE 18-23-LE	40 1,200 100	no report 283 142,841 5,232	1,898	47	Mississippian Viola Viola Kansas City Mississippian	2,563 2,400 2,120 2,400



Table 66.—	Oil pri	oduction	in Kansas	during	1952,	continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing zone, feet
c d			32,573 48				
e.			0 اراتا 140				
Caney	35-14E	600	7,523		8+	"Bartlesville	1,320
Coffeyville-Cherryvale*	(1902)33 –178	4,500			300+	"Wayside"	400
a b			4,221			Fort Scott	600
C			157 2,107			"Bartlesville Arbuckle	1,300
d			56			AL DUCK 18	19 700
e			79				
f			2,456				
g h			1,463				
i			556 61				
j			333				
k			29,248				
1			12,987				
m n			35 53				
0			18				
p			. 1,018				
Coleman (1921)	28-32-11:E	80			2+	Arbuckle	1,700
a. b			36				
Jeffe rson-Sy camore (190)	3) 18-33-15%	5,000	3146		1,00+	"Weiser"	800
a), 10- <u>)</u>	,,000	336,326		400.	"Bartlesville	-
ъ			3,973				•
Ç			299				
d ●			18,034 289				
Í			56				
g			15 , 932				
h			990				
i			804				
j k			253 55				
î			3, 262				
m			1,643				
n			779				
0			33,122				
p leodesha#	31-16E	800	36		10+	"Bartlesville	950
a)1 10D	000	284			541 0100 11110	,,,,
ъ			5,477				
Ç			1,006				
d 'Scott"	18-31-15B	40	70 50				
Sorghum Hollow	32 -148	1.800	3,851		3+	"Weiser"	800
Tyro (1904)	13-35-14E	2,000	2,100			Bartlesville	" 1,250
		-	11,154				
b Format de Verrenes (2001.)	2). 11.0	6 000	1,219		149	"Wayside"	575
Wayside-Havana# (1904)	34-14E	6,000	137,037		1417	"Weiser"	700
5 5			1,060			"Bartlesville	
tiscellaneous			742				-
Total Montgomery Co	ounty	20,520	677,863	41,063,051 recorded	927 +		
		MO	RRIS COUNTY				
Burdick (1949)	15-17-5 e	160	4,785	22,188	4	Mississippian	2,220



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Ray* (1940)	32-5-20 W	NOF 340	40,506	246 , 425 <u>.</u>	6	LansK.C. Arbuckle Reagan	3,297 3,575 3,540
Total Ness County		5,460	318,853	3,048,764	بلبا		-
Kansada West (1950) Manteno (1945) Pools or fields abandoned	28-17-26 W 31-19-25 W	160	no report 2,860	none 52,796 7,581	_	Mississippian "Warsaw"	4,438
Aldrich (1929) Arnold (1943)	7-18-25 W 22-16-25 W	5,000 300	287,215 28,778	2,660,041 328,346	37 5	"Warsaw" Fort Scott	4,428 4,436 4,528
		V7	SS COUNTY	recorded			
Total Neosho County		10,960	72,178 645,001	21,752,509	670+		
a b c d e Thayer Trent Urbana Miscellaneous	29-17E 28-21E 28-18E	40 40 300	1,090 7,567 1,037 4,16 2,346 75 626 4,097		1 1 2+	"Bartlesville"	750
a b c d e f f Kimball Kurehead St. Paul-Walmut*	27-21 E 30-30-16 E 29-21 E	40 100 1,600	3,215 2,315 95,702 597 399,579 6,773 208 10,829 4,909 1,970 1,732			"Bartlesville" "Bartlesville"	
a b c Canville Creek Humboldt-Chanute*	27 – 20 e 27 – 18 e	40 5,000	261 23, 344 4,016 119		1 636+	"Bartlesville"	700
Erie (1903)	28-20 E	3,600	OSHO COUNTY		17+	"Bartlesville"	650
				recorded			
Sabetha (1950) Strahm (1948) Total Nemaha County	13–2–114E 27–2–114E	320 320 640	8,912 25,311 34,223	21,684 75,152 96,836		"Hunton" "Hunton" Viola	2,826 2,879 3,559
		NE	MAHA COUNTY				
Richfield (1948)	17-32-40 w	40	no runs	829	1	Basal Penn. (Atokan)	4,99
			RTON COUNTY				
Three Mile Creek South (1950) Total Morris County	35-16-5E	1,460	25,427 47.860	55,758 141,305	15	Mississippian	2, 10
Three Mile Creek (1950)	25-16-5E	600 700	17,648	63,359		Mississippian	

Blowout (1952)

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells	Producing zone	Depth to pro ducing zone, feet
Ray West (1945) Pools or fields abandoned	26-5-21 W	160	13,1,81	105,324 32,054	4	Arbuckle	3,650
Total Norton County		500	53,987	383,803	10		
		OSI	ORNE COUNTY				
Ruggles (1952)	23-10-15 W	640	73,200	73,200	12	Shawnee LansK.C. Penn. congl.	2,986 3,024 3,394
		PA	WNEE COUNTY				
Ash Creek* (1947)	31-20-15W	400	2,361	240,495	3	Arbuckle	3,787
Ash Creek Southwest (1947)		40	6,841	97,708	1	Arbuckle	3,779
Penson (1945)	30-23-15₩	200	19,619	199,604	5	LansK.C.	3,853
Benson South (1952)	30-23-15₩	80	11,060	11,060	2	LansK.C.	3,754
Benson Southeast (1946) Evers (1951)	32-23-15W 1-22-16W	200 240	31,213	31,213	5	LansK.C.	3,709
Evers (1991)	1-22-10	240	39,043	39,205	0		3,525 3,861
						Simpson Arbuckle	3,908
Garfield (1947)	17-23-1.7₩		no report	7,309		Kinderhookian	4,276
Larned (revived) (1952)	28-21-16W	160	13,039	13,728	h	Arbuckle	3,877
Pawnee Rock* (1936)	13-20-16W	3,200	340,070	2,999,681	57	Arbuckle	3,832
Pawnee Rock West (1949)	23-20-16W		ned with Pawn	e Rock	,		2,-2-
Rutherford (1946)	8-20-16W	300	18,576	249,111	6	Arbuckle	3,815
Rutherford East (1950)	4-20-16W	Combi	ned with Ryan		•		2,2
Ryan* (1945)	35 - 19-16 ₩	400	44,843	443,425	8	Arbuckle	3,656
Ryan Southeast (1945)	12-20-16 W	300	17,286	286, 763	9	Arbuckle	3,688
Shady (1948)	35-22-16₩	80	no runs	6,038	2	Arbuckle	4,067
Zook (1942)	16-23-16₩		no report	7,016		Arbuckle	4,066
Total Pawnee County		5,600	543,951	4,632,346	108		
		PHI	LLIPS COUNTY				
Beckman (1951)	3-4-19\	40	2,200	3,297		LansK.C.	3,201
Bow Creek (1939)	25-5-18¥	120	7,063	62,087		LansK.C.	3,111
Dayton (1941)	26-2-19W	1,540	51,199	1,004,992		LansK.C.	3,430
Fredericksburg (1952) Glenwood (1951)	4-1-18W	40 40	3,267	3,267		LansK.C.	3,457
Hansen (1943)	21-1-17W 14-5-20W	940	2,814 232,817	7,635		LansK.C.	3,597
	11-)-EUN	940	2329011	1,944,826	33	LansK.C. Arbuckle	3,363 3,530
Hansen West (1952)	15-5-20W	ЬO	458	1458	1	Arbuckle	3,543
Huffstutter (1949)	6-2-18₩	3,600	624,858	2,229,800		LansK.C.	3,1444
Huffstutter Southwest (1951	.)23-2-19W	200	28,389	30,600		LansK.C.	3,458
Kent (1951)	22-1-18W		no report	1,472	-	LansK.C.	3,432
Logan (1945)	3-5-20₩	420	42,132	346,783	12	LansK.C.	3, 149
		_				Arbuckle	3,381
Ray* (1940)	32-5-207	4,200	1,583,886	14,355,929	158	LansK.C. Arbuckle	3,297 3,575
@linkar (1061)	25-4-20W	160	של לשם	30 500	1.	Reagan	3,540
Slinker (1951) Stuttg art(19 50)	25-4-20₩ 14-3-19₩	640	25,570 80,587	32,580 135,226		LansK.C.	3,215
Stuttgart (1950)	23-3-19W	40	4,666	1)7,220		LansK.C.	3,146
Pools or fields abandoned		40	4,000	9,771 1,596		LansK.C.	3,291
Total Phillips County	•	12,020	2,689.906	20,170,319	386		

8-27-14W

40

1,767

1,767

1 Lans.-K.C.

3,929

Chance (1946)	4-27-13 ₩	1,500	647,814	1,511,557	72	Kississippian Simpson Arbuckle	4,254 4,380 4,432
						Viola	4,250
Chance East (1952)	34-26-13₩	160	14,779	14,779	4	Mississippian	4,138
Chitwood (1943)	23-28-12W	1,700	506,371	6,932,232	7),	Viola LansK.C.	4,261
(3.3)	-,	-,,,,,,,	,000,512	0,772,272	14	Viola	
						Simpson	4,396
ma. 1						Arbuckle	
Chitwood Northeast (1950		40	622	3,678		Viola	4,330
Clares (1948) Coats (1944)	36-29-14 ₩ 24-29-14 ₩	100 400	18,310	148,646	4		4,472
(1944)	24-29-14	400	21,921	384,856 -	8	Simpson Arbuckle	4,402
Cunningham# (1931)	7-28-11W	3,500	138,227	4,501,282	76	LansK.C.	3,390
Frisbie (1943)	5-26-13W	400	18,933	322,803	Ĭ.		3,947
Frisbie Northeast (1948)	4-26-13W	80	14,527	135,792	6	LansK.C.	3,788
Iuka-Carmi (1937)	11-27-13W	7,600	1,250,142	12,417,840	183	LansK.C.	4,104
						Viola .	4,195
						Simpson	4,292
Jarboe (1952)	25-26-11₩	40	126	126	1	Arbuckle	4,354
Ludwick (1944)	4-29-13W	40	1,643	29,655	i	LansK.C. Simpson	3,834 4,490
Moore (1949)	1-26-14W	40	12,747	29.896	î		4,348
Shriver (1944)	33 - 29 -14₩	300	70,012	29,896 615,774	7	Simpson	և 557
Stark (1941)	18-26-11 W	600	10,303	841,814	6	LansK.C.	3,601
Storms (201.6)	7 00 70-	00	2 400	01 -1-	_	Viola	4,121
Stoops (1946) Stoops Southwest (1946)	7-29-12₩ 24-29-13₩	80	3,588	84,940	2	Viola	4,446
	24-29-13#	40	1,263	14,228	1	Viola	4,483
Total Pratt County		16,660	2,733,095	27,991,665	452		
		R	ENO COUNTY				
Abbyville (1927)	24-24-8w	1,100	33,410	831,133	16	LansK.C.	3,540
Albion (1948)	14-26-6W	100	2,137	23, 769	3	LansK.C.	3,342
• • • •	_• -		-,->1	-5,1-7	_	"Chat"	3,654
Albion North (1950)	14-26-6 ₩	40	no runs	767	1	Viola	3.997
Buhler (1938)	25 - 22 -5₩	1,000	117,192	860,714	13	Viola	3,890
Burrton* (1931)	3 03 1-	33 000	007 017	1 7 202 000		Simpson	3,897
Burroom (1931)	1-23-4₩	11,000	901,054	47,381,999	329	Mississippian	3,266
Haven (1951)	9-25-4 W	80	7,397	unty production	2	"Hunton" Simpson	3,583
Hilger (1934)	16-26-LW	900	96,212	7,397 4,640,731		Viola	3,977 4,062
Hilger (1934) Keddie (1952)	26-23-10W	,	no report	none	-,	LansK.C.	3,299
Lerado Southwest (19山)	21-26-9 W	40	3,991	126,590	1	Viola .	4,177
Morton (1942)	17-2կ-8₩	ГO	2,501		1	LansK.C.	
			ين و ع	40,199	_		3,180
Morton Southeast (1951)	16-24-8W	40	2, 980	4,727	ī	LansK.C.	3,423
Nicklaus (1952)	16-24-8₩ 3-26-4₩	40 40	2,980 1,010	4,727 1,010	ī	LansK.C. LansK.C.	3,423 3,249
Nicklaus (1952) Sanksy (1951)	16-24-8 w 3-26-4 w 22-22-10 w	140 140	2,980 1,010 10,364	4,727 1,010 15,426	1 2	LansK.C. LansK.C. LansK.C.	3,423 3,249 3,187
Nicklaus (1952)	16-24-8₩ 3-26-4₩	40 40	2,980 1,010 10,364 6,682	4,727 1,010 15,426 6,682	ī	LansK.C. LansK.C. LansK.C. Viola	3,423 3,249 3,187 3,548
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Toder (1935) Zenith-Peace Creek* (1943	16-24-8w 3-26-4w 22-22-10w 21-22-10w 24-24-5w 1)21-23-10w	70 80 70 70	2,980 1,010 10,364	4,727 1,010 15,426	1 2 1 3	LansK.C. LansK.C. LansK.C.	3,423 3,249 3,187 3,548 3,450
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Yoder (1935)	16-24-8w 3-26-4w 22-22-10w 21-22-10w 24-24-5w 1)21-23-10w	40 40 80 40 160	2,980 1,010 10,364 6,682 no runs	4,727 1,010 15,426 6,682 93,285	1 2 1 3	LansK.C. LansK.C. LansK.C. Viola "Chat"	3,423 3,249 3,187 3,548
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Toder (1935) Zenith-Peace Creek* (1943	16-24-8w 3-26-4w 22-22-10w 21-22-10w 24-24-5w 1)21-23-10w	40 40 80 40 160	2,980 1,010 10,364 6,682 no runs	4,727 1,010 15,426 6,682 93,285 17,619,008	1 2 1 3	LansK.C. LansK.C. LansK.C. Viola "Chat"	3,423 3,249 3,187 3,548 3,450
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Toder (1935) Zenith-Peace Creek* (1911) Pools or fields abandoned	16-24-8w 3-26-4w 22-22-10w 21-22-10w 24-24-5w 1)21-23-10w	140 140 80 140 160 10,000	2,980 1,010 10,364 6,682 no runs 288,432	4,727 1,010 15,426 6,682 93,285 17,619,008 2,590,055	1 2 1 3 136	LansK.C. LansK.C. LansK.C. Viola "Chat"	3,423 3,249 3,187 3,548 3,450
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Toder (1935) Zenith-Peace Creek* (194) Pools or fields abandoned Total Reno County Bingham (1952)	16-24-8w 3-26-4w 22-22-10w 21-22-10w 24-24-5w 1)21-23-10w	40 40 80 80 160 10,000 24,660	2,980 1,010 10,364 6,682 no runs 288,432 1,473,362	1,727 1,010 15,126 6,682 93,285 17,619,008 2,590,055 71,213,192	1 2 1 3 136 525	LansK.C. LansK.C. LansK.C. Viola "Chat"	3,423 3,249 3,187 3,548 3,450 3,773
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Toder (1935) Zenith-Peace Creek* (194: Pools or fields abandoned Total Reno County	16-24-8W 3-26-4W 22-22-10W 21-22-10W 24-24-5W 1)21-23-10W	160 10,000 24,660	2,980 1,010 10,364 6,682 no runs 288,432 1,473,362	4,727 1,010 15,426 6,682 93,285 17,619,008 2,590,055 74,243,492	1 1 3 1 3 6 5 2 5 5 1	LansK.C. LansK.C. LansK.C. Viola "Chat" Viola Simpson LansK.C.	3, 423 3, 249 3, 187 3, 548 3, 450 3, 773
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Yoder (1935) Zenith-Peace Creek* (19h Pools or fields abandoned Total Reno County Bingham (1952) Bloomer* (1936)	16-24-8w 3-26-1w 22-22-10w 21-22-10w 24-24-5w 1)21-23-10w 1 35-19-9w 36-17-11w	140 40 40 80 40 160 10,000 24,660	2,980 1,010 10,364 6,682 no runs 288,432 1,473,362 ICE COUNTY 4,971 867,040	1,727 1,010 15,126 6,682 93,285 17,619,008 2,590,055 74,243,492	1 2 1 3 136 525	LansK.C. LansK.C. LansK.C. Viola "Chat" Viola Simpson LansK.C. Arbuckle	3, 423 3, 249 3, 187 3, 548 3, 450 3, 773 3, 278 3, 044 3, 257
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Toder (1935) Zenith-Peace Creek* (194: Pools or fields abandoned Total Reno County Bingham (1952) Bloomer* (1936) Bornholdt* (1937)	16-24-8w 3-26-4w 22-22-10w 21-22-10w 24-24-5w 1)21-23-10w 1 35-19-9w 36-17-11w	160 160 160 10,000 24,660	2,980 1,010 10,364 6,682 no runs 288,432 1,473,362 ICE COUNTY 4,971 867,040	1,727 1,010 15,426 6,682 93,285 17,619,008 2,590,055 74,243,492	1 2 1 3 136 525	LansK.C. LansK.C. LansK.C. Viola "Chat" Viola Simpson LansK.C. Arbuckle "Chat"	3,423 3,249 3,187 3,548 3,450 3,773 3,278 3,278 3,278 3,257 3,292
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Yoder (1935) Zenith-Peace Creek* (194) Pools or fields abandone Total Reno County Bingham (1952) Bloomer* (1936) Bornholdt* (1937) Bownan North (1948)	16-24-8W 3-26-4W 22-22-10W 21-22-10W 24-24-5W 1)21-23-10W 1 35-19-9W 36-17-11W 30-20-5W 16-19-10W	140 140 140 160 10,000 24,660	2,980 1,010 10,364 6,682 no runs 288,432 1,473,362 IGE COUNTY 4,971 867,040	1,727 1,010 15,1,26 6,682 93,285 17,619,008 2,590,055 71,213,192 1,971 13,041,846 2,162,185 13,629	1 2 1 3 136 525	LansK.C. LansK.C. LansK.C. Viola "Chat" Viola Simpson LansK.C. Arbuckle "Chat" Arbuckle	3,423 3,249 3,187 3,548 3,450 3,773 3,278 3,278 3,292 3,231
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Yoder (1935) Zenith-Peace Creek* (19h Pools or fields abandoned Total Reno County Bingham (1952) Bloomer* (1936) Bornholdt* (1937) Bownan North (1948) Bredfeldt (1948)	16-24-8W 3-26-4W 22-22-10W 21-22-10W 24-24-5W 1)21-23-10W 1 35-19-9W 36-17-11W 30-20-5W 16-19-10W 7-18-9W	140 140 140 160 10,000 21,660 R: 1,500 1,400 10,000	2,980 1,010 10,364 6,682 no runs 288,432 1,473,362 ICE COUNTY 4,971 867,040 170,773 899 7,610	h,727 1,010 15,126 6,682 93,285 17,619,005 71,213,192 1,971 13,011,816 2,162,185 13,629 77,392	1 2 1 3 136 525	LansK.C. LansK.C. LansK.C. Viola "Chat" Viola Simpson LansK.C. Arbuckle "Chat" Arbuckle Arbuckle	3,423 3,249 3,187 3,450 3,773 3,278 3,044 3,257 3,257 3,257 3,257 3,257
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Yoder (1935) Zenith-Peace Creek* (194) Pools or fields abandone Total Reno County Bingham (1952) Bloomer* (1936) Bornholdt* (1937) Bownan North (1948)	16-24-8W 3-26-4W 22-22-10W 21-22-10W 24-24-5W 1)21-23-10W 1 35-19-9W 36-17-11W 30-20-5W 16-19-10W	140 140 140 160 10,000 24,660	2,980 1,010 10,364 6,682 no runs 288,432 1,473,362 ICE COUNTY 4,971 867,040 170,773 897 7,610 1,098	1,727 1,010 15,426 6,682 93,285 17,619,008 2,590,055 74,243,492 13,041,846 2,162,185 13,629 77,392 60,098	1 1 2 1 3 136 525	LansK.C. LansK.C. LansK.C. Viola "Chat" Viola "Chat" Viola Simpson LansK.C. Arbuckle "Chat" Arbuckle Arbuckle Arbuckle	3,423 3,249 3,548 3,450 3,773 3,278 3,278 3,278 3,292 3,331 3,260
Nicklaus (1952) Sankey (1951) Sankey Southwest (1952) Yoder (1935) Zenith-Peace Creek* (194: Pools or fields abandone: Total Reno County Bingham (1952) Bloomer* (1936) Bornholdt* (1937) Bownan North (1948) Bredfeldt (1948) Bredfeldt (1948) Bredfeldt West (1939)	16-24-8w 3-26-4w 22-22-10w 21-22-10w 24-24-5w 1)21-23-10w 35-19-9w 36-17-11w 30-20-5w 16-19-10w 7-18-9w 12-18-10w	1,500 1,400 1,400 1,500 1,400 1,400 1,200 1,000	2,980 1,010 10,364 6,682 no runs 288,432 1,473,362 ICE COUNTY 4,971 867,040 170,773 899 7,610	h,727 1,010 15,126 6,682 93,285 17,619,005 71,213,192 1,971 13,011,816 2,162,185 13,629 77,392	1 2 1 3 136 525	LansK.C. LansK.C. LansK.C. Viola "Chat" Viola Simpson LansK.C. Arbuckle "Chat" Arbuckle Arbuckle	3,423 3,249 3,187 3,450 3,773 3,278 3,044 3,257 3,257 3,257 3,257 3,257



TABLE 66 .- Oil production in Kansas during 1952, continued

	I ABLE 00.—C	ul production	ı in Kansas duri	ng 1952, continue	d		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952,bbls.	No. pro- ducing wells		Depth to pro- ducing zone, feet
Chase-Silica * (1931)	32-19-9₩	34,500	3,893,023	93,453,311	769	LansK.C. "Wilcox" Arbuckle	2,942 3,260 3,252
Click (revived) (1952)	3-18-7W	40	186	5,818	1	LansK.C.	3,050
Click Southeast (1947) Edwards* (1936)	11-18-7 7 3-18-8 7	80 600	11,453 75,824	27,519 177,712	2 7	LansK.C. Penn. congl. Arbuckle	3,065 3,214 3,278
Engelland (1949)	34-20-74	40	1,661	8,091	1	Conglomerate	3.348
Fair (1952)	15-21-10W	40	1,670	1,670	1	Penn. congl.	3, 358
Farmer (1952)	24-18-10W	240	25,374	25,374	6		3,222
Frederick (1951)	10-18-9 W	40	6,505	12,108		Penn. congl.	3,213
Galt (revived) (1952) Gemeinhardt (1948)	8-18-7 W 18-18-10 W	40 80	6,622 9,244	22,694 47,211	1 2		3,193 3,293
Geneseo (1934)	25-18-8 W	6,200	2,139,511	32,329,558		LansK.C. Penn. congl.	2,787 3,222
a. a			(202	02.2/0		Arbuckle	3,132
Glen Sharrald (1950) Heinz (1938)	20-18-10 W 8-18-10 W	120 300	6,393 24,231	23,160 277,992		LansK.C. LansK.C. Arbuckle	3,118 3,000 3,254
Ixl (1950)	4-19-10 W	640	45,634	53,944	8	LansK.C. Arbuckle	3,068 3,308
Ixl South (1951)	9-19-10W	Combi	ned with Ixl			AL DUCK ID	٠,,٠٠٠
Keller (1943)	3-19-9₩	40	1,699	42,375		Sooy	3,240
Lyons (1949)	14-20-8W	40	5,904	67,581	1	LansK.C.	3,226
						Arbuckle "Misener" Penn. congl.	3,277 3,315
Mary Ida* (1950)	31-18-10W	640	135,459	254,275	16	LansK.C.	3,033
	2		-22,427	->-,,>		Arbuckle	3,272
Munyon (1950)	34-18-10 W	120	13,929	28,097	3	Sooy	3,270
Marian Court (2072)	3 30 30	160	10 710	20, 221		Arbuckle	3,275
Munyon South (1951) Odessa (1949)	3-19-10 W 32-18-6 W	160 400	18,738 76,596	29,214 171,177		Arbuckle LansK.C.	3,300 3,092
Odessa South (1949)	9-19-6W	120	5,725	22,945		LansK.C.	3,069
Orth (1932)	27-18-10W	1,600	186,266	2,516,546		Shawnes LansK.C.	2,915
						Sooy	3,187
O-45 W-4 (2011)	22 20 20-	600	201 261	1.00 200	12	Pre-Cambrian	3,240
Orth West (1944)	21-18-10W	600	104,164	482,200	1/	Shawnee Arbuckle	2,688 3,235
Ponce (1936)	28-21-7₩	40	2,686	60,864	1	Sooy	3,388
Prosper (1948)	6-18-9₩	40	584	9,456		Arbuckle	3,232
Prosper East (1950)	5-18-9 w	200	42,165	117,236		Arbuckle	3,222
Raymond (1929)	21-20-107	2,800	270,067	13,324,967 41	78	Mabaunsee LansK.C.	2,285
						Arbuckle	3,130 3,330
Rick* (1936)	1-19-11\	40	2,778	51,910	1	LansK.C. Arbuckle	3,106 3,355
Rick Southeast (1947)	18-19-10W	100	9,521	67,077	3	LansK.C. Arbuckle	3,026 3,334
Rickard (1935)	22-18-9W	200	6,523	188,752		Arbuckle	3, 324
Ringwald (1949)	32-18-10W	500	97,854	315,762	13	LansK.C.	2,947
Schulz (1952)	15-18-10W		no report	none		Pre-Cambrian Arbuckle	3,072
Silica South* (1935)	24-20-11W	500	133,670	1,118,723	18	LansK.C.	3,500 3,035
	L4 L3-11	-			10	Arbuckle	3,268
Smyres (1942) Sterling (1951)	36-19-6 w 4-22-8 w	1,600 40	366,470 309	2,447,643 759	50 1	"Chat"	3, 339
Union East (1950)	27-20-8W	280	22,730	40,317	7	Scoy congl.	3,305
Volkland (1943)	27-18-9 W	400	43,649	638,842	7	Arbuckle	3,221
Welch (1924)	35-20-6₩ 1-21 -6₩	2,900 80	361,946	6,248,595	87 2	"Chat"	3,370
Welch East (1941)	T-57-0#	60	2,354	35,215	2	"Chat"	3,341

Welch North (1937)	23-20-6W	80	3,1,69	101,677	2	"Chat"	3,334
Welch West (1948)	6-21- 6	280	27,393	92,888	7	"Miss. lime"	3,498
Wherry (1933)	11-21-7W	7,100	176,238	11,172,087	67	Sooy	3, 358
Wherry North (1947)	35-20-7W	1,000	90,700	440,018	16	Sooy	3,423
Zink* (1950)	13-18-11W	120	13,813	14,970	3	Arbuckle	3,284
Pools or fields abandone	d		-, -	284,228			•
Total Rice County		68, 360	9,566,545	182,288,202	1 577		
Total Rice County		00,500	9,900,949	102,200,202	19511		
		RO	OKS COUNTY				
				_			
Amboy (1950)	16-10-20W	120	13,256	53,979		Arbuckle	3,813
Annon (1951)	27 -10-20W	80	19,568	31,688	.2		3,711
Barry (1942)	11-9-19 W	1,840	721,874	6,051,216	69	LansK.C.	
						Arbuckle	3,435
Barry East (1947)	6 − 9−18 ₩	400	83,788	482,316	10	LansK.C.	3,280
•						Arbuckle	3,489
Barry Southeast (1946)	13-9-19 w	680	161,314	1,324,325	25	Arbuckle	3,479
Bartos (1952)	15-9-197		no report	none		Arbuckle	3,544
Bassett (1951)	20-10-20W	40	397	1,982	1	Arbuckle	3,749
Bassett Southwest (1952)			no report	none		Arbuckle	3, 679
Baum (1942)	10-10-16 W	40	1,620	19,148	1	LansK.C.	3,057
Baumgarten (1950)	25 -9-19W	240	33,638	80,765	6	Arbuckle	3,621
Baumgarten Northeast (195	(2) 30 - 9-18 W		no report	none		Arbuckle	3,608
Belmont (1949)	28-7-19W	40	1,855	9,301	1	LansK.C.	3,337
Berland North (1950)	31-9-19	Chang	ed to Marcott	e North			
Berland South (1951)	31-10-19W	40	4,953	16,854	1	LansK.C.	3,480
Berland Southwest (1949)	26-10-20W	440	53,919	184,813		Arbuckle	3,728
Brungardt* (1952)	35-10-17W	120	13,285	13,285		LansK.C.	3,194
Burnett# (1937)	1-11-18W	640	138,975	1,174,290		LansK.C.	3,093
- (, , , , ,		•		_, , .		Arbuckle	3,570
Burnett Northwest* (1946	3-11-18¥	570	42,718	329,540	6	LansK.C.	3,450
	, , == ===		,	3-7,734-	•	Arbuckle	3,617
Chandler (1948)	14-9-19W	Combi	ned with Jeli	nek		•	-,
Chandler West (1951)	15-9-19	40	3,182	3,182	1	"Dodge"	3,248
0.12.0201 11000 (2),527	-, , -, -	40	2,242	2,200	-	(Shawnee)	,,
Dancer (1952)	4-8-17₩	μo	4,675	4,675	1	LansK.C.	3,140
Dopita (1934)	31-8-17W	700	76,651	872, 389		LansK.C.	3,212
207200 (1),247)1-0-1 W	100	10,072	012,007	~	Arbuckle	3,409
Dopita East (1952)	29-8-17W	40	2,541	2,541	1	LansK.C.	3,304
Dorr (1942)	20-9-16W	640	65, 184	688,617		LansK.C.	3, 230
Eagle Creek (1949)	2-10-20W		ned with Marc		-1	Terra F - C -	3,230
Elm Creek (1951)	19-8-17	320	35,133	37,829	7	Arbuckle	3,400
Elm Creek West (1952)	24-8-18 W		ned with Elm		,	VI-DICKTO	5,400
Erway (1941)		200			5	Zana F.C	3,136
	2-10-16 W		17,624 مالية	92,253	2	LansK.C.	
Fehnel (1952)	16-10-19W	80 80	5,145 5,146	5,145		LansK.C.	3,480
Finnesy (1947)	14-10-18w		25,440	22,829		LansK.C.	3,419
Gick (1947)	30-9-19W	200	30,630	122,980	5	Arbuckle	3,578
Gra-Rook (1948)	30 -9-20W	800	304,167	597,732	21	Penn. congl.	3,810
(2070)		1.00	10 722	60 377		Arbuckle	3,869
Grover (1950)	22-7-19 W	400	40,731	60,157	y	LansK.C.	3,272
(2010)		2/2	20/ 202	21 0 2 22		Arbuckle	3,408
Hayden (1949)	31-8-19 W	360	106,383	349,131	. 13	LansK.C.	3,289
anne i i de ada)			1 -41	1 - 41	_	Arbuckle	3,513
Hillside (1952)	12-8-20W	40	4,164	4,164		Shawnee	3,206
Jelinek (1947)	23 -9-19 ₩	1,500	594,741	2,217,539	67	Shawnee	3,220
T (20/0)		000	ره مور	112 //2	5	Arbuckle	3,537
Kern (1950)	28-9-20W	200	59,084	143,660		Arbuckle	3,855
Krueger# (1948)	35-10-16 W	300	73,796	272,173	10	LansK.C.	3,552
Y (3051)	2 20 2/=	1.0	6 361	1 444		Arbuckle	2 001
Kruse (1951)	3-10-16W	40	2,194	4,529		LansK.C.	3,094
Laton (1927)	11-9-16	4,100	174,897	4,111,476		LansK.C.	3,228
Laura# (1950)	30-10-20W	10	5,918	16,504		Arbuckle	3,706
Laura Southeast (1952)	30-10-20W	120	4,830	4,830		Arbuckle	3,667
Locust Grove (1949)	8-7-19₩	40	3,514	16,069		Arbuckle	3,450
Locust Grove Southeast	9-7-19 W	40	1,666	4,525	. 1	Arbuckle	3,400
(1951) Tono Ston (1968)	1. 0 1	400	1.0 341	41 91 4		Amburalo? -	2 300
Lone Star (1948) Lone Star Southwest (195	4-8-17W	600	42, 364	64, 146	9	Arbuokle	3,382
Tons Seat Sofferman (TA)	T) 0-0-TIM	80	5,387	10,049	2	Arbuckle	3,299
			•				

	I ABUS OF O			ng 1952, contine			
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells		Depth to pro- ducing zone, feet
Lynd (1951)	32-9-197	320	80,211	111,260	8	Arbuckle	3,750
Lynd Southwest (1952)	5-10-19	40	1,473	1,1,73		Arbuckle	3,759
McClellan (1945)	9-9-19W	40	5,111	56,097		LansK.C.	3,343
McHale (1948)	8-2-16w	400	57,343	299,346		LansK.C.	3,43É
(-,,	. ,	-	, , ,			Arbuckle	3,494
McHale South (1949)	17-9-18W		no report	4,663		Arbuckle	3,615
McMullen (1952)	33-8-17W		no report	none		Arbuckle	باجبار3
Marc (1948)	18 - 9-19 7	80	1,398	11,916		LansK.C.	3,370
Marcotte (1943)	15-10-20W	5,800	1,919,317	5,900,926	214	LansK.C.	3,596
		- /-	0-(J. 1		Arbuckle	3,752
Marcotte North (1950)	31 -9- 19 W	160	23,806	50,619		Arbuckle	3,770
Marcotte Northwest (1950)	9-10-207	40	8,766	23,568		Arbuckle	3,722
Marcotte South (1951)	22-10-20W	40 80	10,240	18,169		Arbuckle Arbuckle	3,719
Marcotte Southwest (1951) Mayhew (1951)	21-10-20W 24-9-19W	80	12,072 9,781	12,072 9,781		Arbuckle	3,743 3,613
Medicine Creek (1952)	18-8-16W	120	7,735	7,735		LansK.C.	3,054
Mt. Ayr (1952)	13-10-18.W	40	2,077	2,077		LansK.C.	3,554
Nettie (1946)	34-9-177	800	196,191	370,697		LansK.C.	3, 243
(2),407	24 / -1	-	-,-,-,-	21-3-21		Simpson	3.499
						Arbuckle	3,513
Northampton (1948)	26-9-20W	940	418,254	1,945,089	34	Arbuckle	3,803
Nyra (1946)	16-9-17 W	300	19,778	147,209	9	LansK.C.	3,429
			-			Arbuckle	3,501
Palco (1943)	5-10-201	1,020	312,824	1,482,604		Arbuckle	3,824
Palco Southeast (1949)	3-10-20W	60 0	106,708	297,298	12	LansK.C.	3,728
D 2		2/0	22.01.6	2/ 20/		Arbuckle	3,827
Palco Southwest (1951)	7-10-20W	160	33,246	36,796	4	Arbuckle	3,858
Palco Townsite (1945) Paradise Creek (1947)	20-9-20W 21-9-18W	80	5,725 251,845	24,654		Arbuckle Arbuckle	3,847 3,576
Plainville (1948)	31-9-10W	1,100 80	5,054	1,718,667 16,166		LansK.C.	3,477
114111111111111111111111111111111111111	J1-7-11#	00	7,00,04	10,100	2	Arbuckle	3,613
Ray Southeast (1942)	9-6-20₩	40	3,779	75,910	1	Reagan	3,600
Riffe (1951)	4-7-19W	80	7.11111	12,970		LansK.C.	3,230
Slate (1951)	31-6-19W	120	5,746	5,746		LansK.C.	3,291
, , ,			-, -		-	Arbuckle	3,545
Stamper (1950)	28 - 8-17₩		no report	910		Marmaton	3, 394
Stockton (1937)	35-7-17₩	300	11,675	121,999	6	Shawnee	2,692
		_	-			LansK.C.	3,180
Sweet (1951)	18-8-18 w	40	2,167	4,738		Ar buckle	3,423
Vohs (1945)	14-10-19W	900	273,237	1, 565,449	21	LansK.C.	3,365
Vohs Northwest (1947)	9-10-19 W	80	4,991	76,980	2	LansK.C.	3 , 141,6
Vohs South (1947) Webster (1946)	23-10-19 W 27-8-19 W	40 1,800	no runs 249,432	12,524 2,045,913	4	LansK.C.	3,303
Westhusin (1936)	11-9-17W	1,600	177,186	1,948,238		Arbuckle LansK.C.	3,403
Westing (1950)	11-)-11W	1,000	177,100	1,940,230	41	Arbuckle	3,231
Whisman (1950)	9-9-20W		no report	none		LansK.C.	3,408 3,427
Yohe (1949)	4-9-18W	80	6,136	32,786	2	LansK.C.	3,266
Zurich (1935)	26-10-19W	700	35,850	319,040		Shawnee	3,057
•						LansK.C.	3,340
Zurich Southwest (1952)	34-10-19₩	ЙO	494	494	1	LansK.C.	3,385
Zurich Townsite (1944)	27-9-19 W	360	58,830	346,483	8	Ar buckle	3,647
Pools or fields abandoned				155,44,7			•
Total Rooks County		460بلا	7,287,132	38,783,135	1,032		•
		R	USH COUNTY				
Big Timber (1952)	5-16-18W	70	452	452	1	Arbuckle	3,613
	6-16-17W	40	1,006	2,429		LansK.C.	3,344
Hindly Hollow (1991)							
Hungry Hollow (1951) Otis-Alberts (1934)	10-18-16	2,200	86,137	#730,872 با		Beagan	3.527
Rungry Hollow (1951) Otis-Albert# (1934) Rush Center (1947) Ryan# (1945)			86,137 2,157 174,274		• 35 1		3,527 3,836 3,656



Stegman (1952) Timken (1952) Weitzel (1947) Pools or fields abandoned Total Rush County	11-16-17 W 28-16-17 W 1-16-20 W	40 40 40 40 40	196 1,049 2,229 267,500	196 1,049 36,080 59,942 6,450,621		LansK.C. Arbuckle Gorham	3,376 3,729 3,674
		RUS	SELL COUNTY				
Atherton (1935) Atherton North (1945) Beisel (1944) Boxberger (1935) Claussen (1944) Claussen West (1949) Coal Creek (1951)	30-13-11-W 7-13-11-W 15-11-12-W 36-15-15-W 27-12-11-W 22-12-11-W 29-12-11-W 22-15-11-W	2,100 40 160 200 40	197,377 6,436 no report 4,747 14,125 1,328 no report no report	2,817,579 66,766 18,617 227,929 41,300 9,730 1,217 none	3 4	Arbuckle Arbuckle Arbuckle LansK.C. LansK.C. LansK.C. Penn. congl.	3,284 3,195 3,266 3,147 2,855 2,956 2,841 3,178
Cook (1950)	26-13-19W	200	15,957	55 , 369	5	LansK.C. Arbuckle	3,051 3,314
Davidson* (1930)	4-16-11 W	160	11,490	0بلنا, 197	4	LansK.C. Sooy Arbuckle	3,016 3,317 3,314
Dillner Northwest (1947) Donovan (1935) Dubuque (1935)	27-13-15 W 10-15-15 W 34-15-12 W	40 120 7 50	no runs 8,827 101,010	9,640 220,173 956,301	3	Arbuckle LansK.C. LansK.C. Arbuckle	3,318 3,193 3,275 3,330
Ehrlich (1951) Ely (1949)	7-14-13W 15-15-13W		ned with Hall- ned with Trap				• • •
Eulert (1919) Fairport* (1923)	35-11-15 W 8-12-15 W	4,000	179,663 ··· 590,196	542,673 21,350,827	17 157	Arbuckle LansK.C. Sooy Gorham Arbuckle Simpson Reagan	3,316 2,950 3,137 3,211 3,312 3,316 3,350
Fay (1952) Corhan (1926)	2-12-15 W 32-13-15W	40 16,200	1,643 1,981,997	1,643 53,981,102		Arbuckle Shawnee LansK.C. Gorham Arbuckle Reagan	3,238 2,765 2,908 3,152 3,289 3,299
Hall-Gurney*(1931)	30-1½-13₩	27,000	3,952,216	54,822,2 5 9	1,041		1,985 2,400 2,675 2,813 2,985 3,165 3,192 3,156
Homer (1949) Homer Southeast (1949)	17-14-13 W 16-14-13 W		ned with Hall- ned with Hall-				
Janne (1943)	24-15-12W	300	17,245	206,891	5	LansK.C. Arbuckle	3,319
Je rry (1942)	4-12-14₩	40	2,730	58,387	1	Wabaunsee LansK.C. Arbuckle	2,985
Kaufman* (1947) Meier (1948) Ney (1948)	33-15-12W 30-15-12W 31-15-12W	կ0 60 2կ0	5,989 21,605 30,701	59,045 116,861 173,853	1 3 5	Arbuckle Arbuckle	3,311 3,325 3,240 3,350
Parker (1948)	18-15-12W	340	35,342	234,898	7		2,957 3,259
Russell (1934)	22-13-1LW	2,720	471,622	9,717,299	94	LansK.C. Arbuckle	3,195 3,280
Russell East (1949) Strecker (1943)	25-13-14 w 21-15-14 w	100 120	600 2,536	26,407 49,284		Arbuckle Arbuckle	3,273 3,342



	Table 66.—0	il productio	n in Kansas duri	ng 1952, continu	ed	_	
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 production, bbls.	Cumulative production to end of 1952, bbls.	duci ng		Depth to pro- ducing zone, feet
Trapp* (1936)	23-15-14 W	23,000	3,971,031	87,978,278	860	Tarkio Shawnee Dodge LansK.C. Arbuckle	2,350 2,859 2,966 3,062 3,252
Trapp East (1949)	14-15-13 W	80	8,911	39,270	2	LansK.C. Arbuckle	3,146 3,277
Pools or fields abandoned	l			352,292			• • • • • • • • • • • • • • • • • • • •
Total Russell County		78,630	11,635,324	234,333,330	2,750		
		S	ALINE COUNTY				
Bachofer (1951) Gypsum Creek North (1952) Holm (1951) Holm North (1952)	-15-15-2W 33-16-1W 32-16-3W 20-16-3W	160 500 160 600	11,660 12,032 29,773 9,170	16,765 12,032 34,222 9,170	6 5	Wississippian Wisssissippian Viola Viola	
Holm Southeast (1952) Hunter (1943)	32-16-3 W 20-16-1 W	80 880	3,494 39,660	3,494 1,048,399	2 20	Viola "Chat"	3,388 2,681
Hunter North (1948) Mentor (1944) Olsson (1929)	8-16-1W 13-15-3W 10-16-3W	320 120 1,080	41,775 4,471 61,073	140,583 25,648 424,692	3 18	"Miss. lime" Viola Viola	2,674 3,258 3,303
Salemsborg (1952) Salina (1943) Salina South (1946)	5-16-3W 30-14-2W 32-14-2W	1,700 300	2,651 80,720 18,656	2,651 838,324 141,439	28 7	Viola Viola Viola	3,381 3,223 3,246
Smolen (1950) Swenson (1950) Pools or fields abandoned	19-15-3W 34-15-3W	3,200	754,036 2,351	1,096,768 8,920 11,285		Viola Viola	3,386 3,353
Total Saline County		9,180	1,071,522	3,814,392	203		
		S	COTT COUNTY				
Keystone (1950) Shallow Water (1935)	25-18-32W 15-20-33W	120 900	43,519 28,076	60,586 1,821,855		LansK.C. Marmaton "Miss. lime" Ste. Genevieve	4,001 4,286 4,660 4,670
Total Scott County		1,020	71,595	1,882,441	11		•
		SE	DOWICK COUNTY				
Bartholomew* (1948) Butwick* (1949)	30 – 27 – ↓₩ 7–26–3 B	1,800 40	462,222 1,939	1,380,985 1,939		"Miss. lime" Mississippian	3,732 2,860
Butwick* (1949) Chambers (1948)	10-29-2W	120	10,616	42,591	3	"Miss. lime"	3,540
Clearwater (1944) Crestview (1952)	22-29-2 W 1-27-1B	200	11,145 no report	106,077 none	>	LansK.C. "Burgess"	2,913 2,982
Cross (1929)	27-25-1W	40	4,780	82,256	1	LansK.C.	2,690
Curry (1947)	11-27-1	1110	79,382	401,555		LansK.C. Simpson	2,715 3,400
Eastborough (1929)	19 – 27–2 E	870	59,149	8,879,707	25	"Chat" Viola	2,956 3,238
Eastborough North (revive	d) 8-27-2E	80	5,939	10,339	1	Arbuckle	3,376
Fairview (1948)	8-26-2E	600	56 , 693	248,616	9	LansK.C. "Burgess" Mississippian	2,500 2,960 2,991
Fairview North (1948)	5-26-2 B	120	13,481	96,683	3	"Burgess"	2,971
Fairview South (1950)	17-26-2B	40	2,258	9,380	1	"Burgess"	2,945
Gehring-Rick (1952)	16-28-2B	80	1,505	1,505		Mississippian	

			•				
Goodrich (1928)	16-25-1E	780	74,378	4,647,607	25	LansK.C. "Chat" Kinderhookian	2,614 3,010 3,334
Greenwich (1929)	14-26-2 E	700	136,531	11,428,459	25	Arbuckle "Chat"	3,339 2,885
Hinkle (1946)	1-27-1E		no report	10,153		Viola "Burg ess"	3,321 2,980
Hohm (1945)	22-27-17	160	14,005	97,013	4	LansK.C.	2,779
Kuske North (1951)	13-25-1E	200	15,754	19,567	5		3,016
Luening (1951) Minneha (1951)	33-26-2E 11-27-2E	80 40	3,968 3,716	5,547 8,1419		Simpson Arbuckle	3,338 3,247
Minneha Northwest (1951)	10-27-2E	•	no report	2,798	•	Simpson	3,300
Petrie (1945)	36-26-1W	80	12,557	92,190	1	Viola	3,387
Petrie Northwest (1951) Prairie Creek (1952)	35-26-1 W 25-25-25	40 40	17,033 176	20,882 176		Viola Mississippian	3,445 2,812
Robbins (1929)	20-28-1E	900	91,356	3,932,509**	47	"Miss. lime"	3,090
Schulte (1947)	7-28-17	200	8,643	190,573	3	M issi ssi ppi an	3, 3l ₁ 9
Valley Center (1928)	1-26-1W	1,800	66,749	21,963,695	31.	Simpson	3,658
1120, 0011001 (2)20,	1-20-11	1,000	00,147	21,707,077	74	LansK.C. Kinderhookian	2,860 3,380
	/		a			Viola	3,366
White Cotton (1948) Pools or fields abandon	30-26-2E	700	84,698	413,937	17	"Burgess"	2,957
Total Sedgwick Coun		10,230	1,238,673	216,1421 54,311,609	297		
		10,270	1,270,077				
		SE	WARD COUNTY				
Kismet (1948)	23-33-317		no runs	16,103		Marmaton	5,095
Kismet South (1952)	26-33-317	40	7,041	7,041	1	Mississippian	5,770
Kneeland (1951)	23-34-31 W	40	1,930	3,041		Marmaton	5,332
Liberal-Light (1951) Liberal Southeast (1947)	11-35-32 W 15-35-33 W	240 120	45,371 7,120	62,975 61,807	ر 3	Morrowan Penn.sandstone	6,005 6,202
Liberal-White (1952)	35-34-32W	40	394	394		Morrowan	5,906
Light (1951)	11 - 35-32 7	Chang	ed to Liberal	74			
					_		
Total Seward County		480	61,856	151,361	9		
		480			9	- 	
Total Seward County	· · · · · · · · · · · · · · · · · · ·	480 SHE	61,856	151,361		Tang X C	3 755
Total Seward County Adell (1944)	11-6-27W	1,200	61,856 RIDAN COUNTY 362,519	2,665,433	æ	LansK.C.	3,755 4,023
Adell (1944) George (1952) Moss (1952)	11-6-27\\ 17-9-26\\ 2-8-30\\	1,200 40 40	61,856 RIDAN COUNTY 362,519 6,304 339	2,665,433 6,304 339	& 1 1	Lans.—K.C. Lans.—K.C.	4,023 4,033
Total Seward County Adell (1944) George (1952) Moss (1952) Studley (1943)	11-6-27\\ 17-9-26\\ 2-8-30\\ 23-8-26\\	1,200 40 40 340	61,856 RIDAN COUNTY 362,519 6,304 339 20,748	2,665,433 6,304 339 379,653	Æ 1 1 6	LansK.C. LansK.C. LansK.C.	4,023 4,033 3,810
Adell (1944) George (1952) Moss (1952) Studley (1943) Studley Southwest (1945)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W	1,200 40 40 40 340 40	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443	2,665,433 6,304 - 339 379,653 43,083	,e 1 6 1	Lans.—K.C. Lans.—K.C.	4,023 4,033
Total Seward County Adell (1944) George (1952) Moss (1952) Studley (1943)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W	1,200 40 40 40 40 1,660	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353	2,665,433 6,304 339 379,653	Æ 1 1 6	LansK.C. LansK.C. LansK.C.	4,023 4,033 3,810
Adell (1944) George (1952) Moss (1952) Studley (1943) Studley Southwest (1945)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W	1,200 40 40 40 40 1,660	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443	2,665,433 6,304 - 339 379,653 43,083	,e 1 6 1	LansK.C. LansK.C. LansK.C.	4,023 4,033 3,810
Adell (1944) George (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty	1,200 ho ho ho 340 ho 1,660	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353 FFORD COUNTY 2,528	2,665,433 6,304 339 379,653 43,083 3,094,812	2 1 1 6 1 47	LansK.C. LansK.C. LansK.C.	4,023 4,033 3,810 3,758
Adell (19hh) George (1952) Moss (1952) Studley (19h3) Studley Southwest (19h5) Total Sheridan Coun Ahnert (19h1) Bart-Staff* (1951)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 4-21-14W	1,200 ho ho ho ho 1,660	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353 FFORD COUNTY 2,528 48,283	2,665, \(\begin{align*} 2,665, \(\beta\) 304 \(\cdots\) 339 \(\delta\) 379,653 \(\delta\) 43,083 \(\delta\) 3,09\(\delta\) 812 45,657 \(\tag{73,318}\)	2 1 6 1 47	LansK.C. LansK.C. LansK.C. LansK.C.	4,023 4,033 3,810 3,758
Adell (1944) George (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bayer (1951)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty	1,200 ho ho ho 340 ho 1,660	61,856 RIDAN COUNTY 362,519 6,304 6,304 4,443 394,353 FFORD COUNTY 2,528 48,283 no report	2,665,433 6,304 · 339 379,653 43,083 3,094,812	1 1 6 1 1 47	LansK.C. LansK.C. LansK.C.	4,023 4,033 3,810 3,758 3,784 3,572 3,543
Adell (1944) George (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bayer (1951) Bedford (1940) Brock (1944)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 1-21-11W 16-21-11W 21-23-12W 12-23-12W	1,200 40 10 1,660 STA	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 61,266 17,249	2,665,433 6,304 3,309 379,653 43,083 3,094,812	1 1 6 1 1 3 16 10	LansK.C. LansK.C. LansK.C. Arbuckle Arbuckle Arbuckle Arbuckle	4,023 4,033 3,810 3,758 3,758 3,572 3,543 3,543 3,680
Adell (1944) George (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Beyer (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 4-21-14W 16-21-14W 21-23-12W 2-22-13W 2-22-13W	1,200 ho	61,856 RIDAN COUNTY 362,519 6,304 6,304 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276	2,665,433 6,304 3,309 379,653 43,083 3,094,812	1 1 6 1 1 7 1 3 16 10 2	LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle Arbuckle Arbuckle Arbuckle	3,758 3,758 3,758 3,758 3,758 3,572 3,543 3,859 3,652
Adell (1944) George (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bert-Staff* (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952) Byron (1951)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 16-21-11W 21-23-12W 12-23-12W 2-22-13W 9-21-12W	1,200 ho	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275	2,665,433 6,304 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472	1 1 6 1 1 3 16 10 2 2	LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle Arbuckle Arbuckle Arbuckle Arbuckle	4,023 4,033 3,810 3,758 3,758 3,572 3,572 3,543 3,659 3,652 3,459
Adell (1944) George (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952) Byron (1951) Byron Southeast (1951) Chase-Silica* (1931)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W 4-21-1/1W 16-21-1/1W 21-23-12W 12-23-12W 2-22-13W 9-21-12W 32-19-9W	1,200 ho	61,856 RIDAN COUNTY 362,519 6,304 6,304 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 44,582	151,361 2,665,433 6,304 . 339 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092	1 1 6 1 1 3 16 10 2 2 4 9	LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle Arbuckle Arbuckle Arbuckle Arbuckle Arbuckle Arbuckle Arbuckle	4,023 4,033 3,810 3,758 3,758 3,572 3,572 3,543 3,650 3,652 3,459 3,500 3,383
Adell (1944) George (1952) Moss (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bayer (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952) Byron (1951) Byron Southeast (1951) Chase-Silica* (1931) Cochlin (1951)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 16-21-11/W 21-23-12W 12-23-12W 12-23-12W 10-21-12/W 10-21-12/W 132-19-9W 19-22-11W	1,200 40 10 340 40 120 900 640 80 80 160 400 80 80 80 80 80 80 80 80 80 80 80 80 8	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 14,582 10,416	2,665,433 6,304 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092 13,363	1 1 6 1 47 1 3 16 10 2 2 4 9 2 2	LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle	4,023 4,033 3,810 3,758 3,758 3,572 3,572 3,543 3,652 3,652 3,652 3,652 3,652 3,652 3,652 3,652
Adell (1944) George (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952) Byron (1951) Byron Southeast (1951) Chase-Silica* (1931)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W 4-21-1/1W 16-21-1/1W 21-23-12W 12-23-12W 2-22-13W 9-21-12W 32-19-9W	1,200 ho	61,856 RIDAN COUNTY 362,519 6,304 6,304 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 44,582	151,361 2,665,433 6,304 . 339 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092	1 1 6 1 47 1 3 16 10 2 2 4 9 2 2	LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle	1,023 1,033 3,810 3,758 3,758 3,758 3,572 3,5859 3,680 3,659 3,500 3,383 3,664
Adell (1944) George (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bayer (1951) Bedford (1940) Brouse (1944) Brunselmeyer (1952) Byron Southeast (1951) Chase-Silica* (1931) Cochlin (1951) Crissman (1952)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 4-21-11W 16-21-11W 21-23-12W 2-22-13W 9-21-12W 10-21-12W 132-19-9W 19-22-11W 16-23-11W	1,200 40 10 340 40 120 900 640 80 80 160 400 80 80 80 80 80 80 80 80 80 80 80 80 8	61,856 RIDAN COUNTY 362,519 6,304 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 144,582 10,416 24,803	2,665,433 6,304 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092 13,363	1 1 6 1 47 1 3 16 10 2 2 4 9 2 2	LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle	4,023 4,033 3,810 3,758 3,784 3,543 3,543 3,652 3,652 3,652 3,664 3,985 9,3664 3,985 9,986
Adell (1944) George (1952) Moss (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bert-Staff* (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952) Byron (1951) Byron Southeast (1951) Chase-Silica* (1931) Cochlin (1951) Crissman (1952) Crissman North (1952)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 16-21-11W 21-23-12W 12-23-12W 2-22-13W 9-21-12-12-12-12-12-12-12-12-12-12-12-12-	1,200 ho	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 44,582 10,416 24,803	2,665,433 6,304 379,653 42,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092 13,363 24,803	1 1 6 1 1 3 16 10 2 2 4 4 9 2 2 6	LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle LansK.C. Simpson Arbuckle LansK.C.	4,023 4,033 3,810 3,758 3,758 3,784 3,572 3,859 3,680 2,655 3,500 3,3659 3,664 4,006 3,669
Adell (1944) George (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bayer (1951) Bedford (1940) Brouse (1944) Brunselmeyer (1952) Byron Southeast (1951) Chase-Silica* (1931) Cochlin (1951) Crissman (1952)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 4-21-11W 16-21-11W 21-23-12W 2-22-13W 9-21-12W 10-21-12W 132-19-9W 19-22-11W 16-23-11W	1,200 40 10 340 40 120 900 640 80 80 160 400 80 80 80 80 80 80 80 80 80 80 80 80 8	61,856 RIDAN COUNTY 362,519 6,304 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 144,582 10,416 24,803	2,665,433 6,304 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092 13,363 24,803	1 1 6 1 1 3 16 10 2 2 4 4 9 2 2 6	LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle LansK.C. Simpson Arbuckle LansK.C. LansK.C. LansK.C.	1,023 1,033 3,810 3,758 3,758 3,572 3,543 3,572 3,543 3,659 3,659 3,659 3,669 3,669 3,669 3,669 3,669 3,669
Adell (1944) George (1952) Moss (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bayer (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952) Byron (1951) Byron Southeast (1931) Cochlin (1951) Crissman (1952) Crissman North (1952) Curtis (1942) Curtis South (1951)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 16-21-11W 21-23-12W 12-23-12W 12-23-12W 10-21-12W 32-19-9W 19-22-11W 16-23-11W 6-22-13W 12-23-11W 16-23-11W	1,200 40 40 1,660 STA 40 120 900 640 80 80 160 80 240 500 40	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 44,582 10,416 24,803	2,665,433 6,304 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092 13,363 24,803	1 1 1 3 3 16 100 2 2 4 4 9 2 2 6 6 11 1	LansK.C. LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle LansK.C. Simpson Arbuckle LansK.C. LansK.C. Arbuckle Arbuckle Arbuckle	1,023 1,033 1,030 3,758 3,758 3,754 3,572 3,572 3,652 3,652 3,659 3,669 1,006 3,669 1,006 3,669 1,006 3,669 1,006
Adell (1944) George (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952) Byron (1951) Byron Southeast (1951) Chase-Silica* (1931) Cochlin (1952) Crissman North (1952) Curtis (1942)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W 32-8-26W ty 26-22-13W 4-21-11W 21-23-12W 21-23-12W 2-22-13W 9-21-12W 32-19-9W 19-22-11W 16-23-11W 9-23-11W 6-22-13W	1,200 ho	61,856 RIDAN COUNTY 362,519 6,304 6,304 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 144,582 10,416 24,803	2,665,433 6,304 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092 17,363 24,803	1 1 1 3 3 16 100 2 2 4 4 9 2 2 6 6 11 1	LansK.C. LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle LansK.C. Simpson Arbuckle LansK.C. LansK.C. Arbuckle LansK.C.	4,023 4,033 3,810 3,758 3,758 3,758 3,759 3,572 3,859 3,669 3,669 3,669 3,669 3,669 3,669 3,669 3,570
Adell (1944) George (1952) Moss (1952) Moss (1952) Moss (1952) Studley (1943) Studley Southwest (1945) Total Sheridan Coun Ahnert (1941) Bart-Staff* (1951) Bayer (1951) Bedford (1940) Brock (1944) Brunselmeyer (1952) Byron (1951) Byron Southeast (1931) Cochlin (1951) Crissman (1952) Crissman North (1952) Curtis (1942) Curtis South (1951)	11-6-27W 17-9-26W 2-8-30W 23-8-26W 32-8-26W ty 26-22-13W 16-21-11W 21-23-12W 12-23-12W 12-23-12W 10-21-12W 32-19-9W 19-22-11W 16-23-11W 6-22-13W 12-23-11W 16-23-11W	1,200 40 40 1,660 STA 40 120 900 640 80 80 160 80 240 500 40	61,856 RIDAN COUNTY 362,519 6,304 339 20,748 4,443 394,353 FFORD COUNTY 2,528 48,283 no report 64,266 17,249 5,276 8,275 17,636 44,582 10,416 24,803	2,665,433 6,304 379,653 43,083 3,094,812 45,657 73,318 1,505 1,555,051 347,528 5,276 17,472 20,390 175,092 13,363 24,803	1 1 1 1 1 1 1 5 1 1 1 1 5 1 1 1 1 1 1 1	LansK.C. LansK.C. LansK.C. LansK.C. LansK.C. Arbuckle LansK.C. Simpson Arbuckle LansK.C. LansK.C. Arbuckle Arbuckle Arbuckle	4,023 4,033 3,810 3,758 3,784 3,574 3,574 3,574 3,578 3,659 3,659 3,659 3,669 3,669 3,669 3,669 3,751



	TABLE 66.—0	il production	in Kansas duris	ug 1952, continue	rd		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells		Depth to pro- ducing some, feet
Dell East (1951) Dell Northeast (1951) Drach (1937) Drach Northwest (1944)	5-21-13W 5-21-13W 12-22-13W 11-22-13W	400 40 2,700 Combi	69,689 4,205 397,297 ned with Gates	94,474 4,834 5,127,732 s South	1	LansK.C. Arbuckle Arbuckle	3,471 3,612 3,690
Drach West (1938) Duggan (1951)	14-22-13 W 30-21-11 W	2710 710	2,704 42,997	120,262 99,189		Arbuckle LansK.C. Penn. congl. Simpson Arbuckle	3,312 3,479 3,505 3,514
Eden Valley (1950)	29-21-13W	400	82,298	115,198	10	LansK.C. Arbuckle	3,496 3,748
Eric (1951)	8-21-13W		ned with Dell				
Farmington (1943)	34-24-15W	980	54,786	1,047,507	-	Kinderhookian Arbuckle	4,417
Fischer (1938) Fischer Northwest (1948)	31-21-12 W 36-21-13 W	1,000	20,504 433,304	369,758 1,390,846	32	Arbuckle LansK.C. Arbuckle	3,641 3,464 3,639
Frey (1950) Gates (1933)	7-21-14 W 27-21-13 W	700 1,200	13 6, 27 4 280 , 670	344,804 و 3,639 2,639,324		Arbuckle Viola Arbuckle	3,717 3,635 3,679
Gates South (1949) German Valley (1951)	3-22-13 W 4-22-12 W	800 80	111,616 10,012	255,971 16,596		Arbuckle Arbuckle	3,748 3,648
Gray (1946) Grow (1949)	11-24-13 W 16-21-13 W	120 6կ0	3,094 98,289	42,432 284,405		LansK.C. LansK.C. Arbuckle	3,762 3,463 3,705
Grow West (1952)	16-21-13¥	Combi	ned with Haze			-	29142
Grunder (1943)	11-25-15W	40	1,734	22,276		LansK.C.	3,945
Happy Valley (1952) Hart (1949)	15-23-13 W 36-22-1կ W	40	3,624 no report	3,624 14,204	1	Arbuckle Arbuckle	3,810 3,830
Harter (1950)	30-24-13W	80	9,823	64,951	4	LansK.C. Simpson	3,767 4,167
Hazel (1942)	21-21-13W	840	با80 وبلاد	510,921	21	Arbuckle Arbuckle	4,181 3,692
Hazel West (1950)	20-21-13W	800	11,9,072	306,636		Arbuckle	3,673
Helene (1952)	16-22-12W	40	2.272	2,272	1	Arbuckle	3,685
Heyen (1943) Hickman (1951)	21-22-12₩ 27-21-11;₩	800 700	36,577 198,460	519,844 343,692		Arbuckle LansK.C. Simpson	3,652 3,522
Hickman South (1952) Hudson (1952)	34-21-14₩ 33-22-12₩	40	2,152 no report	2,152 none	1	LansK.C.	3,567 3,495
Hufford (1948)	33-21-13W	400	138,643	475,203	14	LansK.C. Arbuckle	3,499 3,755
Jordan (1936)	15-25-14₩	380	40,856	749,807	9	LansK.C.	3,722
Kachelman (1950) Kelly (1948)	7-25-13W 35-23-12W		no report no report	1,868 5,204		Viola Arbuckle	4,075 3,870
Kenilworth (1947)	15-22-13W	400	49,845	337,096	12	LansK.C. Arbuckle	3,505 3,808
Kipp (1937)	27-25-11₩	300	16,806	635,921		LansK.C.	3,827
Kipp Northeast (1946)	23-25-14W	120	15,501	181,109	3	LansK.C.	3,8hh
Knoche (1951) Koelsch (1952)	8–2կ–12 ₩ 2կ–2կ–1կ ₩	80 80	640 5,000	992 5,000		Viola LansK.C.	3,810 3,750
Koelsch Southeast (1952)	25-24-14W	40	1.217	4.217	1	Arbuckle	L.187
Kowalsky* (1941)	32-20-11W	80	6,496	9,209	2	LansK.C.	3,279
Kowalsky Southwest (1950) Leesburgh (1938)	6-21-11W 12-25-13W	240 700	28,496 51,222	9,209 97,935 2,439,835	>	Arbuckle Simpson Arbuckle	3,424 4,060 4,153
Leo (1950)	7-21-13W	80	23,432	36, ०५३	3	LensK.C. Arbuckle	3,475 3,636
Lincoln (1951) Lincoln Northwest (1952)	29- 21-14 ₩ 29-21-14 ₩	160 40	43,860 1,344	57,679 1,3ابل		lansK.C. Arbuckle	3,513 3,778



McCandless (1944)	30-25-13W	3110	134,191	606,192	13	LansK.C. Simpson	3,863 4,251
McGinty (1950)	13-21-17A	PO	2,327	8,480	1		3,503
McGinty Northwest (1951)		10	6,181	16,339	ī		3,483
Marie (1951)	30-21-12W	160	27,468	40,226	Į.		3,4-3
				• •	•	Arbuckle	3,639
Max (1938)	35-21-12W	4.480	686,255	5,005,059	78	LansK.C.	3,356
• • • •		•	•			Simpson	3,615
						Arbuckle	3,570
Max South (1950)	15-22-12 W	40	1,627	6,557	1	LansK.C.	3,320
Merle (1949)	32-23-13W	380	40, 363	262,400	13	LansK.C.	3.669
Moon (1948)	4-22 -13W	80	10,206	25 , 558	2	LansK.C.	3, 530
				•		Penn. congl.	3,643
Mt. View (1952)	29-22-13 W	40	4,395	4,395	_1	LansK.C.	3,641
Mueller (1938)	29-21-12 W	4,400	628,130	4,297,455	85		3,356
						Arbuckle	3,594
Mueller Northwest (1951)			ined with Mue!	ller	_		- (-0
Mueller West (1949)	24-21-13W	120	10,982	16,259		Arbuckle	3,658
Nellie (1948)	28-22-11₩	40	726	21,542		LansK.C.	3,696
Neola (1948)	15-25-11W	80	3,636	23,347		Viola	3,921
North Star (1952)	27-24-12 W	570	27,494	27,494	6	Viola	3,915
01 Connor (101.9)	8-24-15W	120	2 021	19 222	•	Simpson	4,063 3,768
0'Connor (1948) Oscar (1949)	24-22-14W	340	3,971 30,722	17,333 116,108	ر ۾	LansK.C. LansK.C.	3,503
USCAP (1949)	24-55-14#	340	30, 122	110,100	U	Viola	3,777
						Arbuckle	3,798
Oscar North (1951)	14-22-14W	300	55,389	66,116	7	Arbuckle	3,780
Oscar West (1952)	22-22-17M	120	15,912	15,912		LansK.C.	3,593
Pleasant Hill (1951)	26-24-12W	110	no report	69	,	LansK.C.	3, 530
Pleasant Grove (1952)	26-22-12W	80	4,270	4,270	2	LansK.C.	3,462
Prairie Home (1949)	2-21-13W	80	1,163	14,940		Arbuckle '	3,514
Pritchard South (1951)	3-21-11#	40	6,780	6,997	ī	LansK.C.	3,483
Pundsack (1947)	19-21-13W	760	104,710	331,618		LansK.C.	3,575
• • • • • • • • • • • • • • • • • • • •	•		-			Arbuckle	3,735
Pundsack North (1950)	18-21-13W	160	26, 299	47,791	4	Arbuckle	3.674
Pundsack Northwest (1950)		40	832	5,031	1	LansK.C.	3,512
Rattlesnake (1938)	13-24-14₩	160	13,790	177,030	4	LansK.C.	3,608
Rattlesnake Southwest	11¹-51¹-17¹≜	40	10,517	56 , 999	1	LansK.C.	3,760
(1950)		-1-			_		
Rattlesnake West (1944)	11-24-14₩	240	26, 215	107,586	7	LansK.C.	3,759
D4 - b 42 0 2 0)	26 00 20-	3 100	בבט בטן	33 300 C33	42	Mississippian	4,025
Richardson (1930)	36-22-12W	1,400	553,534	11,789,577	97	LansK.C.	3,264
D4-63-64 (2011)	02 01 31-	1.0	495	104 200		Arbuckle	3,537
Richland (1944)	27-24-14₩	40	495	186,258	1		4,032 4,232
P43 (2010)	28-23-11W	80	4,485	137,177	2	Arbuckle	
Riley (1940) Rose Valley (1952)	36-25-13W	40	4,405		` ;	LansK.C. LansK.C.	3,323 3,824
Rothgarn (1943)	10-21-13W	7770	33, 365	4,898 272,899	าก้	LansK.C.	3,369
monigatin (1945)	10-21-178	440	22,007	212,077	10	Arbuckle	3,569
Rothgarn Southeast (1950)	14-21-13W	120	26,390	43,635	3	Arbuckle	3,544
St. John (1935)	23-24-13W	840	45,624	2,567,157		LansK.C.	3,588
				-,,-,,-,,		Arbuckle	4,075
St. John North (1952)	20-23-13W	40	2,231	2,231	1	LansK.C.	3,603
St. John Northwest (1952)	20-23-13W	40	3,816	3,816	1	LansK.C.	3,644
St. John Townsite (1944)	33-23-13W	400	25,477	384,422	10	LansK.C.	
						Ar buckle	3,919
Sandago (1947)	12-21-12W	5/10	12, 103	132,131		Arbuckle	3,480
Sand Hills (1944)	19-21-11W	40	3,735	53,437		Arbuckle	3,548
Saundra (1946)	14-21-12W	260	21,332	170,933	6	LansK.C.	3,282
Shandson (3013)	2 02 22-	300	33.350	330 31 (•	Arbuckle	3,546
Shaeffer (1941)	3-21-13 W	120	13,150	339,346	3	LansK.C.	3,404
Shepherd (1951)	16-22-11 V	280	61,971	104,201	-	Arbuckle	3,546
Silver Bell (1949)	10-22-11W	260 260			٤	Arbuckle	3,548
DIII DEII (1747)		200	13,239	41,278	5	LansK.C. Arbuckle	3,498 3,774
Sittner (1937)	33-21-12W	ەبلىل	26,848	654,868	72	LansK.C.	3, 278
	//-ca-46#	що	والمرودة	374,000	19	Arbuckle	3,600
Sleeper (1951)	22-22-11W	80	2,697	14,796	2	Penne congle	3,581
			-,-,	,.,-	-		-,,,



TABLE 66.—Oil	production	in Kenses	during .	1952, continued
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	I ABLE 00.—C	ni prosucien	In Asias Gui	ing 1952, continu	40		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952, bbls.	No. pro- ducing wells		Depth to pro ducing zone, feet
Smallwood (1951)	2-22-11₁₩	640	155,995	196,389	15	LansK.C.	3,474
Snider (1936)	3-21-11W	80	20,262	330 ، بلبليا	9	Arbuckle Simpson	3,576
	16-21-11 W	500	87,768	1,178,310		Simpson Arbuckle	3,362 3,402
Spangenberg (1943)	21-22-12W	40	3,100	80,107	1	Arbuckle	3,691
Stafford (1940)	15-24-12 W	1,280	197,426	3,376,242	33	Viola .	3.836
01 (2000)	1 02 21-	10	2 (/0			Arbuckle	3,945
Star (1950) Strobel (1952)	14-21-11:W	40 80	1,669 6,651	9,755		Arbuckle	3,579
3trobel (1952)	9-22-14 W	80	0,051	6, 651	2	LansK.C. Arbuckle	3,659 3,864
Strobel Northwest (1952)	8-22-14W	80	4,209	4,209	2	Simpson	3,852
2000000	·	•	4,	4,007	_	Arbuckle	3,874
Syms East (1947)	21-21-12W	40	2,253	9,840	1	Arbuckle	3,565
	27-21-12W	40	2,356	2,356		Arbuckle	3,565
	15-21-11.W	40	9,427	9,427		Simpson	3,688
	20-24-13W	120	4,523	202,385		Arbuckle	4,069
	23-21-14W	40 80	2,475	9,049	1	LansK.C. LansK.C.	3,570 3,569
Van Winkle Southeast (1950) Wendelburg (1951)	19-23-11 W	70	14,570 5,721	34,196 10,358	í	Arbuckle	3,729
Zenith-Peace Creek*(1937)		6,000	159,885	20, 348, 398		LansK.C. Viola	3,481 3,860
Pools or fields abandoned				50,827			- •
Total Stafford County		47,220	6,462,936	76,013,531	1,044		
		Su	LINER COUNTY				
Alton (1949)	10-35-2W		no report	12,148		Simpson	4,711
Anness (1937)	2-30-LW	40	2,200	154,028	1	Simpson	4, 394
Anson (1948)	35-30-2W	80	19,119	74,893		LansK.C.	3,264
			•			"Miss. lime"	3,742
Bellman (1945)	15-30-1E	160	23,379	279,683		Simpson	3,798
Caldwell (1929)	17-35-3W	160	53,859	1,479,057			4,765
	8-35-3W	40	3,011	3,011	1	Simpson	1,835
Chandler (1942) Churchill (1926)	4-35-2E 25-31-2E	720	no report 70,345	9,947 16,402,411	26	"Miss. lime" "Stalnaker"	3,450 1,820
CHM CHM11 (1920)	25-21-22	120	10,045	10,402,411	20	Arbuckle	2,632
Corbin (1948)	23-34-2W		no report	37,286		Simpson	4,475
Fall Creek (1950)	3-35-3W	800	298,510	761,635	24	Simpson	4,746
Guelph (1951)	6-35-1E	64o	184,067	209,247	20	LansK.C.	3,028
						Simpson	3,854
	30 35 35	10	0.20	0.20		Arbuckle	3,969
Hunnewell (revived) (1952)	9-30-2W	40 540	838	838 1,243,928		Mississippian LansK.C.	3,602 3,042
Latta (1927) Lee (1951)	33-32-2E	300	39,384 28,579	38,402		Mississippian	
Margaret (1946)	36-32-2E	40	2,489	108,423		Arbuckle	3.474
Metz (1951)	7-32-2E	40	5,706	17,160		Simpson	3,735
• • • •			•			Arbuckle	3,773
Murphy* (1933)	7-35-3E		See Cowle				
Oxford (1927)	1/1-32-2E	800	106,325	16,132,151	25	Hoover	1,930
						"Stalnaker"	2,020
						"Layton" Arbuckle	2,510 2,890
				699,585	6	Simpson	3,681
Oxford West (1926)	17-32-28	240	27,012	0,7,505	•		,,
Oxford West (1926) Padgett (1925)	17-32-2 8 12-33-2 W	240 2 , 700	27,012 195,958	2,381,382		Arbuckle "Miss. lime"	3,474
Padgett (1925)	12-33 -2W	2,700	195,958	2,381,382	38	Arbuckle "Miss. lime" Simpson	3,474 3,744
		•			38 12	Arbuckle "Miss. lime"	



Slate Creek (1952)	9-33-2E	ЬO	4,651	4,651	1	LansK.C.	2,804
Tate (1950)	31-32-2E		no report	3, 171	_	Sirpson	3,726
Val Verde (1945)	23-33-2E	40	1,92	5,442 926,067	1	"Bartlesville"	3,280
Vernon North (1930)	15-35-2E	1,860	58,571	926,067	24	"Miss. lime"	3,443
Wellington (1929)	33-31-1W	3,000	216 , 097	7,943,111		"Chat"	3,655
Zoglmann (1951)	8-31-1W	40 560	5,905	14,101	1		4,036
Zyba (1937) Zyba Southwest (1944)	7-30-1 E 22-30-1 W	600	31,355	352,265	7		3,866
Pools or fields abandone		000	178,676	717,691 126,475	771	Simpson	3,918
		71 010	3 933 050		300		
Total Sumner County	,	14,240	1,811,250	51,410,609	380		
		TH	OMAS COUNTY			•	
Mingo (1952)	19 - 9-32₩	40	1,208	1,208	1	Mississippian	4,680
		TR	ECO COUNTY				
Cotton (1945)	15-12-21W	40	1,970	31,093	1	Arbuckle	3,958
Cotton East (1947)	14-12-21W	40	5,199	41,477		Arbuckle	3,942
Ellis* (1942)	31-12-20W	420	30,939	348,996	5	Arbuckle	3,832
Ellis Northwest (1944)	26-12-21 W	160	8,279	172,878	4	Arbuckle	3,925
Ellis South (1952)	12-13-217	110	1,420	1.420	1	Arbuckle	3,822
Groff (1952)	26-11;-21 W	40	1,387	1,387		Penn. congl.	3,822
Nieden (1952)	16-12-23W	40	6,210	6,210		L'ississippian	3,650
Ogallah (1951)	26-12-22W	3,000	563,584	670 , 286	05	Arbuckle	3,961
Ogallah West (1951) Ridgeway (1952)	28-12-22 7 26-12-21 V	300	ned with Ogal 38,189	38,189	7	Arbuckle	3,196
Spring Creek (1951)	32-12-21W	40	120	31,0		Arbuckle	3,904
Sunny Slope (1952)	21-14-21W	300	33,190	33,190		Marmaton	3,81.8
Wakeeney (1934)	14-11-23	640	21,898	819,097		LansK.C.	3,619
Wakeeney East (1949)	13-11-23W	40	1,172	11,90h	1	LansK.C.	3,576
Walz (1950)	12-11-21W	640	88,088	160,485	10	LansK.C.	3,428
	•			72.00 /		Arbuckle	3,666
Pools or fields abandone	od			51,206	_		
Total Trego County		5,740	801,645	2,394,158	110		
		WABA	UNSEE COUNTY				
Davis Ranch (1949)	33-13-10E	1,260	236,531	895,220	18	"Hunton" Viola	2,929 3,201
Kill Creek (1950)	2-13-10E	320	35,585	88,585	և	Viola	2,923
Newbury (1950)	11-11-11E	320	48,672	107,595	6	Viola	2,901
Wheat (1951)	10-15-11E	100	4,221	4, 1,03	ĩ	Simpson	3,230
Woodbury (1951)	11-15-10E	320	8,285	11,896		Viola	3,328
Pools or fields abandone	d			<u>7,599</u>	_		•
Total Wabaunsee Cou	nt y	2,320	333,294	1,115,298	31		
		WI	LSON COUNTY				
Altoona (1903)	10-29-16E	600			5+	"Squirrel"	650
a (2,0),	10 0, 102	-	31			"Bartlesville"	- , -
ъ			570				,
С			547				
đ			614				
			.78				
Altoona East	29-17E	300	3,635			"Bartlesville"	
Benedict	28-15 E	40	518		11	"Bartlesville"	1,000
Buffalow (1924)	27-16E	1,000	5,298		٠ ر	"Bartlesville"	
a b			234			Cherokee	1,150
c			943				
Fredonia (1890)	29-15 E	300	747		3.4	"Burgess" .	1,050
4	-//	200	4,508		,	J	-, -,-
ъ			120				
Humboldt-Chanute*	28-17E	200	3,116			"Bartlesville"	850
Neodesha#	30 – 16 €	3,600	-		10 4	"Bartlesville"	950
A			8,899				



Table 66.—Oil pro-	duction in Kansas (luring 1952	, concluded
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Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, bbls.	Cumulative production to end of 1952,bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing some, feet
ъ			345				
.c			8بلبا				
d			22,563				
e Noodosha Rost	20.37	200	67 7		•		
Neodesha East Vilas (1905)	30–17€ 27 – 17€	200 160	4hh		1+	"Bartlesville	
a (1)0))	21-116	100	3,547		2*	"Del.CTBSATTTE	1,000
ъ			2,769				
"Wiggins"	28-17 E	600	7,067		5+	"Bartlesville	* 850
Total Wilson County		7,000	67,271	5,343,146 recorded	32+		
		WOO	DSON COUNTY				
Batesville (1934)	34-25-14E		no runs			*Bartlesville	• 1.450
Big Sandy (1923)	23-26-14E	650	26,572		19	"Bartlesville	1,230
Buffalo* (1924)	26 – 16€	200	2,301			"Bartlesville	
- 4						Çherokee	1,150
Evans (1938)	21-23-158	300	3,613			Mississippier	
Hoagland (1929) Humboldt-Chamute*	2-24-14E	1,400 600	36, 961			Mississippiar	
a.	25-17E	800	2,659		2*	"Bartlesville	900
b			686				
Jobes	24-13E		no report				
Neosho Falls# (1928)	23-16E	2,200			19*	"Squirrel"	950
a		•	7,302			Mississippiar	1,200
ъ			3,552				
C	~		14,627		٠.		
Perry Piqua (1938)	26-172	500	15,194		5+	***	
Quincy* (1932)	22-24-17E 14-25-13B	1,800	127 197, 02 9			Mississippiar "Bartlesville	
Rose	7-26-168	1,000	no report		200*	"Der CTR SATITE	1,500
Silver City (1946)	19-23-152		no report				
Steele (1952)	20-23-15E	40	1,050		1+	Mississippian	1,525
Vernon	23-16E	200	1,045			Mississippiar	
Virgil North# (1920)	22-23-13E	600	20,779		10+	"Bartlesville	
W-/ (2027)	22 02 25		A2 02 d			Mississippiar	
Weide (1937)	31-23-158	900	23,815			Mississippiar	
Winterscheid*	23 –14E	7,000	254,275		210	"Bartlesville	
Wissman (1936)	3-24-153	300	2,993		24	Mississippian Mississippian	
Yates Center	28-25-15B	1,000	-9///			Mississippiar	
	, -,-	_,	13,461				
ъ			360				
Miscellaneous			3,110				
Total Woodson County	7	17,790	631,511	5,219,172	642+		
·		-	-	recorded			

^{*} Field extends into adjacent county or counties. ** Corrected cumulative.

Pool or field name and year of discovery	Location of dis-	Area,	1952 pro-	Cumulative	No.	Producing	Depth
	well	,	duction, M cu. ft.	production to end of 1952, M cu. ft.	pro- ducing wells		to pro ducing zone, feet
		AI.	LEN COUNTY				
Humboldt-Chanute	26-18E		140,065		33		740
Miscellaneous			245,618		80+	"Bartlesville	850
Total Allen County			385,683		113	•	
		ANT	ERSON COUNTY				
Southeast part of Anders	on County		919		1+		
		ВА	RBER COUNTY				
Aetna (1935)	13-34-15₩	500	67,778	975,28Lpe	st. 1	Mississippian Viola	4,850 5,215
Boggs (1947)	8-33-12W	80	Included	with Whelan		Simpson	4,824
Clara (1944)	2-30-14 W	280	no report	717,792		Simpson	4,435
						Viola Ambuokla	4,509
Cottonwood Creek (1948)	21-30-14W	160	no report	none		Arbuckle, Simpson	4,540 4,582
Deerhead (1942)	26-32-15W	640	no report	1,693,763		Viola	4,931
DeGeer (1948)	2-33-15W	100	5,327	101,890	1	Viola	5,176
Donald (1946)	33-31-15W	160	no report	none		"Miss. lime"	4,697
Lake City (1945)	7-31-13 W	40	Included	with Skinner N	orth	•	-
Medicine Lodge (1927)	13-33-13W	7,200	3,505,008	144,823,371	40	•,•-	4,455
Medicine Lodge Northeast	8-33-12W	300	Included	with Medicine	Lodge	"Douglas sd."	3,812
(1945)						Simpson	4,860
Nippawalla (1951)	13-33-12W	110	no report	none		"Douglas sd."	3,659
Skinner North Skinner South (1944)	17-31-14W 32-31-14W	5,200 200	609,299	22,380,135	10		4,630
Whelan (1934)	32-31-11 W	640	2,219,993	with Skinner N 20,349,298	10	"Douglas sd."	4,023
Total Barber County	-	15,240	6,407,405	191,041,533	62		4,355
			RTON COUNTY	171,041,777			
Adolph (1947)	16-20-15W	<i>D</i> .	no report	none		Ambu alel a	2 72).
Ash Creek* (1948)	31-20-15W	200	175,300es		2	Arbuckle Arbuckle	3,734 3,769
Behrens (1944)	6-20-15W	200	175,3000	st.	2	ATOUCKIB	J, 107
Bergtal (1941)	22-20-15W	500	54,473	784,437	3	Arbuckle	3,689
Dundee (1945)	29-20-14W	600	ىلىلە ، 278	1,749,092	5	Arbuckle	3,607
Eberhardt (1935)	14-19-11	100	7,891	356,038	í		- ,,
Heiser Southwest (1952)	21-19-14 W	ħΟ	11,837	11,837	1	Penn. congl.	3,496
Krier (1944)	30-16-11 W	160	93,650	492,938	2		
044- 135 (2020)	33 30 3/ -			raft-Prusa pool			
Otis-Albert* (1930)	11-18-16#	7,000	1,009,489es	Bt.	22	Neva	3 505
Pawnee Rock* (1936) 1	9&20-15&16#	100	87,000		est. 1	Reagan	3,507
Rick* (1941)	11-19-11	-66	no report	360,722	•	Arbuckle	3,355
Unruh (1945)	24-20-15W	400	794,119	10,707,752	4	Arbuckle	3,641
Total Barton County	•	9,360	2,687,303	14,462,816	43		<i>></i> ,
		BU	TLER COUNTY				
Andover South	31-27-3E		no report			"Stalnaker"	2,006
		CH	ASE COUNTY				•
Altems	26-18-8 2	0.0	no report				



D -3 6(-3)		-		1952, continued			
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, M cu. ft.	Cumulative production to end of 1952, M cu. ft.	No pro ducing wells		Depth to pro- ducing zone, feet
Davis ['] (1929) Elndale	18-8E 19-7E	645 300	52,393 12,752			L. Permian L. Permian Wabaunsee	350 <u>-</u> 400 500 800
Hmer	18-7E		no report			# -22 4.2500	000
Lipps Neva	32-18-7E 19-7E		no report no report				
Total Chase County	1)-12	940	65,145		40		
		CHAU	TAUQUA COUNTY		-		-
Miscellaneous			126,227		15		
		CI	ARK COUNTY				
Ashland (1951)	35-32-237	1,200	263,971	263,971	2		- 1 - 0
Snake Creek (1952) Theis (1951)	21-34-21 \ 5-34-25 \	640 1,600	no report no report	none none		Morrowan Mississippian	5,452 5,532
Total Clark County)) - -)	3,440	263,971	263,971	2		. ,,,,,
		co	FFEY COUNTY				
Miscellaneous			11,477		2		
		co	WLEY COUNTY				
Brown West (1951)	14-31-7E		no report				
"Cambridge Southeast"	14-71-15	40	116,920		1		
Estes	20 40	1.0	no report		_	Douglas	1,568
Frog Hollow Gibson	32–5E 34–3Z	40 120	4,235 319,095		1		
New Salem (1949)	21-31-5E	120	no report		,		
Tisdal s	32-5E	40	5,071		1		
Trees	30-lie	80	37,938		2		
Wilmot-Floral Winfield	31 - 5E	40	61,647 no report				
Total Cowley County		360	544,906		8		
		CRA	WFORD COUNTY				
Miscellaneous			29,270		19		
		DOU	GLAS COUNTY				
Eudora Lawrence			no report				
		KOZ	ARDS COUNTY				
Belpre (1942)	8-25-16\	80	213,093	6,404,700	3	LansK.C.	3,800
Bradbridge#(1948)	6-24-15W	200	no report	none	_	Arbuckle	4,020
Total Edwards Count	у	280	213,093	6,404,700	3		
			EIK COULTY				
(2000)	1 22						

no report



4-30-9E

Bush-Denton (1920)

ELLSWORTH COUNTY

no report

292,081

Schrader

L'iscellaneous

Stoltenberg (1947) Figure	18-17-97 includes to	100 tal county		381,061 reported by Co		Shawnee ion Commission	2,728
		F	TINEY COUNTY				
Hugoton* Nunn (1938)	27-21-34 W	See 120	Hugoton Gas A 56,839	rea 130,488	3		
·			רסת ססידותייסי				
Pleasant Valley (1938)	34-27-21W		no report	none		Mississippian	4,954
		G	RAHAM COUNTY				
Law (1951)	34-9-23W	400	11,225	11,225	4		
	GRA	LIT COUNTY	(See Hugoton	Gas Area)			
	HAMTI	TON COUNTY	(See Hugoton	Gas Area)			
		н	ARPER COUNTY				
Grabs (1949) Grabs Southeast (1950)	7-31-8 % 17-31-8 %	120	74,971 no report	176,919 none	3	Mississippian Mississippian	
		н	ARVEY COUNTY				
Burrton* (1930) Burrton Northeast (1942) Speriing(1935)	23-23-4W 3-23-3W 23-22-2W	640 250	Included 40,243	Reno County pr with Burrton 6,619,942	oductio	Mississippian "Chat"	3,226 2,955
Wall (1951) Total Harvey County	25-2 2-3 ₩	890	no report 546,314	none 6,619,942	11	Mississippian	3,150
	HASK	ELL COUNTY	(See Hugoto	n Gas Area)			
(Finney Count	Unmilton Une		OTON GAS AREA		d C4	auana Caumtia a	
(Finney, Grant, 1941)				2,101,982,973			
		JEF	FERSON COUNTY				
McLouth		400	40,130		13		
		JO	HNSON COUNTY				
Miscellaneous			27,668		24		
	KEA	RNY COUNTY	(See Hugoton	n Gas Area)			
		KI	NGMAN COUNTY				
Artesian Valley (1952)	22-27-10W	40	3,457	3,457	1		
Artesian Valley (1952)	22-27-10 W	_		3 , 457	1		



Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, M cu. ft.	Cumulative production to end of 1952, M cu. ft.	No. pro- ducing wells	Producing zone	Depth to pro- ducing zone, feet
Broadway (1948) Cunningham (1931)	21-28-5W 7-28-11W	280 600	451,341 278,701est.	451,341		Arbuckle	4,094
Dewey (1950)	9-28-5W	900	591,416	1,278,596	_5	Viola	4,278
Total Kingman County	y	1,780	1,324,915	2,170,973	23		
		KI	COWA COUNTY				
Alford (19山) Brenham (19山7) Miscellaneous	14-30-19 v 29-28-17 v	200	no report no report 33,714	none none 69,1 65	2	Spergen Whiss. chert	5,040 4,841
				0,,10,			
		LAE	BETTE COUNTY				
Coffeyville-Cherryvale* Valeda Miscellaneous	32 - 17 8		no report no report 19,614		12		
		LEAVI	NWORTH COUNTY				-
Linwood Roberts-Maywood*		120	no report 6,608		3		
		I	INN COUNTY	-			
LaCygne-Cadmis	20-51te	40	1,600				
		мсРн	ERSON COUNTY				
Coons (1940) Doles Park (1947) Graber North (1951) McPherson (1926)	13-19-1W 12-19-1W 4-21-1W 29-18-2W	200 160 40 40		th McPherson th McPherson none	1	"Chat" "Chat" Mississippian LansK.C. "Chat" Viola	2, 340 2, 967
Ritz-Canton (1929)	12-20-2W	100	Included wi	th McPhorson	:	"Chat"	3,140 2,935
Total McPherson Cour	aty	540	3,591		1		
		MA	RION COUNTY				
"Marion" Propp	8 – 19–4 e	160	no report 69,180		4		
		M	ADE COUNTY				
Adams Ranch (1945) Adams Ranch East (1947)	8-35-30 w 36-34-30 w	500 2,500	71,772 no report	249,406 none		Mississippian Morrowan Mississippian	5,850 5,874 5,094
Fringer (1952) McKinney (1950) Stevens (1952)	7-35-29W 2-34-26W 32-32-30W	1,800 5,760 640	no report 478,354 no report	none 478,354 none	8	Morrowan Mississippian Morrowan	5,780 5,762 5,560
Total Meade County		11,200	550,126	727,760	10		
		MI	AMI COUNTY				
Miscellaneous			47,000				



		MON	ICOMERY COUNTY	•			
Coffeyville-Cherryvale#()	1902)33-17E	40	no report				
Miscellaneous		40	32,569 521,729				
Total Montgomery Con	mtv	10	554 , 298				
		M (ORRIS COUNTY				
North part of county South part of county			1,613		1		
•			43,960		<u>16</u>		
Total Morris County			45,573		17		
		M	DRION COUNTY				
Greenwood (1951)	14-33-42W	6110	no report	. none		Morrowan	4,872
Hugoton# Richfield (1948)	17-32-40W	640	55,254	on Gas Area 563,012	1	Basal Penn.	4,990
Total Morton County		1,280	55,254	563,012	ī	(Atokan)	
10022 2010011 (00210)			77,9274	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
		N	OSHO COUNTY				
Miscellaneous			133,490		119	•	•
		P	WINEE COUNTY				
Ash Creek* (1948)	31-20-15W	100	175,300es	t.	2	Arbuckle	3,769
Benson Southeast (1946)	32-23-15W	600	100,278		6		4,048
Evers (1951)	36-21-16₩	Inclu 100	ides Benson and 469,445	d Benson South 469,445	2	Arbuckle	3,908
Larned (revived) (1952)	28-21-16W		no report	4073447	-	Arbuckle	3,877
	%20-15&16W	600	1,491,10hes		17		•
Rutherford East (1950) Ryan#	4-20-16₩ 35-19-16₩	100	ned with Ryan 175,300es	t.	2		
Shady (1945)	34-22-16W	100	85,621	3,446,668	ī	Arbuckle	4,063
Torrance (1947)	19-21-15 W	100	19,154		ļ		-
Zook (1942) Total Pawnee County	16-23-16W	<u>320</u> 2,020	470,746	9,822,083	35 7	Arbuckle	4,066
TOTAL PRIME COUNTY		2,020	2,986,948	13,738,196			
			ATT COUNTY				
Barnes (1952) Chitwood (1943)	25-27-12 W 23-28-12 W	160 800	no report 722,273	none	19	Simpson	4,328
Cunningham# (1931)	7-28-11W	3,000	836,136est	8,405,741	29	Viola Viola	4, 340 4, 278
	/	Inclu	des Cairo pool	l production		Arbuckle	4,094
Tuka-Carmi (1942) Shriver (1949)	29-26-12W 27-29-11W	600 100	1,088,352 no report	1,461,621 93,073	9	Viola	4,122
Stark (1941)	13-26-12W	50	no report	779017		Viola	4,121
Ward (1941)	11-26-12 W	160	no report		_	Viola	4, 129
Total Pratt County		4,870	2,646,761	9,960,435	57		
		R	ENO COUNTY				
Burton# (1930)	23-23-LW	450		rith Harvey Cour		Mississippian	3,298
Lerado (1937) Yoder (1935)	10-26-9 W 34-24-5 W	150 200	22,134 98,600	بلبل2,169	3	"Chat"	3,402
Zenith-Peace Creek#(1937)		100	no report		_	Viola	3,860
Total Reno County		900	120,734	1,169,244	6		·
		R	ICE COUNTY				
Alden (1937)	22-21-9 T	f00 A	Included ith Chase-Sili	13,801,113 .oa		"Misener"	3,317



	TABLE 67.—Ga	s production	in Kansas during	1952, concluded	i		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1952 pro- duction, M cu. ft.	Cumulative production to end of 1952, M cu. ft.	No. pro- ducing		Depth to pro- ducing zone, feet
Chase-Silica (1936)	6-19-9 W	100	330,862	1,370,194		Arbuckle	3,192
Lyons (1888)	35 - 19-8 7	1,100	ndes miscellaneo no report	us Rice County 12,332,332	y prod	Simpson	3,290
Orth (1933)	27-18-10W	160	119,986		1	Arbuckle LansK.C.	3,277 2,906
Quivira (1947)	36 - 19-9₩	30 0	Included with	211,244		Tarkio	2,117
Union (1950)	28-20-8W	280	Chase-Silica Included with	Chase-Silica	ь	Penn. congl.	3,275
Total Rice County		2,340	450,848	27,714,883	9		J , 17
		F	USH COUNTY				
Otis-Albert* (1930)	11-18-16W	6,500	988,723est.			Neva	
Ryan*	35-19-16 w	300	964,200est.		est. 11 est.	Reagan	3,507
Total Rush County		6,800	1,952,923 est	•		est.	
		RUS	SELL COUNTY				-
Miscellaneous		100	10,147	10,147	2		
		SC	OTT COUNTY		-		
Y	0						
Keystone (1950)	. 25-18-32W	40	40,307	40,307			
		SED	GWICK COUNTY				
Andover South# (1950) Bartholomew# (1946) Derby (1937)	31-27-3 W 30-27-4 W 32-28-2 E	680	no report 459,042	none	114	"Stalnaker" "Miss. lime"	2,006 3,732
	-	st	nger productive; orage only	ased for gas	•	"Stalnaker" LansK.C.	2,215 2,228
Schulte (1949)	7-28-1 T	200	192,702	845,859	_3		•
Total Sedgwick Coun	ty	880	651,744	845,859	17		
•		SE	WARD COUNTY				
Hawks (1952) Hugoton#	18-35-31W	640	no report	none		Morrowan	5,927
Liberal-Light (1951)	11-35-32W	640	ugoton Gas Area 3,423,484	4,030,136	4		
Liberal Southeast (1947)	15-35-33W	860	1,117,068	7,686,613	3	Penn. sands tone	6,202
Liberal-White (1952) Light (1951)	35-34-32W 11-35-32W	320 Chang	no report ed to Liberal-Li	none		Morrowan	5,906
Total Seward County	>> >	2,460	4,540,552	11,716,749	7		
		STA	FFORD COUNTY				
Bradbridge* (1948)	6.3l. 3 0=	90	na	_			
Farmington (1948)	6-24-15 W 27-24-15 W	80 50	no report Included with Nacksville	none 691,757		Arbuckle Mississippian	4,020 4,207
Farmington West (1952)	6-25-15W	50	no report	none		Penn. "sand"	4,164
Gates (1950)	26-21-13W	40	66,336	238,471	1	LansK.C.	3,473
Hill (1952) Knoche (1951)	11-23-12 W 8-24-12 W	40 300	no report	none	,	LansK.C.	7بلبا و 3
Macksville (1947)	3-24-15W	400	395,720 911,790	586,976 4,510,649		Viola LansK.C.	3,810
0'Connor (1947)	16-24-15W	160	no report	none		Arbuckle	4,061



Zenith-Peace Creek*(1937 Total Stafford Coun	• • •	200 1,280	no report 1,373,846 6,	027 , 853 14	Viola	3,860
	STANTO	ON COUNTY	(See Hugoton Gas A	rea)		
	STEVE	S COUNTY	(See Hugoton Gas A	rea)		
		SU	MNER COUNTY			
Fall Creek (1950) Padgett (1924) Vernon North (1915)	3-35-3 w 23-34-2 E 15-35-2 E	6110 6110 110	no report no report no report		Simpson "Miss. lime"	4,746 3,474
Tellington (1929)	33-31-1 W	No lo	nger productive; us storage only	ed for gas	"Chat"	3,655
Total Sumner County	·	1,320	none reported			
		WI	LSON COUNTY			
Neodesha* Miscellaneous	30–16E		no report 185,316	15	;+	
		₩00	DSON COUNTY			
Miscellaneous			41,732			
		WYAN	DOTTE COUNTY			
Roberts-Maywood*	11-23E	120	4,920	3	ı	

^{*} Field extends into adjacent county or counties.

BIBLIOGRAPHY

The following list includes all reports on oil and gas developments published by the State Geological Survey and reports to which reference has been made in the text.

- ABERNATHY, G. E. (1939) Oil and gas exploration map, Labette County, Kansas: Kansas Geol. Survey, scale 1 inch to 11/4 miles.
- ——— (1940) Oil and gas in Montgomery County, Kansas: Kansas Geol. Survey, Bull. 31, pp. 1-29.
- ——— (1948) Ground waters available for water-flooding oil projects in southeastern Kansas: Kansas Acad. Sci. Trans., vol. 51, no. 1, pp. 125-130.
- American Petroleum Institute—American Gas Association (1952) Proved reserves of crude oil, natural gas liquids, and natural gas: vol. 7, pp. 1-21.
- Bass, N. W. (1929) The geology of Cowley County, Kansas: Kansas Geol. Survey, Bull. 12, pp. 1-203.
- ——— (1936) Origin of the shoestring sands of Greenwood and Butler Counties, Kansas: Kansas Geol. Survey, Bull. 23, pp. 1-135.
- BENZ, R. G., AND TUCKER, P. W. (1953) LFG sales show modest gain in 1952: Oil and Gas Jour., vol. 51, no. 34, pp. 58-60.
- BOUGHTON, C. W. (1920) Elk City gas field: Kansas Geol. Survey, Bull. 5, pp. 1-31.
- CHARLES, H. H. (1927) Oil and gas resources of Kansas, Anderson County: Kansas Geol. Survey, Bull. 6, pt. 7, pp. 1-95.
- Collins, J. B. (1947) Subsurface geologic cross section from Trego County, Kansas, to Cheyenne, County, Colorado: Kansas Geol. Survey, Oil and Gas Investi., No. 5, Cross Sec., pp. 1-8.
- DAHLGREN, E. G. (1951) Latest developments in secondary recovery of oil: Mines Mag., vol. 41, no. 10, pp. 121-126.
- EDSON, F. C. (1945) Subsurface geologic cross section from Ford County to Wallace County, Kansas: Kansas Geol. Survey, Oil and Gas Investi., No. 1, Cross Sec.
- —— (1947) Subsurface geologic cross section from Ford County, Kansas. to Dallam County, Texas: Kansas Geol. Survey, Oil and Gas Investi., No. 3, Cross Sec.
- FATH, A. E. (1921) Geology of the Eldorado oil and gas field: Kansas Geol. Survey, Bull. 7, pp. 1-187.
- FOLGER, ANTHONY (1933) Development of the oil and gas resources of Kansas in 1928 and 1929: Kansas Geol. Survey, Min. Res. Circ. 2, pp. 1-105.
- Grandone, Peter (1944) History of water flooding oil sands in Kansas: U.S. Bur. Mines, Rept. Investi. 3761, pp. 1-146.
- HALL, R. H. (1933) Development of the oil and gas resources of Kansas in 1930: Kansas Geol. Survey, Min. Res. Circ. 2, pp. 107-174.
- HAWORTH, ERASMUS (1898) Mineral resources of Kansas, 1897: Univ. Geol. Survey of Kansas, pp. 1-98.
- (1899) Mineral resources of Kansas, 1898: Univ. Geol. Survey of Kansas, pp. 1-127.
- ——— (1900) Mineral resources of Kansas, 1899: Univ. Geol. Survey of Kansas, pp. 1-67.
- ——— (1902) Mineral resources of Kansas, 1900 and 1901: Univ. Geol. Survey of Kansas, pp. 1-78.
- (1903) Mineral resources of Kansas, 1902: Univ. Geol. Survey of Kansas, pp. 1-135.
- —— (1904) Mineral resources of Kansas, 1903: Univ. Geol. Survey of Kansas, pp. 1-50.
- ——— (1908) Special report on oil and gas: Univ. Geol. Survey of Kansas, vol. 9, pp. 1-586.



- Jewerr, J. M. (1940) Oil and gas in Linn County, Kansas: Kansas Geol. Survey, Bull. 30, pp. 1-29.
- ——— (1949) Oil and gas in eastern Kansas: Kansas Geol. Survey, Bull. 77, pp. 1-308.
- —— (1951) Geologic structures in Kansas: Kansas Geol. Survey, Bull. 90, pt. 6, pp. 105-172.
- Jewett, J. M., and Abernathy, G. E. (1945) Oil and gas in eastern Kansas: Kansas Geol. Survey, Bull. 57, pp. 1-244.
- KEPLINGER, C. H., WANENMACHER, J. M., AND BURNS, K. R. (1948) Hugoton gas field of Kansas, Oklahoma, and Texas: presented at the Interstate Oil Compact Com. meeting. Wichita. Kansas. Dec. 9, 10, and 11.
- Compact Com. meeting, Wichita, Kansas, Dec. 9, 10, and 11.
 Keroher, R. P., and Kirby, J. J. (1948) Upper Cambrian and lower Ordovician rocks in Kansas: Kansas Geol. Survey, Bull. 72, pp. 1-140.
- Kesler, L. W. (1928) Oil and gas resources of Kansas in 1927: Kansas Geol. Survey, Min. Res. Circ. 1, pp. 1-60.
- KOESTER, E. A. (1934) Development of the oil and gas resources of Kansas in 1931 and 1932: Kansas Geol. Survey, Min. Res. Circ. 3, pp. 1-76.
- LANDES, K. K., AND JEWETT, J. M. (1939) Oil and gas seeps in Smith County, Kansas: Kansas Geol. Survey, Min. Res. Circ. 12, pp. 1-10.
- LANDES, K. K., AND KEROHER, R. P. (1938) Geology and oil and gas resources of Rush County: Kansas Geol. Survey, Min. Res. Circ. 4, pp. 1-31.
- (1939) Geology and oil and gas resources of Logan, Gove, and Trego Counties, Kansas: Kansas Geol. Survey, Min. Res. Circ. 11, pp. 1-45.
- LEE, WALLACE (1941) Preliminary report on the McLouth gas and oil field, Jefferson and Leavenworth Counties, Kansas: Kansas Geol. Survey, Bull. 38, pt. 10, pp. 261-284.
- ---- (1943) Stratigraphy and structural development of the Forest City basin in Kansas: Kansas Geol. Survey, Bull. 51, pp. 1-142.
- (1949) Subsurface geologic cross section from Barber County to Saline County, Kansas: Kansas Geol. Survey, Oil and Gas Investi. No. 8, Cross Sec., pp. 1-16.
- (1953) Subsurface geologic cross section from Meade County to Smith County, Kansas: Kansas Geol. Survey, Oil and Gas Investi. No. 9, Cross Sec., pp. 1-23.
- Lee, Wallace, Leatherock, Constance, and Botinelly, Theodore (1948) Stratigraphy and structural development of the Salina basin of Kansas: Kansas Geol. Survey, Bull. 74, pp. 1-155.
- LEE, WALLACE, AND OTHERS (1946) Structural development of the Forest City basin of Missouri, Kansas, Iowa, and Nebraska: U.S. Geol. Survey, Oil and Gas Investi., Prelim. Map 48, sheets 1-7.
- LEE, WALLACE, AND PAYNE, T. G. (1944) McLouth gas and oil field, Jefferson and Leavenworth Counties, Kansas: Kansas Geol. Survey, Bull. 53, pp. 1-195.
- MAHER, J. C. (1946) Subsurface geologic cross section from Ness County, Kansas, to Lincoln County, Colorado: Kansas Geol. Survey, Oil and Gas Investi., No. 2, Cross Sec., pp. 1-12.
- (1947) Subsurface geologic cross section from Scott County, Kansas, to Otero County, Colorado: Kansas Geol. Survey, Oil and Gas Investi., No. 4, Cross Sec., pp. 1-11.
- MOORE, J. I. (1938) Secondary recovery of petroleum, bibliography: Kansas Geol. Survey, Bull. 25, pp. 1-103.
- MOORE, R. C. (1920) Oil and gas resources of Kansas, general geology of oil and gas: Kansas Geol. Survey, Bull. 6, pt. 1, pp. 1-83.
- —— (1920a) Oil and gas resources of Kansas, geology of Kansas: Kansas Geol. Survey, Bull. 6, pt. 2, pp. 1-98.
- MOORE, R. C., AND BOUGHTON, C. W. (1921) Oil and gas resources of Kansas, Wilson and Montgomery Counties: Kansas Geol. Survey, Bull. 6, pt. 6, pp. 1-32.

- MOORE, R. C., AND ELLEDGE, E. R. (1920) Oil and gas resources of Kansas, Allen and Neosho Counties: Kansas Geol. Survey, Bull. 6, pt. 5, pp. 1-22.
- MOORE, R. C., AND HAYNES, W. P. (1917) Oil and gas resources of Kansas:
- Kansas Geol. Survey, Bull. 3, pp. 1-391.

 MOORE, R. C., AND OTHERS (1951) The Kansas rock column: Kansas Geol. Survey, Bull. 89, pp. 1-132.
- Nixon, E. K. (1948) The petroleum industry in Kansas: Kansas Geol. Sur-
- vey, map.

 Ockerman, J. W. (1935) Subsurface studies in northeastern Kansas: Kansas Geol. Survey, Bull. 20, pp. 1-78.
- SMITH, R. K., AND ANDERS, E. L. (1951) The geology of the Davis Ranch oil pool, Wabaunsee County, Kansas: Kansas Geol. Survey, Bull. 90, pt. 2, pp. 13-52.
- STEPHENSON, E. A., AND MOORE, J. I. (1941) The Otis gas and oil pool, Rush and Barton Counties, Kansas: Kansas Geol. Survey, Bull. 38, pt. 12, pp. 345-388.
- SWEENEY, A. E. Jr. (1949) Summary of secondary recovery production statistics and estimated water-flood reserves, Kansas 1948: Interstate Oil Compact Comm. Rept. 1949, pp. 1-62.
- VER WIEBE, W. A. (1938) Oil and gas resources of western Kansas: Kansas Geol. Survey, Min. Res. Circ. 10, pp. 1-179.
- (1939) Western Kansas oil and gas developments during 1938: Kansas Geol. Survey, Min. Res. Circ. 13, pp. 1-106.
- (1940) Exploration for oil and gas in western Kansas during 1939: Kansas Geol. Survey, Bull. 28, pp. 1-106.
- (1941) Exploration for oil and gas in western Kansas during 1940:
- Kansas Geol. Survey, Bull. 36, pp. 1-109.
 - (1942) Exploration for oil and gas in western Kansas during 1941: Kansas Geol. Survey, Bull. 42, pp. 1-123.
- (1943) Exploration for oil and gas in western Kansas during 1942: Kansas Geol. Survey, Bull. 48, pp. 1-88.
- (1944) Exploration for oil and gas in western Kansas during 1943:
- Kansas Geol. Survey, Bull. 54, pp. 1-104.

 (1945) Exploration for oil and gas in western Kansas during 1944:
- Kansas Geol. Survey, Bull. 56, pp. 1-112. (1946) Exploration for oil and gas in western Kansas during 1945:
- Kansas Geol. Survey, Bull. 62, pp. 1-112. (1947) Exploration for oil and gas in western Kansas during 1946:
- Kansas Geol. Survey, Bull. 68, pp. 1-111.
- VER WIEBE, W. A., AND OTHERS (1948) Oil and gas developments in Kansas during 1947: Kansas Geol. Survey, Bull. 75, pp. 1-230.
- (1949) Oil and gas developments in Kansas during 1948: Kansas Geol. Survey, Bull. 78, pp. 1-186.
- (1950) Oil and gas developments in Kansas during 1949: Kansas Geol.
- Survey, Bull 87, pp. 1-176.
 (1951) Oil and gas developments in Kansas during 1950: Kansas Geol. Survey, Bull. 92, pp. 1-187.
- (1952) Oil and gas developments in Kansas during 1951: Kansas Geol. Survey, Bull. 97, pp. 1-188.
- WEINAUG, C. F. (1951) Physical properties of eastern Kansas crude oils—a
- preliminary report: Kansas Geol. Survey, Bull. 90, pt. 4, pp. 69-76. WORLD OIL (1951) Natural gasoline, increase largest on record: vol. 132, no. 3. pp. 154-155.

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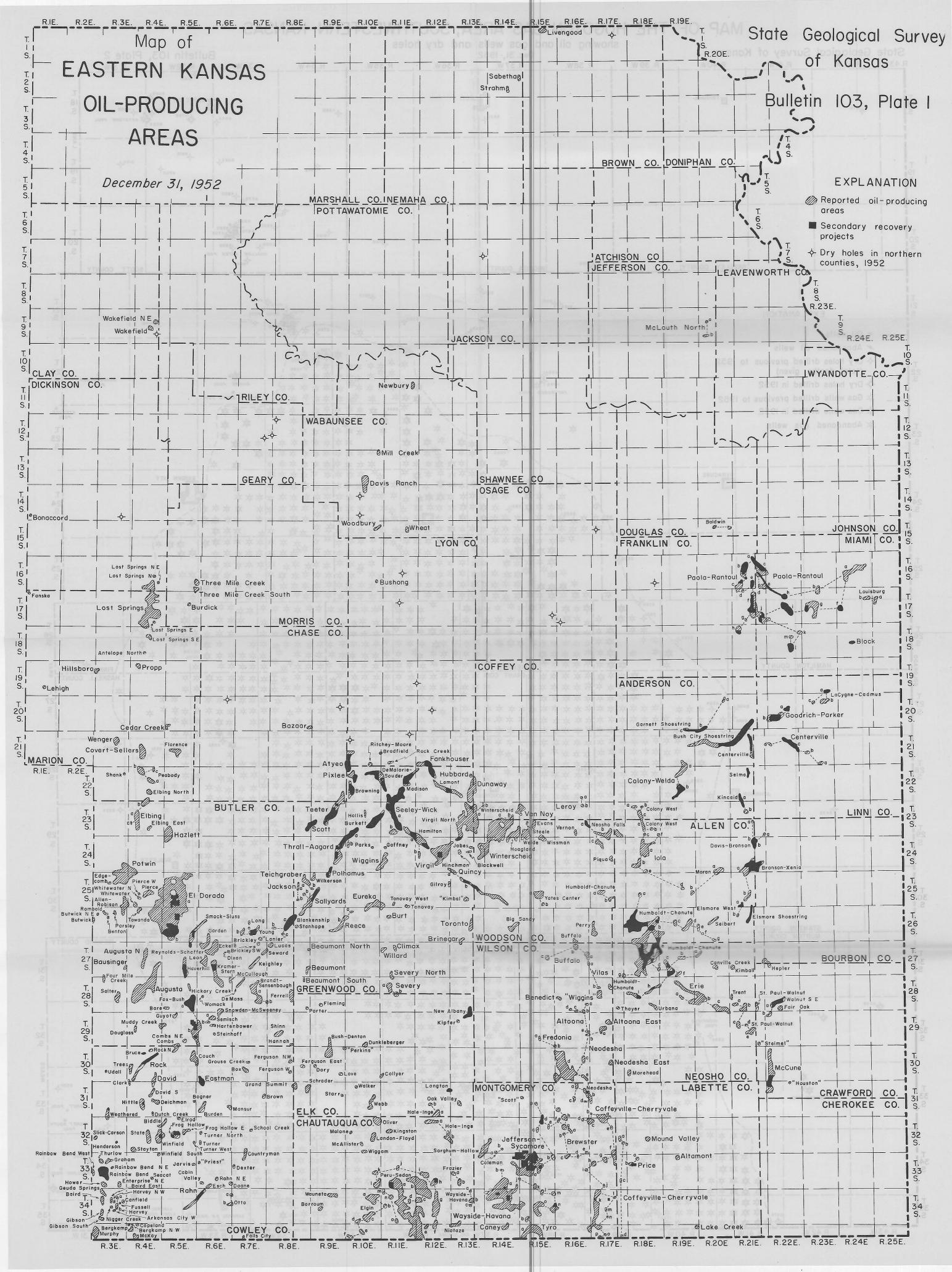
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MAP OF THE HUGOTON GAS AREA, SOUTHWESTERN KANSAS showing oil and gas wells and dry holes State Geological Survey of Kansas Dec. 31, 1952 Bulletin 103, Plate 2 R. 43W. R.42 W. R. 41W. R. 39 W. R. 38W. R. 37 W. R.36W. R.35W. R. 34 W. R. 32W. TRIBUNE SCOTT CITY LEOTI -05170 -¢-⁴⁸⁶⁰ 5630 -\$-3142 4770-4890 4670 5490 4500 4500 ÷3164 20 S. 20 _J5509 SHALLOW WATER POOL GREELEY COUNTY WICHITA COUNTY SCOTT COUNTY 2959 51551 - 6071 EXPLANATION 29004 J5040 · Oil wells Abandoned oil wells **** ♦ Dry holes drilled previous to 1952 (total depths given) 4945 SONDEREGGER Dry holes drilled in 1952 PATTERSON ☆ Gas wells drilled previous to 1952 A Gas wells drilled in 1952 \$ \$ \$ \$ STEWART ☆ Abandoned gas wells * 23 23 * * * * * 本本本本本本本本本本本 **** SYRACUSE GARDEN CITY 女 女 本 本 本 本 本 本 本 本 本 本 本 本 本 本 本 本 T. 24 S. 25 S. 25 本 本本本本本 本本本本本本本本本 * * 效 本章章本本本本本本本 * * * * * * * * * * * * * * * T. 26 S. * * * * * * * * * * * * * * * * 26 本本本本本 本本本本本 \$ BEYER 本 \ FINNEY COUNTY & HAMILTON COUNTY *********************** -**♦**-2865 28 JOHNSON E -\$= 432 29 T. 30 S. * 本本本本 STANTON COUNTY 本本 MORTON COUNTY SEWARD COUNTY * * * * * * * * * * 本章 卒 本/ RICHFIELD * * * 1 學 KISMET POOL 33 KISMET SOUTH KNEELAND POO LIBERAL - WHITE POOL LIBERAL SE POOL R. 43 W. R.42 W. R.32 W. R. 31 W.

State Geological	Survey of Kansas				DA	TA ON	SECON	DARY RECOV	ERY PRO	DJECTS	IN K	ANSAS,	1952	ATAO				20200	. <i>B</i>	Pulletin IO	3, Tabl	<u>'e /</u>
•• •1d	erator	ooj t	cation	Cooperative or unitized	ar started	lotal de- reloped acres	Possible addi- tional acres	oducing rmation	Thickness of producing zone, feet	v. depth to roducing one, feet	owing .	Active we	ells Lepo	No. producing wells drilled in 1952	No. active injection wells, 1952	No. injection wells drilled in 1952	Medium of injection	Source of water	Average bbls. water inject- ed per well per day	mulative scondary oil scovery per sveloped sre, bbls.	Production attributable to secondary recovery in 1952, bbls.	•0
្តុំ ដឹ	Mack C. Colt	ப் K. B. Project	27,28=24=21E	No No	1951	O.I. 36	300	ALLEN "Bartlesville"	COUNTY 18	700	<u> </u>	권 24	24	N N N	21	N % H	Salt water	ở ≱ Arbuo kle	4 % 0 Å	រ _, 674	68 2 *09	
Elsmore Shoestring do Elsmore West do	Fees & Hoyt Pavlicek Brothers Eureka Gas & Oil Co. Robt. T. Hansen	Elsmore Shoestring Young & Newby Farms Seastedt	3,4-26-21E 34-25-21E 7-26-21E 32-25-21E 32-25-21E	No	1941 1944 1950 1953 △	170	20	do do do do	28 17-27 16	700 730–750	-	48	48	2 - 0	53	8	Fresh & Arbuckle Salt water do do	Stream & well Mississippian ls.	33 - 20	2,370	46,000	3 4
6 Humboldt-Chanute 7 do 8 do	Deep Rock Oil Corp. M. P. Darby Hauser Oil & Gas Co.	Matson Group Humboldt Unit H. L. Hauser Farms	16,17,18,19- 26-18E 17,20,29,30- 26-18E 13-26-18E	No	1938 1952 1951	3 23 - 20	27	do - "Bartlesville"	25	800	156 -	°	156	1	138	0	Fresh water	do Stream		2,400	51,818	6
9 do 10 do 11 do	Jake L. Hamon Donald P. Oak Carl Weiner	Humboldt Unit do Humboldt Water Flood	15,16,21,22- 26-18E 4,5,7,8-26-18E 13,14,23,24-	with rest	1951 1951 1942	320	1,400	do - "Bartlesville"	15 15 - 25	820 875 - 825	-	- 114	- 114	- 11	117	13	Fresh water Salt water Salt water	Water from 850' Arbuckle Mississippian 1s.	50 15	1,100	3,560 - 50,575	10 11
Totals			26 -1 8E			949		ALLEN AND BOU	RBON COUNTIE	ES	156	215	371	17	341	34		tional secondary recovery	production		68,530 280,872	
12 Bronson-Xenia 13 Davis-Bronson	Davis & Crowder Mack C. Colt	Bucks-Clemmings M-T Project	26,34,35-24-21E 3,10,15-24-21E	0	1940 1937	38 51 04 19	:	"Bartlesville" do	14 45	690 650	0 I	088 004 083	200 200 200 200 700	il -pearling and		erīses, grīses sede, va, sede, va,	Salt water do Est	Arbuckle do imated secondary recovery	production	:	6,066	12 13
14 Humboldt-Chanute	M. F. A. Oil Co.	Yount-Davis	36-26-18E 1-27-18E	0	1947	-		ALLEN AND NEG "Bartlesville" ANDERSON	8	ES 800	888	08 09 88	240		-	21-53 21-53 21-53	la 200 Pingo 200	restroid original ori	Lingsayash b	-	05 05 05	14
15 Bush City Shoestring 16 do	Deep Rock Oil Corp. do Kewnee Oil Co.	Connelly & Loriaux Reed Group	5,8-21-21E 18-21-21E 13,14-21-20E 27,28,32,33-	No No	1943 1939	337 622 546	13 28	"Squirrel" do	20 20 25=30	600 650	145 259	0 4 41	145 263	0 2	137 253	0 0	Salt water do	Arbuckle do	and out cos	1,810	- ob	15 16
18 Centerville 19 Colony-Welda		Centerville Flood Stauffer-North Hyde	20-21E 4-21-21E 3,4,10,15,22- 21-21E 22-22-19E	Unit.		275	40	"Bartle sville" "Squirrel"	15	700-750	51	29	60	17	139	15	Arbuokle water	Arbuokle Mississippian ls.	99	1,671 488	100,000	17
20 do 21 Garnett Shoestring 22 Kincaid	do Brundred Oil Corp⊕	Unit No. 1 Garmett Shoestring	27,28,33-22-19E 31-20-20E 5,6-21-20E 1,2,3-21-19E	Unit. Unit.	1949 1936	320 296	20	do do	15 15 35	800 800 725	168	84 0	84 168	6 1	148	15 2	do do do	Arbuckle do Mississippian	25 25 mhaal = 11	211	8,148 30,624	19 20 21
23 Selma Totals	Texas Consolidated Oils Mack C. Colt	Texas Cons. Oils	29,32-22-21E 4,5-23-21E 4,9,10-22-21E	Sole owner	1946 1942	2,536	-	"Bartle sville" do	12 25	750	35 - 757	1 - 174	931	27	772	33	do do Estimated addit	Arbuckle do do ional secondary recovery	50 production	362	29,326	22
24 Sun City	Great Lakes Carbon Corp.	Sun City	27,28-30-15N		1950	250	0	BARBER	COUNTY	4,350	000	8.	8	0		0	Fresh water	Shallow wells at stre	am =	-	501,842	24
25 Blankenship 26 do 27 El Dorado	Franco-Central Oil Co. Sohio Petro. Co. Cities Service Oil Co.	Hughes Sallyards El Dorado Shallow Atkins	9-26-8E 9,16,17-26-8E 20,21,28,29-	Coop.	1951 1949 1951	80 140 566	0 0 1,863	BUTLEF "Bartlesville" do "El Dorado"	80 43 10	2,500 2,550 700	-	17 17 56	17 17	6 0	12 15	0 3	Salt water	Douglas Arbuckle	170	418 2,235	170,700	25 26
28 do 29 do 30 do	do do do	El Dorado Shallow Pierpont Firmey	25-5E 28,32,33-25-5E 4,9-26-5E	Coop.	1947 1950	721 20	974 65	do	10 24	700 2,550	00±	68 1	56 68 1	0 42 0	26 47 2	12 26 0	do do do	do	100 117 250	46 209 0	Danterella	27 28 29
31 do 32 do	Magnolia Petro. Co. Skelly Oil Co.	M. A. Koogler Water Flood No. 6 W. A. Page	17,18,19,20- 26-5E 21,29,30-26-5E 9-26-5E	Coop.	1948 1951 1950	980 148 30	460 300 0	do do "Wilcox sand"	25 - 30	2,500 2,600 2,550	0	102 61 3	102 61 3	42 8 0	59 6 1	17 3 0	do do do	Stream & Arbuckle Produced & Arbuckle Produced	175 300 151	1,600	262,801	30 31 32
33 Fox-Bush 34 do 35 do	do Magnolia Petro Co	W. E. Brown No. 129 † Warner Unit No. 136 North Fox-Bush Unit	25-29-5E 25-29-5E 23,24,25,26, 35-28-5E	No Unit.	1947 1944 1951	10 120 156	0 _ 864	"Bartlesville" do do	20 20 -	2,670 2,765 2,760	-	10 45	2 10 45	0 0	1 4 18	0 0 18	Fresh & produced salt Salt water do	Wreford ls., Neva ls. & produced Produced Arbuckle, Kamas City & Douglas	, 120	3,203 2,651	1,420	33 34 35
36 do 37 Haverhill 38 do	Morrison Prod. Co. Cities Service Oil Co. Morris Sitrin	Bush Lease & Fox Unit Haverhill	35,36-28-5E 1,2,11,12,13- 29-5E 22-27-5E 34-27-5E	Unit.	1942 1950 1952	830	1,100	do do	31 34	2,800	-	14	14	6	17	4	do Fresh water	Arbuckle Shallow wells	285	934	resultanian alatan	36 37
39 Kramer-Stern 40 Smock-Sluss 41 do 42 Young	The Texas Co. L. A. Seidenfield The Texas Co. El Dorado Refg. Co.	Tabing R. E. Sluss C. A. Smock Young "B"	28-27-6E 25-26-5E 2-27-5E 27-26-7E	No	1952 1951 1951 1952	80 40	60	"Bartlesville" do	35 15	2,760 2,650	0	1 6	1 6	0 0	1	- 0 0	Salt water do	"Bartlesville sand" do	103	35	1,411	38 39 40 41 42
Totals 43 Blankenship		Blankenship	0 10 16 17	Coon	1040	3,921	-	BUTLER AND GREE			0	403	403	104	210	83		tional secondary recovery	Sarbara Dil C		154,555 1,708,523	
44 Peru-Sedan 45 do	Sinclair Oil & Gas Co.	A. Casement	9,10,16,17, 21-26-8E	Coop	1949	210	60	"Bartlesville" CHAUTAUQU "Peru"	25	2,450 1,150	# ON S	49	49 0081 1383	6	43	5	Salt water		150	1,915	346,100	43
46 Bruce	G. B. & C. E. Suppes Shawver Petro. Corp.	Suppes Davis	27-34-12E 9-30-4E	0	1952 1952	20	220	COWLEY	25 COUNTY	1,100	8.00	16	16	2	4	4	Salt water	*Peru sand*	35	•	0	45
47 Eastman 48 Frog Hollow 49 Hittle 50 Rahn	The Texas Co. The Carter Oil Co. The Texas Co. B. B. Blair	Eastman gas repressuring Frog Hollow Pilot Flood Layton Flood Rahn	31-30-6E 6-31-6E 16,20-32-5E 21,28,31-31-4E 6,7-34-6E	Coop.	1929 1952 1945 1951	413 70 30	- 110 0	"Bartlesville" do "Layton" "Bartlesville"	13.5 13 9.8 25	2,850 3,050 2,400	· ·	19 5 2	19 5 2	0	8 2 3	0	Gas & salt water Salt water do	Arbuckle	21 5 M cu.ft. 122	0	15,162 0 3,995	46 47 48 49
51 do 52 Rainbow Bend 53 do	Continental Oil Co. Mead Production Co. Sunray Oil Corp.	Rahn Unit Hunt Rainbow Bend	12,13-34-5E 14,22,23-34-5E 16-33-3E 16,17,20,21, 28-33-3E	Coop.	1952 1952 1952	374	200	"Bartlesville"	- - 29	3,000	- 0	- - 40	- - 40	- 0	- - 14	0 - - 16	Water Gas, salt & fresh	Well River sand water &	300 - - 385	0 - 47	17,400	50 51 52 53
54 Rock 55 .do 56 Weathered	Cooperative Ref. Assn. Stelbar Oil Corp., Inc. Frost & Bennett	Rock Unit No. 1	11,12-30-4E 11,14,15,16- 30-4E	Unit.	1951	40 400	20 360	do d o	14 20	2,705	-	5 24	5 24	0	3 10	o 2	water Brackish fresh water Fresh water	produced Sand about 900' deep Sand about 900' deep & sand at 1,900'	8.8 200	0	000,68	54 55
57 Winfield 58 do Totals	Gulf Oil Corp. Sinclair Oil & Gas Co.	Weathered M. Shannon Winfield	28-31-3E 24-32-4E 24-32-4E	Coop.	1946 1948 1948	15	65 -	"Stalnaker" "Bartlesville" do	5 38 20	2,100 2,980 3,000	-0	3 -	3 -	0 -	1	0	Salt water do do Estimated addit	"Stalnaker" "Layton" & produced Produced Sional secondary recovery	221 production	800	2,900	56 57 58
59 McCune	Donald P. Oak	McCune Unit	31-30-22E 6-31-22E	01	1952	-		CRAWFORD	COUNTY	_		104	104	1	4 5	18		all bools and	ing lieseth		229,046	59
60 Walnut Southeast 61 do	Deep Rock Oil Corp. E. M. Marshall	Walnut Westhoff, Foster & McDaniels	1-31-21E 1-31-21E 28-28-22E 29,31-28-22E		1951 1941	i-	01-	"Bartlesville" do	12 30	385 375	03.5	eng.	- 1401		- 365	-H-11.0	Salt water Salt & fresh water	Arbuckle Stream & Arbuckle mated secondary recovery	production	-	19,572	60 61
62 Longton 63 New Albany	Union Gas System, Inc. A. E. Basinger	†Gardner Pool New Albany	1,12-31-12E	No	1947	53	-	ELK CO "Longton shallo sand"		570	o	0	0	0	0	0	Fresh water	Shallow wells	35	374	1,720	62
Totals	004	NOT Albany	3,4-29-13E 33,34-28-13E	_82	1937	53		"New Albany"	20	625	-	910,2	-		-		Estimated addit	ional secondary recovery	production	-	15,322 17,042	63
64 Paola-Rantoul. 65 do	Barnett Oil Co. Brundred Oil Corp.	Harley-Finch Group No. 3	10-17-21E 4,8,9,16,17, 20-16-21E	No Unit.	1949 1950	75 201	85 0	FRANKLIN "Squirrel" do	15 30	600 640	0 5	21 69	21 74	5 36	25 63	7 4	Fresh & produced Salt water	Stream & produced Mississippian	4 0	560 -	23,607	64 65
66 do 67 do 68 do Totals	Deep Rock Oil Corp. do Williams Oil Co.	Heminger-Finch Johnson Group Rantoul Flood	20,28,29-16-21E 27,34-16-21E 7,8-18-21E	No No No	1951 1948 1949	144 120 254	16 20 ?	do do do	25 25 16	7 00 650 620	43 34 42	2 14 7	45 48 49	10 0 12	57 52 49	0 0 14	do do Fresh water Estimated addit	Arbuckle do Surface water (lakes) ional secondary recovery	- 18 production	330 1,220 265	31,629 27,028 27,648 267,965	66 67 68
69 Paola-Rantoul	Brundred Oil Corp.	Group 7	10,15,22,25,26,	Unit.	1943	794 681	0	FRANKLIN AND M	IAMI COUNTII	ES 650	268	113	237	63	246	25	Salt'& fresh water	Stream & produced	gçidê herî		377,877	165
70 do Totals	Sack-Brundred	Flood 3	35-17-21E 3,10,11,13,14, 24-16-21E	Unit.	1951	74 755	187	do	30	650	0 268	42	42	19	38 273	24	Salt water	Arbuckle	o to others	•	and the state of t	70
71 Atyeo 72 Browning	Cities Service Oil Co. Sinclair Oil & Gas Co.	Atyeo Browning Unit	6-22-10E 19,20,29,30- 22-10E	Coop. Unit.	1952 1949	120 170	0	GREENWOOD "Bartlesville" do	COUNTY 39 51	2,240 2,300		16 70	16 70	0	14 17	14 0	Salt water Fresh & salt water	Arbuckle Douglas & stream	125 238	713 117		71 72
73 Burkett 74 DeMalorie-Souder	Phillips Fetro. Co. L. B. Campbell Cities Service Cil Co.	Burkett Derbyshire	22=10E 13,23,24,26, 27=23=10E 18=23=11E 13=22=10E	Unit.	1952	40	35	do	38 30–49	2,100	-	86	86 3	0	63 1	0	Salt water	Douglas Producing wells	150	6,910	* Tall-Duras	73
75 do 76 do 77 do	Cities Service Oil Coe Mid-Continent Petro. Corp. Phillips Petro. Co.	DeMalorie-Souder	19,30-22-11E 18-22-11E 1,2,11,12- 22-10E	Unit.		56 160 398	0 0 350	do do	30 25 55	2,050 2,100 2,100	-	5 9 43	5 9 43	0 1 0	5 7 24	1 1 0	do Fresh & produced salt water Salt water gas	Verdigris R. & produce Douglas do		160 610 720	9,000	74 75 76
78 do 79 do 80 Fankhauser 81 do 82 do	do George Sheehan Cities Service Oil Co. Sunray Oil Corp. do	Pix J. D. Clopton Fankhauser "A" Fankhauser Unit Swanson Unit	3,10-22-10E 18-22-11E 4-22-12E 4-22-12E 9-22-12E	Unite Coope Coope Unite Unite	1949 1952 1950 1949 1950	25 - 70 246 62	0 0 0 0	do do do do	55 15 24 24 25	2,100 2,100 1,760 1,900 1,850		3 4 5 27 5	3 4 5 27 5	0 0 0	2 4 3 20 4	0 3 0 0	Salt water Fresh water Salt water do	do do Produced Douglas & produced	140 295 260	2,300 1,920 4,160	26,000 137,100	78 79 80 81
83 Hamilton 84 do 85 Lamont	Associated Resources Corpe Cities Service Oil Coe do		8-24-12E 36-23-11E 24,25,26-22-12E	Coop.	1951 1947	30 200 507	50 0 163	do do do	12-20 54 42	1,700 1,780 1,650	-	5 4 29 54	5 4 29 54	0 0 0	1 20 40	0 1 0	do do do	do Douglas Stream, produced, & Douglas Verdigris R. & Douglas	370 80 200 180	6,150 1,025	14,000 2,000 89,000	82 83 84 85
					95					0 June 19	ada ad s	oos oegaā 🕹			E 7885°							

State Geologic	al Survey of Kansa	75		DA	A ON SE	ECONDA.	RY RECOVERY	PRO IFOT					*, *							
51d	rator		rlon	perative	started de-	acres	acres	of.	2 ا	KANSAS		2, conc		ive	ls, 1952 injection ls drilled	of on	ઌ	bbls. ject- ell	Bulletin	ls. on able lary in ls.
No.	Ö,	Proj	Locat	Coope	Year Total	velope	다. 12 전 12 12 12 12 12 12 12 12 12 12 12 12 12	Thickness producing zone, feet		Flowing	Pumping	Total	No. producing wells drilled	No. active injection	Wells, Wells d	Medium injecti	Source	Average bbls water inject ed per well	Cumulati secondar recovery developed	acre, bbl Productio attributa to second recovery: 1952, bbl.
86 Madison 87 do 88 Pixlee 89 Polhamus	Cities Service Oil Co Magnolia Petro. Co. Barbara Oil Co. Sohio Petro. Co.	Madison Kipfer-McGilvary Browning-Pixlee Polhamus	11,12,14-2 11,12-22-1 8,9,17-22-	IE Unit.		35 00	GREENWOOD GO 55 "Bartlesville" 0 do 0 do		nued 1,890 1,800 2,300	- 5	38 6 18	3 38 6 6	1	31 6	8 0	Salt water	Verdigris R. & Arbu Dougles	ckle 235 250	365	175,000 86
90 Quincy 91 Sallyards 92 do	Alf M. Landon Ohio Oil Co. do	Geo. F. Webber Water Flood Ladd Unit	27,34-24-9) 4-25-9E 9-25-13E 19,30-25-91	Coop.			0 do - do	34 20	2,256 1,500	-	30			5 32 2	0 1	do do Fresh water	do do 186º water well	300 125	1,650	149,753 87 20,000 88 230,000 89
93 do 94 Scott 95 Seeley-Wick	do do Phillips Petro. Co. Cities Service Oil Co.	Ladd "A" Hoffman Scott Clopton	19,20-25-91 30-25-9E 24,25,26-2: 19,30-23-91	No No No No S-SE Unit.	1945 20 1951 7 1951 5 1945 20	9 55	0 do 10 do 0 do 100 do	51 41 41 40	2,400 2,400 2,400 2,600		24 8 9 39	34 8 9 39	0 1 0 0	31 5 6 11	2 0 0	Salt water do do do	Douglas do do	175 165 140	4,450 326 902	63,025 91 23,606 92 40,448 93
96 do 97 do 98 do	Magnolia Petro Coe Phillips Petro Coe do	Seeley Beal McGilvary	8-23-11E 4,5,6,9-23- 21,22,27,28 23-11E 8,9,16,17-2	llE Unit. Unit.	1946 26 1943 55 1950 21	5 4 2	0 do 0 do 235 do	32 - 55	1,975 1,950 1,900	-	26 63 56	26 63 56	1 0 0	21 60 22	0 0 15	do do do	Wells at 850° & prod Douglas do	360 iuced 150 217 500	2,650 2,830	* 94 62,000 95 158,000 96 * 97
99 do 100 do	do do	Seeley-Wick York, DeMalorie & O'	11E 28,33-22-11 4-23-11E	E Unit.		5	0 do 40 do	37 37 47	1,950 1,950 1,950	-	30 24	30 24	2 0	8 19	o o	do	do	350 150	960_ 2,000	* 98 * 99
101 do 102 do 103 Teeter 104 do	do Skelly Oil Co. Cities Service Oil Co. Kirkpatrick & McGuire	York-Wescott Wick Teeter Refiners Oil-Morris-	33-22-11E 22,27,34-22 10,15,16-23 20,21-23-9E	-11E Coop. -9E Unit.	1943 80 1943. 50 1947 696 1951 56	3) 4	0 do 70 do 40 do	30 20 37	2,000 1,975 2,500	-	34 10 40 47		0 0 0 16	10 14	0 0	do do	do do 1,000' salt water se	220 40 and 253	7,010 2,070 697	* 100 * 101 94,421 102
105 do 106 do 107 Thrall-Aagard 108 do	Ohio Oil Co. Skelly Oil Co. Arkansas Fuel Oil Co. Ohio Oil Co.	McGinnis †Shambaugh do E. Marshall	2-23-9E 2-23-9E 1-24-9E	Coop.	.951 50 .944 30 .944 84)	86 do O "Bartlesville"	36 - 45	2,550	-	4 - 3	4 - 3	1	31 2 - 1	13 1	Salt & fresh w Salt water	ater Lake, produced, & Ar Douglas	buckle 192 228	355	100,000 103 0 104
109 do 110 do 111 do	do Fhillips Petro. Co.	Martindell Olson-Anderson Aagard	31-23-10E 6-24-10E 11-24-9E 14-24-9E	No :	948 366 944 98 937 48		0 do do 0 do 0 do	37 50 42 40	2,300 2,300 2,200 2,100	2	10 42 8	10 44 12	0 0	5 34 7	1 5	do do	Salt water sand 1,200' salt water sa Arbuckle Douglas	490 nd 206 183 285	2,623 3,508 3,335 6,413	8,700 106 56,150 107 341,261 108
112 do 113 do 114 do	do do Sinclair Oil Gas Co•	Gard Lewis & Cannon Thrall-McKee	101; 26-23-24- 14,22,23-24- 11,12-24-9E	9E 100 % property Unit.	938 110 945 80	78	0 do	35 70 50	2,300	-	16 16	16 16	0	1 11 9	0	do do	do Arbuokle Douglas	100 400 200	7,700 810 8,080	24,417 109 * 110 * 111 * 112
115 Virgil 116 Virgil North 117	Alf M. Landon Sunflower Drilling Co.	Hamilton Leases Water Flood Fee	28,29,30,32, 23-10E 15,16,21,22- 24-12E 5-24-13E	- 1 1	949 644 951 30	16	O do	31 20	2,300 2,300 1,615	08	11 80 33	11 80 33	0 2 5	9 62 3	0 0 2	do Fresh & salt w Salt water	do ater Douglas & surface por Arbuckle & Douglas	190 nd 230	6,830 2,340	* 113 806,000 114
Totals	Joe Phillips	Young	10-23-13E		9,076		087 01 007 25	And Ive	de la c	21	1,091	1,112	42	717	-	- Estimated ad	ditional secondary recovery	production	:	1,500 115 - 116 - 117 221,349
118 Quincy	Layton Oil Co.	Quincy Flood	14,15-25-13E	1	950 50	40	GREENWOOD AND WO	OODSON COUNT	1,500		BES		±6	713	70	Salt water	Arbuckle	sico .o xa		4,528,863
119 Price	Veeder Supply & Develop ment Co.	- Labette County Flood	7,8=33=18E	Unit _e 1	52 30	70	LABETTE O "Bartlesville"	COUNTY 15-25	600	-	17	17	. 12	8	8	Fresh & salt wa	ter Mississippian ls. &	40	r0	- 118
120 Centerville 121 Goodrich-Parker	Fell & Wolf Oil Co. Deep Rock Oil Corp.	Group 6	10,11,13,14, 24-21-22E		36 250	480	LINN C	OUNTY	on 180		08 09/ 338	100 9 H 120	f squo	10 B-	28-49- 1,56,17-28 20,81,48,2		shallow sand		4	- 119
122 do 123 LaCygne-Cadmus	Ohio Oil Co. Deep Rock Oil Corp.	Goodrich Group †Parker-Goodrich LaCygne Group	19,20,21,29, 30-20-22E 15,16-20-22E 34,35-19-23E 2,3-20-23E		44 183 - 42 80	17 - 60	053,8	20	600 - 240	85 - 34	10	95 38	2	99	2	Salt water	Arbuckle	ob ob	1,840	- 120 32,639 121
Totals			2,3-20-235		513			Throne was	07212	119	14	133	20	140	10	Salt water Estimated add	Arbuckle	-	810	10,432 123 15,304
124 Atyeo 125 do 126 Fankhauser Totals	Barbara Oil Co. Ohio Oil Co. Phillips Petro. Co.	Jones Flood Atyeo Lauck	30-21-10E 30,31-21-10E 32,33-21-12E	Coop. 19 No 19 100% 19	17 280	50 0 0	do	30 35 25	2,200 2,200 1,950	1 2	4 37 7	5 39	0	3 24	0	Salt water do	Arbuckle do	350 205	2,390 4,110	58,375 * 124
127 Graber 128 do	Cities Prod. Corp.	Graber Pool	31,32-21-1W	property Coop. 19	410		Mophers on			3	48	51	0	33	1	do	Douglas	200	2,420	* 125 * 126 212,108
129 Jenday	Continental Oil Co. Barbara Oil Co.	do Wedel-Smith	20,29,32-21-1W	N 19	7 1,400	30 0 530	"Hunton lime" do Mississippian	16	3,250 3,200	-	4 63	4 63	0	1 21	0 0	Fresh water $\operatorname{Fresh}[\& \ \operatorname{salt} \ \operatorname{wat}]$	Shallow well er Shallow wells, Lansing Kansas City lime, & produced	100 - 242	760 - 920	23,000 127 665,411 128
Totals 130 Blook	erī ost	nitera Lennide			1,660		MIAMI CO		2,980	0	67	67		22	- 0	Salt water	Kansas City & Mississi pian ls.	p	-	- 129 688,411
131 Paola-Rantoul 132 do 133 do	J. E. D. 011 Co. Andrus & Bryner Deep Rock Oil Corp. do	Windler Andrus & Bryner N. Y. K. No. 2 & Seabor Producers Group	18-22E	Coop. 198 No 194 No 194	7 40 4 290	200 0	"Squirrel" "Peru" Hepler	16 15 25	490 380 410	15 96	9 4 1	9 19 97	0 2 0	4 22 107		Fresh water Salt water do	Pond Mississippian 1s. Arbuckle	20 25	2,000	- 130 9,125 131
134 do 135 do 136 do	Hart & Buster Sack-Brundred	R. I. Nicholson Farm Flood No. 1	15,16,21,22,23 26,27-17-22 10-17-22E 31-16-22E; 23, 25,26,36-16-21	E 195 Unit. 194	1 -	618	"Peru" "Squirrel" do	20 35 30	420 600 670	196 - 97	0 19 17	196 19 114	0 4	195 2 91	0	do	do	38	570 -	31,348 132 63,693 133 - 134
137 do 138 do Totals	do The Spearow Co. E. A. Whitworth	Flood No. 2 Spearow Field Whitworth & Walsh	5,6,8,9-17-22E 14-18-22E 19-17-24E			225	do "Peru" Bandera Quarry	30 - 20	670 - 320	50 - 18	50	100	36	88	1 - A	do ir resh & return	do do Stream & Hertha 1se	Control of	-	- 135 - 136 - 137
139 Caney	Alpine Oil & Gas Corp.	Roper Farm	74 74 14D		1,293		MONTGOMERY	COUNTY	and the second	472	103	575	42	518	1	Estimated add	itional secondary recovery	15 production	150	2,000 420,893 527,059
140 Coffeyville-Cherryva 141 do 142 Jefferson-Sycamore 143 do 144 do	do Gee Bee Oil Co. Kirkpatrick & McGuire	Plute-McGuggin Reiter Harvey Speed Recovery, Inc.	34-34-14E 7-34-17E 9,10-34-17E 13-34-15E 22-33-15E	No 195 194 194 No 195 No 195	160	240	"Bartlesville" "Peru" do "Wayside"	20 - 15	1.278 - 375		8 - 6	8 - 6	2	2	- F	alt water resh water alt water	Big Salt City of Coffeyville Arbuckle	28	-	- 139 - 140 - 141
145 do 146 do 147 do	do Sohio Petro. Co. Stekoll Petro. Co.	Radical Jackson Flood Bolton Bolt	2,3-32-15E 34-31-15E 10,15-33-15E 16,17-33-15E	1946 No 1946	185 165 360	O Yes O	"Bartlesville" do do do	18 1	1,153 1,000	27 18	4 11	38 18	4 0 0	1 48 0	0 0 S:	resh water do alt water resh water	Shallow sand City of Independence Arbuckle City of Independence	22 42 40	1,314	- 142 * 143 243,156 144
148 Neodesha	Layton Oil Co.	Flood No. 11	36-32-14E; 31, 32,33-32-15E; 1,2-33-14E; 4, 6,7,8,9-33-15E 12-31-16E				do		1,175 1,200	18 315	9	27 334	0	45 343	0 8	alt water resh & return	Arbuckle City of Independence	155 50	950 1,272	11,529 145 35,000 146 * 147
149 Wayside-Havana 150 do 151 do	Alpine Oil & Gas Corp. Consolidated Gas, Oil & Mfg. Co. do	Lawler Farm Flanagan Nos. 1 & 2	34-33-14E 10,11-34-14E	No 1949	56 10 105	- 110	do "Wayside" do	10 26 22	915 836 637		9 18 30	10 18 40	10 0	12 2 27	0	alt water do alt & fresh water	Arbuckle Big Salt & return salt water	30 23	:	6,263 148 - 149
152 do 153 do 154 do	do Forrest Oil Corp. W. N. White	Bell Nos. 1 & 2 Shinn Flood No. 13 W. N. White Fee	10,11-34-14E 11-34-14E 4,5-34-14E	1944 1945 No 1939	47 40 56	50 60 -	do do do	22 22 20	637 636 675		14 26 21	20 26 28	0 0 0	12 13 11	0	do do lt water	do do Streams, Big Salt, & oil	22 11 14 10	2,266 999 1,873	16,934 150 5,732 151 9,110 152
Totals		GOODE LACOISING BOSANIESE	10-34-14E	No 1943	2,916	220	do 11	18	630		.92	17 594	23 8	9	0	do Estimated addi	sands 230' salt sand tional secondary recovery p	20	-	* 153 4,151 154 38,525 543,736
155 Erie 156 Humboldt-Chanute 157 do	Edwards-Purviance Belleair Oil Corp. Keas Drilling Co.	Edwards-Purviance Weiner Keas	15,19-28-20E 4-27-18E 3,4,9,10,15,16-	1949 1952 1939	10	80 - 65	NEOSHO COU "Bartlesville" do do	25 18		-	17	17	1 _	4		esh water It water	150' Mississippian ls.	100	-	- 155
158 do 159 do 160 do 161 do 162 do	Kirkpatrick & McGuire do M. F. A. Oil Co. Pioneer Corp.	Don George-Wells Project do - Eastern Kansas Flood 1	27-18E 6,7-28-19E 14-27-19E 28,32,33-27-19E 20,29-27-19E	Coop. 1952 Coop. 1952 1938 Coop. 1951	10 15		đo đo đo	35 30 15	750 825	-	95 10 12	10 12	3 2	1 2	O Sa	lt & fresh water lt water do	Gravel wells & return water Mississippian ls. do	50 72 116	Los	- 156 129,404 157 - 158 - 159
162. do	Skiles Oil Co.	Converse	1,2,10,11,12,14, 15,22,23,27-27- 18E; 6,7-27-19E 21-28-18E	Both 1938	29 980 -	300 300	do do	18-22		5 172	9	14 472		12 80	5 21 Fre	do do esh water	Arbuckle Lower Arbuckle Stream	24 32	3,700	- 160 6,795 161 257,687 162
Totals				0 , 00	1,329	202	PRATT AND KINGMAN			510 14	13	653		87 2	Fre	sh water Estimated addit:	Well onal secondary recovery pro		W	75,738 469,624
164 Cunningham	Skelly Oil Co.	Cunningham press. main.	19,20,29,30,31- 27-10W; 25,35, 36-27-11W	Coop. 1936	1,400	0	Lansing 1s.		745	- 6	31	61	0	5	O Gas		lend plant, plant 5	615 M cu.ft.	1,172	100,995 164
165 Zenith-Peace Creek	Cities Service Oil Co.	Peace Creek	12=23=10N	Coop. 1951		1,000	RENO COUNT	10 3,	7 50	di or	3	3	0	1_00,00	O Sal	t water	Produced water	560	85	3,400 165
166 Hall-Gurney	Stanolind Oil & Gas Co.	F. Krug "A" Water Flood	27-14-14W	1952	160	80	RUSSELL COUN Lansing-Kansas City SEDGWICK COU	16 3,0	000	61	6	6	0	0	3 Sal	t water	Dakota		•	- 166
167 Robbins 168 do		Henry Robbins Robbins Field Water Flood		1945 1947	80 220	0 0	Mississippian ls. Mississippian "chat"	- 3.1		0 10	6 0	6 10	0	2 4	0 Salt 2 Salt	t water	Produced with oil Shallow sand and Missis-	48 325	- 34 6	13,691 167 13,042 168
169 Wellington	Cooperative Ref. Assn.	Wellington Field Unit		Unit. 1951	60	2,130	SUMNER COUNT	20 3,6	350	. 13	5 1		0 :				sippian "chat"		1,666	
170 Neosho Falls	Susmio Oil Co.	Maynard, Remlinger, Wolfe	24-23-16E	No 1952	80	?	WOODSON COUNT		40 .	19)]		0 1:	1 () Salt	water	Kansas City Is.			- 170
* Production not to be revea	aled; included in county total.	†Abandor	ned during 1952.		300	start Ji	une 1953.		-	0 . 16			0 6	~	•		Promaj	ol .		26,733
The to a contract of																				