#### STATE GEOLOGICAL SURVEY OF KANSAS

FRANKLIN D. MURPHY, M.D.
Chancellor of the University, and ex officio
Director of the Survey

FRANK C. FOLEY, Ph. D. State Geologist and Director

## **BULLETIN** 112

# OIL AND GAS DEVELOPMENTS IN KANSAS DURING 1954

Вy

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



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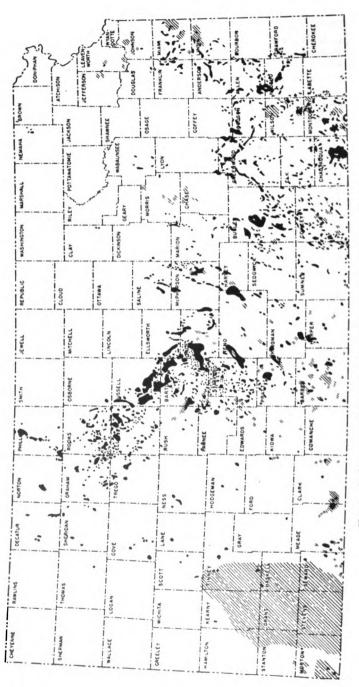


Fig. 1.—Index map of Kansas showing oil and gas producing areas.

# OIL AND GAS DEVELOPMENTS IN KANSAS DURING 1954

By

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

## **ABSTRACT**

Kansas oil production in 1954 totaled 118,309,260 barrels, a new high in annual production. In value the 1954 output of crude oil increased to \$333,632,113 from \$307,632,164 in the preceding year, partly because of price but mostly because of increased production.

Natural gas production in Kansas totaled 405.8 billion cubic feet (14.65 psia); the Hugoton Gas Area produced 346.7 billion cubic feet, 85.4 percent of the State's total.

During the year 122 new oil pools and 22 new gas pools were discovered; 2 previously abandoned oil pools and 2 gas pools were revived.

The discovery of new oil pools in Morton, Harper, Haskell, Kingman, and Sedgwick Counties highlighted the year's exploration. The continued development of the Greenwood Gas Area in Morton County was significant.

In 1954, 4,768 wells were recorded drilled in 93 Kansas counties in connection with the petroleum industry. Of the recorded completions, 2,326 were oil wells, 362 were gas wells, 1,876 were dry holes, and 204 were saltwater disposal wells or wells used as input wells in connection with secondary recovery operations. Of the 1,876 dry holes, 509 were wildcats. Estimates of wells not specifically reported bring the total number of wells drilled in the State during the year to 8,514.

As in 1953, Barton County, with a production of 16,353,520 barrels, was the largest oil-producing county. Russell and Ellis Counties, ranked second and third, each produced more than 11 million barrels. The Trapp field of Russell and Barton Counties was again the top-ranking field of the State with production of 5.4 million barrels of oil in 1954. The State's top six oil fields—Trapp, Kraft-Prusa, Hall-Gurney, Chase-Silica, El Dorado, and Bemis-Shutts—accounted for 21 percent of the total annual production.

In 1954, Kansas produced 193.8 million gallons of natural gas liquids valued at more than 11.7 million dollars. Proved reserves of natural gas liquids are more than 175 million barrels.

The proved reserves of Kansas crude oil at the end of the year were 978.5 million barrels, or 7.1 percent greater than last year's estimated reserves. Proved reserves of natural gas are about 15.8 trillion cubic feet.

Production from secondary recovery projects in Kansas accounted for 10,148,676 barrels of oil during 1954. A total of 5,852 producing wells and 4,339 injection wells was reported during the year. Greenwood County, which had 4,035,352 barrels, led all other counties in the amount of oil produced by secondary recovery methods.



#### INTRODUCTION

During 1954 several new records were established in the Kansas petroleum industry. New highs were established in crude oil production, proved reserves of liquid hydrocarbons, value of crude oil production, and value of natural gas production. Because of an increase in production of crude oil and increases in prices of both crude oil and natural gas the dollar value of these resources exceeded all previous records.

Eighty Kansas counties have produced or are producing oil or gas. No additions were made to this total during 1954; however, significant new developments occurred during 1954. Stimulating the development in southwestern Kansas was the discovery of Morrowan oil production (Morton County) below the Greenwood Gas Area, and the finding of Topeka limestone and Toronto limestone gas production (Seward County) and Mississippian oil production (Haskell County) below the Hugoton Gas Area. The first Arbuckle oil production was reported from Scott County. There was continued development in the Greenwood Gas Area, Kansas's second largest gas field.

Highlighting the 1954 activity along with these developments was the discovery of sizable Mississippian oil fields in Harper and Kingman Counties, and in southeastern Sedgwick County. Continued development in Pawnee and Pratt Counties was significant.

In some eastern Kansas counties the continued success of hydraulic fracturing was a factor in the revival of drilling and the increases in production figures. In Cowley and Sumner Counties several new "Bartlesville" and "Layton" zones were opened.

Stafford County, which had 15 oil pools, led all other counties in number of new pool discoveries. Other counties with a large number of new pool discoveries are: Barton 12 oil and 1 gas; Ellis 10 oil; and Harper 7 oil and 2 gas.

Crude oil production reached a new high in spite of fluctuations in the prorated monthly allowables which were due to the lack of market demand and the accumulation of an excessive amount of crude above ground.

Natural gas production decreased 3.5 percent from the 1953 high, and the production of natural gas liquids decreased 8.4



percent. Proved reserves of natural gas declined only 0.2 percent, but proved reserves of natural gas liquids declined 1.4 percent. Kansas consumption of natural gas (as a percentage of the production) rose to a new high of 66.4 percent.

Figure 1 shows in a general way areas in Kansas within which there is production of oil or gas or both. The map shows county relations and also gives 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 1954, 118,309 thousand barrels, is 3,919 thousand barrels more than the 1953 figure and represents a new high in total annual oil production. The 8.5 percent increase in value of crude oil from 307.6 million dollars to 333.6 million dollars is due to two factors: an increase in oil production and an increase in the average price of crude from \$2.689 per barrel in 1953 to \$2.82 per barrel during 1954.

Natural gas production during 1954 decreased 3.5 percent from the previous high year (1953) to 405.8 billion cubic feet calculated at the base of 14.65 pounds per square inch absolute. The value of natural gas as estimated by the Kansas Corporation Commission rose from \$37,680,408 in 1953 to \$44,642,618 in 1954, an 18.5 percent rise in the value which is accounted for entirely through an increase in the estimated average price paid by the pipe-line companies during the calendar year. Effective January 1, 1954, a new minimum price of 11 cents per thousand cubic feet measured at 14.65 pounds per square inch absolute was established by the Kansas Corporation Commission for the Hugoton Gas Area which produces more than 85 percent of the State's total production. This minimum price has been applied to all Kansas gas production, including minor amounts of unprorated production much of which probably brought a higher price. The estimated price of gas during 1953 was 9.5 cents per thousand cubic feet (16.4 psia first 6 months and 14.65 psia second 6 months).



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TABLE 2.—Petroleum data table showing percentage changes for Kansas and the United States, 1953-1954

	Kansa 1953	Kansas figures	Kansas percentage change	States percentage change
Crude oil production (barrels)     Value of crude oil produced     Kansas crude production as percentage of U.S. total	114,390,176- \$307,632,164	118,309,260 <sup>1</sup> \$333,632,113	++-	4.2
	\$2.689	25.25 28.28	? + :	
	1,091,069²	5th 1,153,646²	+ 5.7	+12
8. Oil producing area of "western Kansas" counties (acres) <sup>3</sup>	9.5:1 650,262	9.8:1 702,540	* 6 * 6 * + +	
	420,588,3834	405,841,9874	         	-2.0
11. Production of natural gasoline and LPG (natural gas liquids), gallons	211,656,6481	193,782,498	8 4	9
	15,787,602	15,758,332	0.2	10
	37.4:1 2,611,530	38.8:1 2.617.260	++	
<ol> <li>New oil and gas pools discovered</li> <li>Recorded well completions in Kansas</li> </ol>	187	144		
Oil: Gase	2,273 380	2,326		
Dry Salt-water disposale Unrecorded, estimated	2.151 343 667	1,876 204 3,7461º		
Total recorded and estimated Wildcats and discovery wells (included in above total)	5,814	8,514		
Figures supplied by Kansas Corporation Commission, Conservation for 18 Division.  Prigures from American Petroleum Institute and American Gas Association, 1934. Barrels have 42 U.S. gallons and gas is based at This sociation, 1934. Barrels have 42 U.S. gallons and gas is based at producing the performance of "western Kansas" is taken to include all of the Counties west of the Cowley-Butler-Marlon-Dickinson of County tier.  Figures supplied by Kansas Corporation Commission, base 14.65 prists at the well head established by order of the Kansas Corporation Commission for the Hugoton Gas Area effective January 1. Miam	1854 has been applied for 1853 was 9.5 cents and 14.65 pais. second and 14.65 pais. second products that reflect will omitting revived pools. Includes pool wells and Includes salt-water disp. wells. Counties for which num part estimated include Coffey, Crawford, Ell. Miami, Montgomery, N.	1854 has been applied to all Kansas gas production. The estimate for 1853 was 9.5 cents per M cubic feet (16.4 psia. first 6 months and 14.65 psia. second 6 months.)  This aggregate figure is based on unit values of the several products that reflect wholesale prices at the plant.  Omitting revived pools.  Includes pool wells and new discoveries.  Includes salt-water disposal and recorded secondary recovery input wells.  Occurred to which number of wells drilled in 1954, are all or in part estimated include Allen. Anderson, Bourbon, Chautauqua, Coffey, Crawford, Elk, Franklin, Greenwood, Labette, Linn, Mainni, Monigomery, Neosho, Wilson, and Woodson,	production. TT (16.4 psia. first values of the plant. secondary recession in 1954, and, Bourbon, Cenwood, Laboremwood, Lab	The estimate traf 6 months the several covery input are all or in Chautauqua, ibette, Linn,

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Rank	County	Producing wells	Producing acreage	Total produc- tion, barrels
1	Barton	3,183	113,830	16,353,520
2	Russell	3.044	78,120	11,195,338
3	Ellis	1.861	60.540	11.366.975
4	Butler	3,433	65,430	8,757,870
5	Rice	1,796	69,360	7,578,134
6	Rooks	1.243	43,260	7,190,986
7	Stafford	1,312	58,140	7,148,225

TABLE 3.—Largest oil-producing counties in Kansas during 1954

In the general gas production table (Table 57), in which individual pool data are given, all the 1954 production and cumulative figures for the entire State for the first time are calculated at the same pressure base of 14.65 pounds per square inch absolute.

Kansas production of natural gas liquids during 1954, 193.8 million gallons, was 17.9 million gallons less than the record year of 1953. The value of natural gas liquids dropped to \$11,765,670; there was no change in the price structure of these products (natural gasoline, propane, butane, and liquefied petroleum gases).

The total value of Kansas raw products of the petroleum industry (crude oil, natural gas, and natural gas liquids) produced in 1954 was 390.2 million dollars, which was a new record, exceeding 1953, the previous high year, by almost 32 million dollars.

Production of carbon black was reported as 54,328,515 pounds valued at \$3,014,326. Carbon black production in Kansas has been decreasing steadily during the past few years.

Barton County continued to be the largest oil producer in the State. Table 3 shows the seven largest producing counties during 1954. No change in rank among these seven counties occurred during the year. In individual field production (Table 4) the Trapp field of Russell and Barton Counties maintained the

TABLE 4.—Largest oil-producing fields in Kansas during 1954

Rank	Pool	Age, years	County	Total produc- tion, barrels
1	Trapp	19	Russell-Barton	5,409,869
2	Kraft-Prusa	18	Barton-Ellsworth	4,681,172
3	Hall-Gurney	24	Russell-Barton	4.547.924
4	Chase-Silica	24	Rice-Barton-Stafford	4,114,824
5	El Dorado	39	Butler	3,833,188
6	Bemis-Shutts	3 20	Ellis	3,372,377

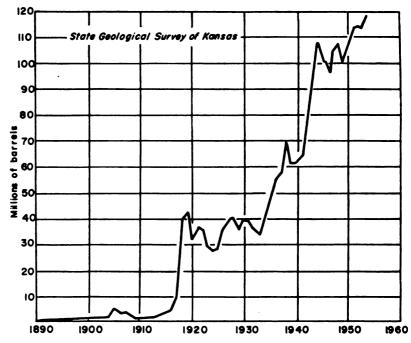


Fig. 2.—Annual oil production in Kansas from 1890 to 1954.

top position. The Hall-Gurney field (third in 1954) of Russell and Barton Counties exchanged rank with the Chase-Silica field (fourth in 1954) of Rice, Barton, and Stafford Counties. Annual oil production since 1890 is shown graphically in Figure 2.

During 1954, almost 25 million barrels of oil was imported into Kansas, and almost 55 million barrels was exported. Approximately 88 million barrels of oil was refined and used in Kansas. A summary of oil produced, imported, used, and exported during 1954 is given in Table 5.

Separate detailed production tables for oil and gas are given in this bulletin (Tables 56 and 57). 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, producing area, name of pools (alphabetically arranged), discovery year, producing zones, and reported number of producing wells. Where possible, production from zones has been differentiated. Totals for each county are given so that comparisons can be made. Where oil or gas pools extend across

Table 5.—Summary of oil produced, imported, used, and exported in 1954 (From the Conservation Division, Kansas Corporation Commission)

	Barrels of oil
Produced Imported	118,309,260 24,966,516
Total	143,275,776
Exported Refined and used in Kansas	54,968,489 88,307,287
Total	143,275,776

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.

Special attention has been given to dividing the natural gas production from the Hugoton Gas Area into county totals. Table 12 gives the 1954 gas production and cumulative production for each of the nine Hugoton gas-producing counties. The number of wells now producing and the year in which gas was first discovered are given in Table 57. Basic data on production from the Kansas portion of the Hugoton Gas Area have been made available through the cooperation of the Kansas Corporation Commission and Dwight's Oil and Gas Reports.

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

Reserves.—Kansas proved reserves of liquid hydrocarbons (crude oil plus natural gas liquids) as of December 31, 1954, were 1,153.7 million barrels, an increase of 5.7 percent; nationally, reserves increased 1.2 percent. Kansas proved reserves of crude oil were 978.5 million barrels (API-AGA, 1954, p. 9) at the end of 1954, an increase of 7.1 percent; nationally reserves increased 2.1 percent.

Proved reserves of natural gas in Kansas at the end of 1954 were estimated by the Reserves Committee of the American Gas Association to be 15,758 billion cubic feet, a decrease of about 0.2 percent. Kansas proved reserves of natural gas liquids, 175 million barrels, decreased by 1.4 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. 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 many of the reservoirs extend considerably beyond the limits as indicated. However, for practical purposes the areas have been calculated on the basis of lines drawn just outside the productive area demonstrated by present development.

For eastern Kansas counties, it has been desirable to omit from the map (Pl. 1) the boundaries of the old fields as they were drawn many years ago, because they contain very large areas that are not producing at the present time. Only areas that were producing oil during 1954 are shown on the map and assigned acre areas in Table 56. It is the custom of the State Geological Survey of Kansas to issue, about every 5 years, a bulletin on the oil and gas developments in eastern Kansas. Bulletin 104 (Jewett, 1954), is the latest. 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 1954, 122 new oil pools and 23 new gas pools (one is both oil and gas) were discovered in Kansas. Four previously abandoned pools, two oil and two gas, were revived during the year. Of the 124 new and revived oil pools, the discovery wells of 7 were carried on the scout reports as dry and abandoned; 12 of the new oil and gas pools were combined with other pools. Stafford County had 15 new oil pools discovered, Barton County 12 oil and 1 gas, Ellis County 10 oil, and Harper County 7 oil and 3 gas, one of which was a revived pool.

The new pool discoveries are listed in Table 6. The number of new oil and gas pools, 144, discovered during 1954 is 43 less than the high set in 1953. The total of Kansas counties which have in the past or are at present producing commercial quantities of oil or gas or both is 80.

Table 7 summarizes new oil and/or gas zones discovered in old producing fields during 1954; 41 new zones were named. Data similar to those presented for new pool discoveries are given.



TABLE 6.—New oil and gas pools discovered in Kansas during 1954

County, field, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial production per day, bbls.
Barber County					
Gudeman NW NE 10-35-10W	Aurora Gasoline Co. No. 1 Gudeman	Viola	5,152-5,162	Nov.	593
Hardtner NE SE 31-34-12W	Aurora Gasoline Co. and Barbour Drlg. Co. No. 1 Rathgeber	Mississippian	4,782-4,788	Oct.	13,500,000 cu. ft. gas
Little Bear Creek SW NW 12-32-12W	Frank Purcell and J.A. Mull No. 1 Lake	"Doug. sand"	3,808-3,824	Sept.	10,000,000 cu. ft. gas
McClure SW SW 6-33-11W	Barbara Oil Co. and R. C. Patton No. 1 McClure	"Doug. sand"	3,548-3,571	Sept.	3, <b>300,000</b> cu. ft. gas
Mease NE SW 27-30-11W	Aylward Drig. Co. et al. No. 1 Mease	"Doug. sand"	3,759-3,769	Oct.	5,000,000 cu. ft. gas
Medicine Lodge North NE NE 25-32-13W	Anschutz Drlg. Co., Inc. No. 1 Lonker	Mississippian	4,480-4,493	Nov.	161
Medicine Lodge South- west NW SW 6-34-13W	Imperial Drlg. Co., Inc. No. 1 Ott "A"	Mississippian	4,889-4,895	Aug.	1,8 <b>46,000</b> cu. <b>ft. ga</b> s
Rhodes East NW NE 23-33-11W	Frank Purcell and J. A. Mull No. 1 Burns	Mississippian	4,579-4,585	Oct.	20 (15% wtr.)
Rhodes North SE SW 4-33-11W	Musgrove Petroleum Corp No. 1 Early (Now part		4,423-4,438 field)	July	8, <b>256,00</b> 0 cu. ft. gas
Salt Fork NE NE 11-35-15W	The Chicago Corp. No. 1 Davis Ranch	Mississippian	4,982-5,003	Oct.	32
Whelan East SE SE 21-31-11W	Orville H. Parker No. 1 Chain	"Doug. sand"	3,746-3,753	Oct.	2, <b>422,000</b> cu. ft. <b>gas</b>
Whelan Southwest NW NW 11-32-12W	Harms-Burt Drlg. Co. No. 1 Smith	Mississippian	4,299-4,240	Sept.	93
Barton County					
Bissell Point SE SE 10-19-13W	Schermerhorn Oil Corp. No. 1 Bissell Point	LansK.C.	3,276-3,281	Nov.	172
Carroll North SE NE 17-17-14W	Coppinger Drlg., Inc. No. 1 Boyle	Arbuckle Reagan	3,450-3,459	Oct.	25
Claffin SE SW 3-18-11W	Francis Raymond No. 1 Simmons	LansK.C.	3,044-3,048	Nov.	25
Clarence Northwest NE NW 35-19-15W	H & H Drlg. Co. No. 1 Button	Pre-Cam- brian	3,531-3,543	Jan.	25
Clarence South SE SE 2-20-15W	Schermerhorn Oil Corp. No. 1 Mull "A" **	Penn. basal congl.	3,606-3,636	April	3,500,000 cu. ft. gas
foisington East W SE 23-17-13W	E. K. Carey Drlg. Co. No. 1 Munns	Arbuckle	3,338-3,343	April	240
loisington Southwest W SE 20-17-13W	The Darby Oil Co. No. 1 Alice Hull	Arbuckle	3,363-3,384	Dec.	50
ames IW SE 20-19-12W	Lewis Drlg. Co. No. 1 Welsh	LansK.C.	3,278-3,284	April	326
ettie E NW 27-20-14W	Phillips Petroleum Co. No. 1 Jettie "A"	Simpson	3,534-3,540	Aug.	2,565
androck Southeast W NE 34-20-13W	Rocket Drlg. Co. No. 1 McDonald	LansK.C.	3,262-3,280?	Nov.	Oil
outh Bend E NW 9-20-13W	Schermerhorn Oil Corp. and Thunderbird Drlg. Co. No. 1 Hart	LansK.C.	3,317-3,325	Dec.	190
unny Valley North- ast SE SE 6-20-12W	V. E. Autry et al. No. 1 Dodge	Arbuckle	3,422-3,434	March	24
unny Valley South- est NE NE 23-20-13W	Harms-Burt Drlg. Co. No. 1 Murphy	Lans-K.C.	3.336-3.341	Nov.	190
utler County	•				
ierce Northwest W NW 21-25-4E	E. H. Adair Oil Co. No. 1 Corfman	Mississippian	2,569-2,583	March	20

TABLE 6.—New oil and gas pools discovered in Kansas during 1954, continued

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County, field, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial production per day, bbls.
Clark County					
Harper Ranch North NW SE 22-33-21W	Sinclair Oil & Gas Co. No. 1 Combrink	Morrowan	5,318-5,336 5,350-5,360	Nov.	8,000,000 cu. ft. gas
Morrison Northeast SE SE 10-32-21W	Shamrock Oil & Gas Corp. No. 1 Stephens	Morrowan	5,193-5,207	Dec.	14,000.000 cu. ft. gas & 42
Cowley County					
Arkansas City South- west SW SE 35-34-3E	Martin & Cash Drlg. Co. No. 1 Putnam	"Hoover sand"	1,981-1,987	March	25
Church SE SW 13-31-6E	The Saco Oil Co. No. 1 Church	Mississippian	2.935-2,947	July	13
Hittle North SW NW 15-31-4E	Aladdin Petroleum Corp. No. 1 Summers (Now pa		3,01 <b>4-3,02</b> 0 field)	April	25
Nitsche SE SE 24-32-6E	Royal Oil & Gas Corp. No. 1 Nitsche	"Layton"	2,209-2,216	Jan.	D & A
Quarry NW SW 28-34-5E	Orville H. Parker No. 1 Dunn**	"Cleveland"	2,684-2,702	June	25
Rainbow Bend South- west NW NE 31-33-3E	K. T. Wiedemann No. 1 Hanson**	Mississippian	3,356-3,374	June	11
Decatur County					
Pollnow Northwest NW SE 31-2-29W	Sauvage & Dunn Drlg. Co. Inc. No. 1 Pollnow	, LansK.C.	3,772 (top)	Sept.	D & A
Dickinson County					
Ash Grove SW SW 5-15-1E	Donald T. Ingling No. 1 Wilson "A"	Mississippian	2,569-2,572	Sept.	20
Edwards County					
McCarty (revived) NE NW 31-25-17W	Sherrod & Apperson No. 1 Huff (31-25-17W)*	Penn. basal congl.	4,528-4.538	May	3,286,000 cu. ft. gas
Sturgeon SE NW 33-26-18W	Graham-Messman-Rine- hart Oil Co. No. 1 Sturgeon	Viola	4,721-4,726	Sept.	35
Wokaty SE NE 25-25-17W	Cities Service Oil Co. No. 1 Wokaty	Penn. basal congl.	4.390-4,405	May	2.850,000 cu. ft. gas
Ellis County	•				
Dinges NE NE 9-15-18W	Frontier Oil Co. No. 1 Dinges	Arbuckle	3,624-3,636	July	53
Eagle Creek NW NW 11-11-20W	The Veeder Supply & Development Co. No. 1 Irvin	LansK.C.	3,368-3,380	Sept.	1,961
Erbert Southeast NE SE 28-12-20W	D. R. Lauck Oil Co., Inc. No. 1 Raynesford	Penn. basal congl.	3.857 (top)	June	Oil
Hadley (revived) SW SW 20-11-17W	Walters Drlg. Co. No. 1 Hadley "A"	Arbuckle	3,474 (top)	March	25
Herman NW NE 28-13-20W	Mallonee Drlg. Co., Inc. No. 1 Herman	Arbuckle	3,865-3,871	Dec.	199
Koblitz Northwest SE NW 15-12-18W	Petroleum, Inc. No. 1 Baker "A"	Arbuckle	3,730-3,735	April	182
Leiker Southeast SW SE 14-15-18W	Frontier Oil Co. No. 1 Witt	Arbuckle	3,547-3,551	Aug.	160
Nicholson South SE NW 31-11-20W	Stanolind Oil and Gas Co. No. 1 Huck (Now pa	Arbuckle art of the Nicho	3,823-3,828	May	213
Walter Southeast SE SE 13-12-18W		Arbuckle	3,658-3, <b>662</b>	Aug.	199



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Younger South SE NW 8-14-17W	Transit Corp. and Davis Bros. No. 1 Lang	Arbuckle	3,546-3,553	Oct.	125
Ellsworth County					
Green Garden SE NW 1-17-9W	The El Dorado Refg. Co. No. 1 Brown	LarisK.C.	3,046-3,050	July	215
Ford County					
Pleasant Valley South SW NE 14-28-21W	W. J. Coppinger No. 1 Vice	Mississippian	5,056-5,074	March	7,600,000 cu. ft. gas
Graham County					
Happy SW NW 21-10-23W	Imperial Drlg. Co., Inc. No. 1 Brown "A"	LansK.C.	3,804-3,809	April	2,805
Happy Southeast NW NE 28-10-23W	E. W. Wickizer No. 1 Wickizer (Now par	LansK.C.	3,842-3,848	May	315
Holley SW SW 3-9-24W	Empire Drlg. Co. No. 1 Keith	LansK.C.	3,900-3,906	Nov.	1,736
Hoof NE SW 9-10-23W	Imperial Drlg. Co., Inc. No. 1 Hoof "A"	LansK.C.	3,865-3,869	Dec.	3,000
Noah Southwest SE NW 33-10-21W	Petroleum, Inc. No. 1 Noah	Marmaton	3,756-3,764	Oct.	103
Prairie Glen NE SW 25-10-23W	Petroleum, Inc. No. 1 McCall "B"	Lans-K.C.	3,596-3,600	Nov.	200
Sand Creek NW NW 27-8-21W	Schermerhorn Oil Corp. No. 1 Newell	LansK.C.	3,387-3,393	Oct.	166
Schmied Northeast SW SW 10-8-25W	Wentworth Oil & Development Co., Inc. No. 1 Walts	LansK.C.	3,867-3,892	Sept.	175
Van NE NE 14-9-22W	Nat'l. Coop. Ref. Assn. No. 2 Van Loenen	Arbuckle	3,871-3,875	Sept.	114
Greenwood County					
Ly-Green NW NE 5-22-11E	White & Ellis Drlg. Co. No. 1 Curry	"Bartlesville"	1,858-1,871	Sept.	25
Harper County					
Anthony NE SW 31-33-6W	Gulf Oil Corp. No. 1 Rife	Mississippian	4,486-4,502	Sept.	208,000 cu. ft. gas
Banner SW SW 27-32-7W	Musgrove Petro. Corp., No. 1 Moldenhauer	Viola-Simp- son	4,833-4,839	Aug.	3,000
Berg SW SE 29-32-7W	Beardmore Drlg. Co., Inc. No. 1 Berg	Viola	4.758-4,764	March	134
Dusenbury NE NW 3-32-9W	Earl F. Wakefield et al. No. 1 Dusenbury	Mississippian	4,465-4,500	July	25
Dusenbury North NE NW 34-31-9W	Earl F. Wakefield No. 2 Dusenbury	Mississippian	4,422-4.428	Nov.	25
Grabs East NW SE 9-31-8W	Frank Purcell No. 1 Culver (Now part	Mississippian of the Grabs	4,398-4,411 field)	Feb.	33
Grabs Northeast NE NW 8-31-8W	Purcell & Mull Drlg. Co. No. 1 Dickson (1	Mississippian Now part of the	4.442-4,445 Grabs field)	April	78
Grabs South NW NE 25-31-9W	The Carter Oil Co. No. 1 Antrim	Mississippian	4.397-4.403	April	298
Grabs West SE SE 14-31-9W	S. A. Berwick No. 1 Morris (Now part of	Mississippian of the Grabs fiel	4,398-4,404 d)	Sept.	921
Haskell County					
Pleasant Prairie NE SW 4-27-34W	Helmerich & Payne, Inc. No. 16 Jones	Mississippian	5,041 (top)	May	167
Kingman County			4.000		
Banta SW SW 34-30-8W	Frank Purcell No. 1 Banta (Now par	Mississippian t of the Spivey	4,380 (top) field)	Feb.	Temp. abd.
Banta Northeast NW NE 34-30-8W	Pickrell Drlg. Co. No. 1 Boyle "B" (Now pa	Mississippian art of the Spive	4,288 (top) y field)	March	D & A



TABLE 6.—New oil and gas pools discovered in Kansas during 1954, continued

County, field, and location of discovery well	Discovery well	Producing zone	Production depth. feet	Month of dis- covery	Initial production per day, bbls.
Broadway West NE NW 19-28-5W	Greenland Drlg. Co. No. 1 Viney	Mississippian	3,884-3,890	Nov.	127
Kingman (revived) SE NE 16-27-7W	Heathman-Seeligson Drlg Co. No. 1 Wooldridge (16	g. Mississippian 5-27-7W)*	3,824-3,830	Nov.	1, <b>000,000</b> cu. <b>ft</b> . <b>g</b> as
Orsemus South SW NW 31-29-5W	The Texas Co. No. 1 Callison	Viola	4,483 (top)	April	Oil
Rosedale SE SE 32-29-6W	M. B. Armer & Mid- states Oil Corp. No. 1 Davis	LansK.C.	3,691-3,696	May	144
Spivey East NW SW 19-30-7W	Pickrell Drlg. Co. No. 1 "B" Tjaden (Now p	Mississippian art of the Spive	4,210-4,240 ey field)	Aug.	205
Spivey Northwest SW SE 9-30-8W	Petroleum, Inc. No. 1 Evans "A"	Mississippian	4,156-4,180	Sept.	3, <b>500,000</b> cu. <b>ft. ga</b> s
Willowdale SW SW 11-29-9W	Aylward Drlg. Co. No. 1 Amsden	Viola	4,502-4.506	May	265
Zenda SW SW 36-29-9W	Rupp-Ferguson Oil Co. No. 1 Hartshorn	Mississippian	4,161-4,170	Nov.	7,600,000 cu. ft. gas
Kiowa County Johannsen SE SE 13-28-19W	Aladdin Petro. Corp. No. 1 Johannsen	Mississippian	4,864-4,890	Sept.	1,000,000 cu. ft. gas
Marion County Durham South NE SW 3-19-2E	Anderson-Prichard Oil Corp. No. 1 Hett	Simpson	3,039-3,041	Nov.	43
Youk S½ S½ 20-18-2E	Anderson-Prichard Oil Corp. No. 2 Youk	Viola	3.017-3.020	Dec.	25
Meade County Bond NW SE 32-33-30W	The Ohio Oil Co. No. 1 Bond	Atokan	5,619-5-631	Aug.	129
<b>Ness County</b> Aldrich Northeast SW SE 23-17-25W	Barnett Oil Co. No. 1 Shearer	Mississippian	4,398-4,405	Aug.	66
<b>Norton County</b> Ray North NW SW 13-5-21W	Murfin Drlg. Co. No. 1 Baird	Arbuckle	3,544 (top)	May	D & A
Pawnee County Garfield Northeast NW NW 3-23-17W	Clark Knight Drlg. Co. & N.C.R.A. No. 1 Hutchinson Estate	Mississippian	4,150-4,158	Sept.	1,413
Garfield Southwest SE NW 30-23-17W	Coppinger Drlg., Inc. No. 1 Rawlins **	Misener	4.347 (top)	Aug.	D & A
Jab SW SW 35-22-17W	The Derby Oil Co. & Honaker Drig.Co. No. 1 Boyd	Penn. basal congl.	4,152-4,158	Oct.	3,500,000 cu. ft. gas
Jay NW SW 3-23-15W	Atlantic Refg. Co. No. 1 Jay T. Smith	Simpson	4,025-4,039	Sept.	146
Lovett NW NW 35-22-15W	R. W. Rine Drlg. Co. No. 1 Lovett	LansK.C.	3, <b>682-3,690</b>	Nov.	54
Shiley NE NE 14-20-20W	Cities Service Oil Co. No. 1 Rissee	Penn. basal congl.	4,173-4,180	March	506
Shiley East NW NW 18-20-19W	Natl. Coop. Ref. Assn. No. 1 Eckert	Penn. basal sand (Cheroke	4,223- <b>4,225</b>	Sept.	91
Sweeney West SE SE 6-21-15W	Graham-Messman-Rine- hart Oil Co. No. 1 Dufford (Now part of th	Arbuckle	3,831-3,835	March	5,000,000 cu. ft. gas & 168



Phillips County					
Phillips County Mont-Sol	Sohio Petroleum Co.	LansK.C.	3,255-3,265	Jan.	408
SE SE 1-4-19W Wolf Creek	No. 1 Krause Jones, Shelburne &	LansK.C.	3,212-3,214	Dec.	20
NE SW 16-4-19W	Farmer, Inc. No. 1 Bales	Delia:-II.O.	0,212 0,211	200.	
Pratt County					
Cairo North SE NE 6-28-11W	Graham-Messman-Rine- hart Oil Co. No. 1-A Bucklin	Viola	4,314-4,318	Jan.	195
Chance North SE NW 21-26-13W	A. G. Hill No. 1 Dodson	Simpson	4,421-4,427	March	168
Chance Northwest SE NW 29-26-13W	H. L. Moore No. 1 Williams	Simpson	4,422-4,430	Feb.	163
Coats North SW SE 12-29-14W	Lario Oil & Gas Co. No. 1 Shriver Estate	Simpson	4,584-4,600	April	104
Earl SW SE 36-28-14W	Lario Oil & Gas Co. & Sinclair Oil Co. No. 1 Earl Moore	Simpson	4,520-4,534	June	1,258
Fitzsimmons South SW SE 31-27-13W	Sterling Drlg. Co. No. 1 Elliott	Simpson	4,435-4,445	Sept.	1,117
Lion Northeast SE NW 21-27-11W	Graham-Messman-Rine- hart Oil Co. & Buffalo Oil Co. No. 1 Lion "A"	LansK.C.	3,796-3,799	March	355
Tatlock NE NW 28-26-15W	Anschutz Drlg. Co. No. 1 Tatlock	LansK.C.	3,925-3,929	Oct.	455
Reno County					
Grove NE NW 12-25-10W	Schermerhorn Oil Corp. No. 1 Morris	Mississippian	3,884-3,895	June	23
Rice County				_	
Bushton SW SE 11-18-10W	Lario Oil & Gas Co. No. 1 Shonyo	Arbuckle	3,281-3,289	Sept.	43
Crawford Southeast NE NW 20-18-6W	The Derby Oil Co. No. 1 Wolf "A"	Penn. basal congl.	3,276-3,282	April	20
Raymond East NW SW 25-20-10W	Petroleum, Inc. No. 1 Malone "C"	Simpson	3,306-3,314	March	25
Rooks County					
Allphin Northwest NW NE 32-10-20W	Heathman-Seeligson Drlg Co. No. 1 H. L. Wait	. Arbuckle	3,736-3,742	Jan.	232
Dopita Southeast NW SE 5-9-17W	Murfin Drlg. Co. No. 1 Fike	LansK.C.	3,335-3,340	Sept.	203
Nutsch S <sup>1</sup> <sub>2</sub> NE 3-10-20W	Francis Oil & Gas, Inc. No. 1 Nutsch "B"	Arbuckle	3.840-3,848	Sept.	433
Rush County		•			
Rush Center North- east SW SE 10-18-18W	Imperial Drlg. Co., Inc. No. 1 Krug	Arbuckle	3,783-3,788	July	523
Ryan East SW SE 36-19-16W	Tatlock Oil Co. No. 1 Peterson	Arbuckle	3,648-3,651	Jan.	532,000 cu. ft. gas
Webs NE NE 16-19-20W	Republic Natural Gas Co. No. 1 Webs "C"	Penn. basal sand	4,202-4,212	Dec.	(shut-in) 3,000
Russell County					
Eulert West SW NE 34-11-15W	The Carter Oil Co. No. 2 O. C. Eulert	LansK.C.	2,948-2,954	Feb.	64
Steinert (revived) SE SW 21-15-15W	Lohmann-Johnson Drig. Co., Inc. No. 1 Steinert (21-15-15W)*	LansK.C.	3,141-3,144	Мау	10
Scott County					
Grigston NW NE 10-19-31W	H & H Drlg. Co. No. 1 Rush	Arbuckle	5,050-5,054	Nov.	153



TABLE 6.—New oil and gas pools discovered in Kansas during 1954, concluded

	<i>o</i> .				
County, field, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial production per day, bbls.
Sedgwick County Gladys SE SW 30-28-1E	Beardmore Drlg. Co. No. 1 Tyson	Mississippian	3,176-3,185	Oct.	123
Seward County					
Blue Bell Northwest NW NW 20-34-31W	Lansekan Co., Inc. No. 1 Good "B"	Mississippian	5,947-5,965	March	1,700,000 cu. ft. gas
Holt NW NE 28-32-34W	Cities Service Oil Co. No. 1 Holt "B"	Topeka	3,820 (top)	March	27,800,000 cu. ft. gas
Wide Awake N½ NE 4-35-34W	Panhandle Eastern Pipe Line Co. No.1-4 Boles**	Toronto	4,410-4,426	June	9,998,000 cu. ft. gas
Stafford County					
Brenn NE SW 19-23-13W	Heathman-Seeligson Drlg Co. No. 1 Brenn	Lans-K.C.	3,651-3,657	May	153
Centerview NW SW 28-24-13W	Natural Gas and Oil Corp. No. 1 Van Lieu	Arbuckle	4.188-4,193	Feb.	116
Cephas North SW SW 35-24-14W	Deep Rock Oil Corp. No. 1 Bowker	LansK.C.	3,794-3,803	Oct.	138
Glen SW SE 14-23-14W	Natural Gas and Oil Corp. No. 1 Glen Crissman	LansK.C.	3,651-3,657	Jan.	143
Kennil NW SE 4-23-13W	Welch & Olsson Oil Co. No. 1 Green	Arbuckle	3,860 (top)	Sept.	D & A
Kipp North SW NW 23-25-14W	Deep Rock Oil Corp. No. 1 Tanner	LansK.C.	3,748-3,758	Sept.	208
Macksville East NE NE 14-24-15W	Greenland Drlg. Co. No. 1 Isern	Viola	4,126-4,146	June	324
Mopac NE NW 30-24-11W	Cooperative Ref. Assn. No. 1 McMillan "A"	Viola	3,908-3,913	Sept.	32
Radke East SW SE 24-23-14W	Harms-Burt Drlg. Co. No. 1 Radke	LansK.C.	3,676-3,680	Oct.	161
Rattlesnake South- east NE SE 13-24-14W	Natural Gas and Oil Corp. No. 1 Harrison	LansK.C.	3,758-3,764	March	412
Saterlee NE NW 31-24-14W	Gulf Oil Corp. No. 1 Saterlee	Penn. basal congl.	4,166-4,179	Aug.	45
Seevers SE SE 6-25-13W	Westpan Hydro-Carbon Co. No. 1 Seevers	LansK.C.	3,893-3,942	June	14
Shepherd North SW NE 9-22-11W	Republic Natural Gas Co No. 1 Fair	. Penn. basal congl.	3,446-3,454	April	75
Sutton NE SW 21-22-14W	Natural Gas and Oil Corp. & Amerada Petro. Corp. No. 1 Sutton "A"	LansK.C.	3,638-3,641	Sept.	66
Widener SE NE 26-21-12W	M. L. Friedman & V.E. Autry No. 1 Widener	Arbuckle	3,574-3,581	<b>A</b> pril	88
Stanton County					
Sparks C NE 34-30-42W	J. M. Huber Corp. No. 1 Sparks	Morrowan (Keyes)	5,254-5,258	July	16,000,000 cu. ft. gas
Sumner County					
Ashton NW NW 19-34-2E	Orville H. Parker No. 2 Miller	"Cleveland"	3.210-3,232	July	50
Ashton East SE NE 20-34-2E	Capitt Drlg., Inc. No. 1 Schiferdecker	Mississippian	3,517-3.532	Sept.	7
Ashton Southwest NW SE 24-34-1E	Ashton Oil Co. No. 1 Wolf (Now part	"Cleveland" of the Ashton	3,191-3-208 field)	July	20
Chicaskia NW SE 5-33-\$W	Beardmore Drlg. Co., Inc. No. 1 Muhlenbruch	LansK.C.	3,415-3,423	June	63



Gerberding NE NE 6-34	-4W	Time Petroleum Co. No. 1 Gerberding	Simpson	4,710-4,715	July	25
Murphy Sou SW NE 13-3		Martin & Cash Drlg. Co. No. 1 Smith	"Cleveland"	<b>3,150</b> (top)	Feb.	20
Padgett Wes		Greenland Drlg. Co. No. 1 Hills	"Layton"	2,829-2,837	June	26
South Have SW NW 2-3		Herndon Drlg. Co. No. 1 Yearout	Simpson	4,189-4,194	May	925
Trego Coun	ty					
Hixson East SW SW 16-		Stanolind Oil and Gas Co. No. 1 Scott	Arbuckle	3,939 (top)	Sept.	39
Spaulding S NE SE 1-11	South -21W	Magnolia Petroleum Co. No. 1 Spaulding	LansK.C.	3,538-3,542	Мау	5 ,

<sup>\*</sup>Location of original discovery well.

•• Old well worked over.

Abandoned and combined pools.—Only one oil pool, the Hart pool in Stafford County, was officially abandoned during 1954 by the Kansas Nomenclature Committee. Twenty-six oil or gas pools were combined with other pools or fields. As has been the custom of the Survey, the outline of an abandoned pool is omitted from the maps in this bulletin.

Wells drilled during 1954.—There were 4,768 wells recorded as being drilled in the State during 1954. It is certain that numerous shallow wells in several eastern Kansas counties were not recorded and thus are not included in this tabulation. It is estimated from reliable sources other than scout reports that at least 3,746 such unreported wells were drilled in 1954. Of the reported tests 2,326 were oil wells, 362 were gas wells, 1,876 were dry and abandoned holes, and 204 were salt-water disposal or input wells drilled in connection with secondary recovery operations. New pool discoveries and pool revivals accounted for 148 of the oil and gas wells; 509 of the dry holes were dry wildcat tests.

Eight Kansas counties had more than 200 wells recorded drilled in 1954. For the first time in many years, Cowley County, which had 337, led all others. Following in order were Ellis (303), Barton (297), Graham (251), Rooks (244), Stafford (243), Russell (220), and Butler (213). These eight counties accounted for 44 percent of the total number of recorded wells drilled in the State during 1954.

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 symbols on the maps. Dry wildcat tables for



counties having four or more such tests during 1954 are included in the county write-ups.

The various tops of the formations listed in the tables were 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,

TABLE 7.—New oil or gas zones in old producing fields, 1954

	•	•	· ·	•	
County, field, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial production per day, bbls.
Barton County					
Clarence NW SW 36-19-15W	Schermerhorn Oil Corp. No. 1 Merten "A"	Reagan	3,534-3,550	May	198
Great Bend Townsite SE SE 21-19-13W	Honaker Drlg. Co. No. 2 Esfeld "A"	LansK.C.	3,196-3,226	Feb.	353
Koopman NE NE 23-19-13W	Hanlon-Boyle, Inc. No. 1 Koopman**	LansK.C.	3,220-3,223	May	597
Cowley County					
Estes SE NW 12-32-6E	Paul McKnab No. 1 Estes	"Layton"	2,190-2,203	July	25
Gibson SE NE 32-34-3E	Aladdin Petroleum Corp. No. 10 Bird-Drennen	Arbuckle	3,780-3,791	Feb.	258
Gibson SE SW 32-34-3E	The Texas Co. No. 1 Williams**	Simpson	3,774-3,780	June	18
Gibson NW NW 33-34-3E	Gross Drlg. Co. No. 1 Lawson**	"Cleveland"	2.984-2,986	April	11
Ellis County					
Burnett SE NE 23-11-18W	The Derby Oil Co. No. 1 Lynn "E" **	Simpson	3,603-3,613	June	361
Catharine South SW NE 22-13-17W	L. J. Williamson No. 1 Von Lintel	LansK.C.	3,292-3,304	Aug.	209
Degenhart NE SE 16-15-17W	The Bay Petroleum Corp. No. 1 Roth	Arbuckle	3,521-3,531	Feb.	116
Leiker East NE NE 14-15-18W	Wood River Oil & Refg. Co., Inc. No. 4 Dechant	LansK.C.	3,321-3,329	Aug.	3,000
Schmeidler SE SW 29-12-17W	Glenn R. Nye Drlg. Co. No. 1 Schmidt**	LansK.C.	3,389-3,395	July	10
Sessin NE SW 10-11-19W	Okmar Oil Co. No. 3 Albert	Lans-K.C.	3,291-3,298	March	<b>59</b>
Gove County					
Gove NW NW 25-13-30W	Petroleum Management, Inc. No. 1 Moore	LansK.C.	4,122-4,132	Dec.	153
McPherson County					
Lively SW NW 22-19-2W	National Associated Petro. Co. No. 1 Anderson "A"	LansK.C.	2,324-2,336	June	70
Marion County					
Antelope North SE SW 28-18-4E	B D & W Co. No. 1 Holub	Mississippian	2,401-2,407	Dec.	50
Lehigh North SE NE 22-19-1E	Anderson-Prichard Oil Corp. No. 1 Schroeder	Viola	3,225-3, <b>229</b>	Oct.	**

Pawnee County

rawnee County					
Garfield NE SW 17-23-17W	Hilton Drlg. Co. No. 1 Hutchinson "C"	Mississipplan	4,279-4,284	Jan.	105
Garfield Southwest NW NE 31-23-17W	Coppinger Drlg., Inc. No. 1 Wurm	Mississippian	4,317 (top)	Dec.	D & A
Hearn NW SE 35-23-15W	Natural Gas and Oil Corp. & Sinclair Oil & Gas Co. No. 2 Hearn	Simpson	4,106-4,112	April	3,500,000 cu. ft: gas
Pratt County					
Chance East NW SW 35-26-13W	R. W. Rine Drlg. Co. No. 1 Briggeman "B" **	LansK.C.	3,984-3,992	April	265
Coats North NE SW 12-29-14W	Lario Oil & Gas Co. No. 1 Moffat "A"	Marmaton	4,342-4,352	June	82
Frisbie Northeast SE SE 4-26-13W	Skelly Oil Co. No. 4 S. F. Chance	Viola	4,170-4,187	June	138
luka-Carmi SW NW 31- <b>26-12W</b>	Skelly Oil Co. No. 1 Honeman**	Mississippian	4,112-4,136	March	25
Iuka-Carmi Northwest NW NW 26-26-13W	Amerada Petroleum Corp. No. 1 Hoener	Simpson	4,276-4,292	June	37
Rice County					
Frederick SE NE 10-18-9W	The Lotus Oil Co. No. 1 Schroeder	Simpson	3,280-3,290	Nov.	25
Rooks County					
Dorr South SW SW 21-9-16W	Harold Krueger & Transit Corp. No. 1 Anderson	LansK.C.	3.233-3.243	April	40
Laura SE SW 24-10-21W	Anderson-Prichard Oil Corp. No. 1 Atcheson	LansK.C.	3,619-3,625	April	90
Northampton SE SW 27-9-20W	Nadel & Gussman No. 19 Hinkhouse	Lans-K.C.	3,596-3,600	April	454
Northampton South- east SE NE 35-9-20W	Francis Oil & Gas, Inc. No. 4 Wilson "C"	LansK.C.	3,678-3,690	April	130
Russell County					
Heim SW NE 22-14-12W	Lewis Mai No. 1 Miller	Arbuckle	3,238-3,243	Dec.	25
Heim NW SW 22-14-12W	Shelley-Miller Drlg., Inc. No. 1 Herbel	LansK.C.	2,897-2,925	Dec.	78
Stafferd County					
Hazel West NW SW 16-21-13W	Western Rig Co., Inc. No. 1 Grow**	LansK.C.	3,488-3,494	Sept.	104
Kowalsky Southwest NE NE 7-21-11W	Duke & Wood Drig. Co. No. 1 Schlochtermeier	Simpson	3,398-3,421	Oct.	40
Newell NW NW 7-25-11W	Natl. Coop. Ref. Assn. No. 2 Newell	LansK.C.	3,537-3,540	June	25
Oscar South NW SE 26-22-14W	Petroleum, Inc. No. 2 Smith "J"	Lans-K.C.	3.580-3,585	Feb.	372
Rose Valley SW SW 36-25-13W	M. B. Armer No. 2 Walters	Viola	4.137-4,150	April	75
Shepherd North SE SW 4-22-11W	Republic Natural Gas Co. No. 1 Fair "B"	LansK.C.	3,297-3,302	June	338
Summer County					
Dyal SE SE 5-35-2E	Capitt Drlg., Inc. No. 1 Phillip	"Cleveland"	3,095-3,110	Feb.	40
Themas County					
Mingo SW SW 19-9-32W	Phillips Petroleum Co. No. 1 Keller "A"	Marmaton	4,414 (top)	Sept.	256
Trege County					
Groff SE SE 27-14-21W	Amerada Petroleum Corp. No. 1 Wanamaker**	LansK.C.	3,493-3,503	July	48
** Old well worked ov	er.				

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 1954 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 1954 completions. The 1954 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.

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, 1954) and is treated somewhat differently in this report. Plate 1 is a map of eastern Kansas showing locations of areas from which oil was produced during 1954 and locations of secondary recovery projects.

Developments in eastern Kansas in 1954 were intensified by the searching for shallow reservoir rocks in which commercial wells can be completed by hydraulic fracturing methods. Some fields that were opened, joining of fields, and field extensions in several counties are particularly significant.

A very significant amount of oil is produced in eastern Kansas by secondary recovery methods, especially water flooding. In 1954 the total oil production by secondary recovery methods, including an estimate of those projects not reporting specifically, was more than 11.2 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; Anderson-Prichard Oil Corporation; Kansas City Testing Laboratory; Joe Maclaskey; W. L. Maclaskey; M.F.A. Oil Company; Sinclair Oil and Refining Company; Sinclair Oil & Gas 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 Virgil Cole, Mack C. Colt, John A. Edwards, Lee Garrett, Thomas W. Lee, William McHugh, J. H. Page, Carl L. Pate, W. L. Stryker, Charles W. Studt, Joe Svoboda, Albert Sweeney of the Interstate Oil Compact Commission, Bufford Welch, Harvel White, and Earl A. Whitworth.

Special thanks are due to Laughlin-Simmons and Company of Tulsa, Oklahoma, for permission to publish certain well elevations and to J. D. Davies of the Kansas Sample Log Service for permission to use data on some rank wildcat tests drilled during the year. We wish to acknowledge also the Independent Oil and Gas Service's scouting service, which has been most helpful.

The Survey is pleased to acknowledge assistance from Vance E. Rowe of Petroleum Statistical Guide, Inc., in connection with his supplying a large part of the crude oil production figures, and to D. R. Dwight of Dwight's Oil and Gas Reports who made available production figures for the Hugoton Gas Area.

W. R. Atkinson did much of the checking necessary in this statistical report.

#### 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 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 11.2 million barrels in 1954, accounting for about 9.5 percent of the State's total production this year. The reported production for 1954 totaled 10,148,676 barrels, and the 11.2 million barrel figure is reached by adding an estimate of those operations not reporting specifically.

Table 1 lists the secondary recovery operations in the State for which questionnaires were returned. The 173 projects listed reported a total of 5,852 wells producing oil by secondary recovery methods and 4,339 wells which were utilized as input wells for injection of a repressuring medium. Of the total projects reporting, 154 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 8). During 1954, 43 projects in Greenwood County accounted for more than 4 million barrels of oil. Twenty-four projects in Butler County, the second largest producer of oil by secondary recovery methods, accounted for more than 2.6 million barrels. These two counties accounted for more than half the oil produced through repressuring projects in Kansas.



TABLE 8.—Data on seven counties producing oil by secondary recovery in 1954

County	Number of projects, 1954	Total oil production, 1954, bbls.	Est. secondary recovery oil production, 1954, bbls.	Percent of total production
Allen	11	828,390	521,799	63.0
Anderson	5	746,648	625,918	83.8
Butler	24	8,757,870	2,624,811	29.9
Franklin-Miami	14	1,139,648	785.945	69.0
Greenwood	43	6.141.476	4.035,302	65.7
Neosho	9	617,628	390,014	63.1

The following zones listed in the order of their importance provided the bulk of the oil produced by 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. When combined fresh and salt water is used the brine is obtained commonly from the local oil-producing forma-Treatment of salt water includes aeration, addition of chemicals, settling, and filtration singly or in various combina-Fresh water requires treatment more commonly than 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 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 remains relatively constant.

#### NATURAL GAS

The shipping of natural gas through extensive pipe-line systems across state lines and the approval of new cross-country lines comes under the jurisdiction of the Interstate Commerce Commission and the Federal Power Commission, respectively. The apportionment of new lines and approval of transmission of gas is based on the consideration of the greatest good to the

greatest mass of people and on economic investment values. Considering these bases, Kansas, ranking sixth among the gasproducing states, fourth in reserves, yet with a relatively small population, has only a minor voice in the eventual use of the gas. Among Kansans, the producers, of course, want to export excess gas for income which returns to the State. On the other side of the question is the Kansas consumer, both domestic and industrial, who desires retention of the State's natural resource within the State's borders, arguing that exportation of our natural gas is depleting our reserves. As indicated in Figure 3, a significant portion of our annual gas production is being exported; however, it is to be noted that the State's consumption as a percentage of the total product, which includes domestic production and imports (Table 9), is now 66.4 percent, the highest it has been in recent years. Both domestic and industrial use of Kansas natural gas within the State has risen over the past few years.

Production and use.—The amounts of natural gas produced from the principal Kansas fields during 1954 are shown by county in Table 57. Production in the "eastern Kansas" fields, which had their peak production about 50 years ago, was less than 1 percent, while production from the Hugoton Gas Area in southwestern Kansas was more than 85 percent of the State's total for 1954.

Table 9 and Figure 3, showing some statistics on Kansas natural gas from 1951 through 1954, reveal some important

Table 9.—Statistical summary of Kansas natural gas production and use, 1951-1954\*

	Millions	of M cu	. ft. at 1	4.65 psia	Percentage change 1953-1954	
	1951	1952	1953	1954		
Natural gas produced in Kansas Imported from outside the State	407.1 47.8	408.7 67.2	420.6 48.2	405.8 65.5	- 3.5 +35.9	
Total to account for	454.9	475.9	468.8	471.3	+ 0.5	
Gas consumed in Kansas during year Domestic Industrial, misc., and losses Carbon black	95.2 131.0 17.4	101.9 138.9 15.6	102.0 141.0 10.9	104.2 156.2 8.9	+ 2.2 +10.8 -18.3	
Total Kansas consumption	243.4	256.4	253.9	269.3	+ 6.1	
(Consumption as pct. of prod.) Exported from State	(59.8) 211.5	(62.7) 219.5	(60.4) 214.9	(66.4) 202.0	+ 9.9 - 6.0	
Total	459.9	475.9	468.8	471.3	<b>— 0.5</b>	

<sup>•</sup> Figures provided by Conservation Division, Kansas Corporation Commission.



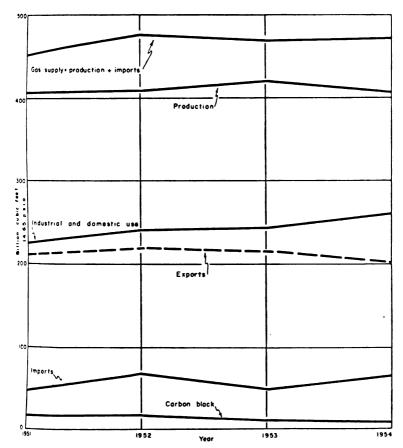


Fig. 3.—Use and disposition of Kansas natural gas.

trends. The production of natural gas from 1951 through 1953 showed annual increases. During 1954, importation from outside the State increased about 36 percent and exportation of natural gas decreased a little more than 6 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 is supplemented by the use of natural gas liquids. Production of carbon black dropped about 18 percent during 1954. About 43 percent of our total gas production (produced and imported) was exported during 1954. This percentage of exportation of natural gas is believed to be a smaller proportion than most Kansans realize.

New developments.—Twenty-three new gas pools (22 gas, 1 oil and gas) were discovered in Kansas during 1954. Seven of these new gas pools were discovered in Barber County with production from either the "Douglas sand" or Mississippian rocks. Topeka limestone and Toronto limestone gas production was found below the gas-bearing Chase group rocks of the Hugoton Gas Area in Seward County. Additional gas reserves in Morrowan rocks in Stanton County were discovered.

Twenty-six gas wells were completed in the Greenwood Area, which is now limited by definition to gas-producing rocks of the Lansing-Kansas City group and younger. During 1954, 20.7 billion cubic feet of gas was produced from 50 wells in the Greenwood Area, now the second largest gas field in the State.

The ordering of a new minimum base price of 11 cents per thousand cubic feet at 14.65 psia for Kansas natural gas from the Hugoton Gas Area effective January 1, 1954, is an important boost to the State's income from this natural resource.

The Hugoton Gas Area.—The Hugoton Gas Area, with its extension 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 portion of the field, more than 50 percent of the total, is shown by years in Table 10. It is significant to the State's economy that production from the Kansas portion of the field has increased from about 33 million cubic feet annually in 1939 to a high of 387 million cubic feet in 1953. Production during 1954 was more than 346 million cubic feet.

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

TABLE 10.—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)
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	1953	387,635,243
1946	119,637,983	1954	346,732,192



TABLE	11.—Gas	wells	drilled	in	Hugoton	Gas	Area	bу	counties	since	1948

	1947	1948	1949	1950	1951	1952	1953		1954
	Cumu-	Drilled	Cumu-						
Finney	66	20	76	47	19	49	73	72	422
Grant	269	65	89	36	68	29	6	5	567
Hamilton	2	2	2	1	8	8	10	4	37
Haskell	127	44	42	39	33	30	27	39	381
Kearny	155	49	71	51	56	75	72	44	573
Morton	61	25	6	52	62	27	31	14	278
Seward	26	22	41	91	51	10	19	42	302
Stanton	94	31	9	17	25	7	27	24	234
Stevens	470	75	77	63	16	17	4	20	742
	1,270	333	413	397	338	252	269	268	3,540

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. At the close of 1954, there were 3,346 producing gas wells and the area of the Kansas part of the Hugoton Gas Area was about 2,524,000 acres. It includes two entire counties (Stevens and Grant) and parts of seven others (Finney, Hamilton, Haskell, Kearny, Morton, Seward, and Stanton). Revised figures on the number of wells drilled each year since 1948, and the cumulatives are given in Table 11.

Through the assistance of the Conservation Division of the Kansas Corporation Commission and Mr. D. R. Dwight of Dwight's Oil and Gas Reports, county production figures and total county cumulatives have been prepared for this bulletin. These data are given in Table 12.

The production 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 1954 by wells having been reported with initial daily capacities of 1 million cubic feet or more. Gas wells drilled previous to 1954 are not shown on Plate

Cumulative 1954 Cumulative production producproduction to end of 1953. tion. to end of 1954. County M cu. ft. M cu. ft. M cu. ft. **Finney** 151,748,079 28,048,734 179,796,813 612,768.003 Grant 537.002.364 75,765,639 Hamilton 8.349.827 4,436,105 12,785,932 25,528,913 Haskell 192.850.837 218,379,750 Kearny 346.563.888 61.466.542 408.030.430 Morton 159,748,135 24.867.522 184.615.657 128,612,325 19,585,230 Seward 109,027,095 13,780.190 74,870,444 Stanton 61,090,254 Stevens 1,174,319,764 93,253,317 1,267,573,081 Total 2,740,700,243 346,732,192 3.087.432.435

TABLE 12.—County production and cumulatives, Hugoton Gas Area\*

2. The porosity of the rocks of the Chase group in the Hugoton Gas Area 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.

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 groups 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 gallons 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

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

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

<sup>\*</sup> Base 14.65 psia.

natural gasoline plants are within the borders of the Hugoton Gas Area as are the State's three carbon black plants.

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.— There were 15 natural gasoline plants reported operating in Kansas at the close of 1954, two fewer than the previous year. The Cities Service Oil Company plant at Arkansas City in Cowley County reported no production, and the A. R. Jones Oil and

TABLE 14.—Natural gasoline and LPG processed in 1954\*
(From the Conservation Division, Kansas Corporation Commission)

	Natural gas.	Butane	Propane	LPG	Total
Cities Service Oil Company					
Burrton, Reno Co.	70,658		27,514	72,133	170,30
Wichita, Sedgwick Co.	460,346		158,714	119,000	738,060
Colorado Interstate Gas Co. Lakin, Kearny Co.	78,144				78,144
Deerfield Petroleum, Inc. Deerfield, Kearny Co.	106,866		21,266	28,475	156,607
Drillers Gas Company Cheney, Sedgwick Co.	17,568		***********	7,130	24,698
Dunn-Mar Oil & Gas Compan Otis, Rush Co.	y 41,633			3,465	45,098
Hugoton Production Company Ulysses, Grant Co.	180,799	112,720	142,477	•	435,996
A. R. Jones Oil & Oper. Co. Pawnee Rock, Barton Co.	857	(Drip from v			857
Kansas Power & Light Compa Medicine Lodge, Barber Co				** *******	49,607
Magnolia Petroleum Company Ulysses, Grant Co.	156,118	94,307	67,575	9,559	327,559
Northern Natural Gas Compar	ıy				
Holcomb, Finney Co. Sublette, Haskell Co.	79,909 313,391				79,909 313,391
Panhandle Eastern Pipe Line					,
Liberal, Seward Co.	447,215	101,313	100,725		649,253
Skelly Oil Company Cunningham, Kingman Co.	47,429	3,946		50,869	102,244
Stanolind Oil & Gas Company Ulysses, Grant Co.	433,167	557,167	386,272		1,376,726
The Texas Company Atlanta, Cowley Co.	37,891			27,524	65,415
,			004 542	210.155	4 012 000
	, .	869,573	904,543	318,155	4,613,869
954 daily average in barrels					
953 daily average in barrels					13,80′

Figures in 42-gallon barrels.



TABLE 15.—Production and estimated value of natural gas liquids in Kansas, 1954\*

	Barrels	Gallons	Unit price	Value
Natural gasoline	2,521,598	105,907,116	\$2.95	\$ 7,438,714
Propane	904,543	37,990,806	\$0.05	\$ 1,899,540
Butane	869,573	36,522,066	\$0.05	\$ 1,826,103
LPG	318,155	13,362,510	\$0.045	\$ 601,313
Totals	4,613,869	153,782,498		\$11,765,670

<sup>\*</sup> Production figures supplied by Kansas Corporation Commission; average values at point of production have been obtained from sources considered to be

Operating Company operations in Barton County shut down June 30, 1954.

The daily average production of natural gasoline and LPG in 1954, as reported by the Conservation Division of the Kansas Corporation Commission, was 12,640 barrels. A breakdown of type of production and producing plants is given in Table 14. The State's output during 1954, broken down into four main products, together with estimated values at the plants, is shown in Table 15. Production from Kansas plants for the last 12 years is shown in Table 16.

The use of LPG with natural gas in the processing of carbon black has declined steadily over the past 3 years until it is now negligible. Only 1,237 barrels was reported used for carbon black during 1954.

Low-cost temporary storage is 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, storage has been in underground cavities washed out of the salt beds.

Reserves of natural gas and natural gas liquids.—During 1954 proved reserves of natural gas in Kansas (as estimated by the Reserves Committee of Am. Petroleum Institute and Am. Gas Assn.) decreased 0.2 percent, while the natural gas reserves for the nation increased 0.1 percent. There are 15.8 trillion cubic feet of natural gas estimated to be in reserve in the State as of January 1, 1955. Hydrocarbon liquids contained in the proved reserves of gas are more than 175 million barrels, a decrease of 1.4 percent. Estimate figures are given in Table 17.

193,783

Production. Production. Year M gals. Year M gals. 1943 85,206 1949 113,807 1944 69.834 1950 155,233 182,932 1945 72,637 1951 1946 82.591 1952 196,462 1947 1953 211,657 99,195

TABLE 16.—Kansas production of natural gasoline and allied products, 1943-1954\*

1954

107,563

Two important features of the reserve picture in Kansas at the end of 1954 are: (1) new discoveries and extensions of proved areas are being made about as rapidly as the producing areas are being depleted, and (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.

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 gasolines for motor vehicles and fuels for industrial and domestic use.

Reserve figures may be misleading unless properly interpreted. It must be kept in mind that the published petroleum reserve figures are clearly stated to represent proved reserves. The figures in Table 17 (API and AGA, 1954, p. 6) and other reserve figures used in this bulletin conform to the policy on

TABLE 17.—Kansas proved reserves of natural gas and natural gas liquids, December 31, 1954 (American Petroleum Institute and American Gas Association, 1954)

	Reserves*	Extensions	New dis-	Production	Proved	Nonassociated,	Changes	Percent-
	as of	and revisions	coveries	during	reserves	associated,	in reserves	age change
	12-31-53	1954	1954	1954	12-31-54	and dissolved	during 1954	1953-1954
Natural gas liquids Natural gas	177,728 15,787,602	285 179,140	2,448 233,601	5,264 452,779	175,197 15,758,332	15,706.370	2,531 29.270	—1.4 —0.2

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.

1948

Figures from 1943 through 1948 from World Oil (1951, p. 154). Figures for 1949 through 1954 supplied by Kansas Corporation Commission.

reserves of the Reserves Committee of API and AGA and "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 also 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 and increased for many years by current new developments in spite of high annual consumption.

#### **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 16 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. Harvey, Sedgwick, and Sumner Counties, which cross this line, are considered as western 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 1954 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.



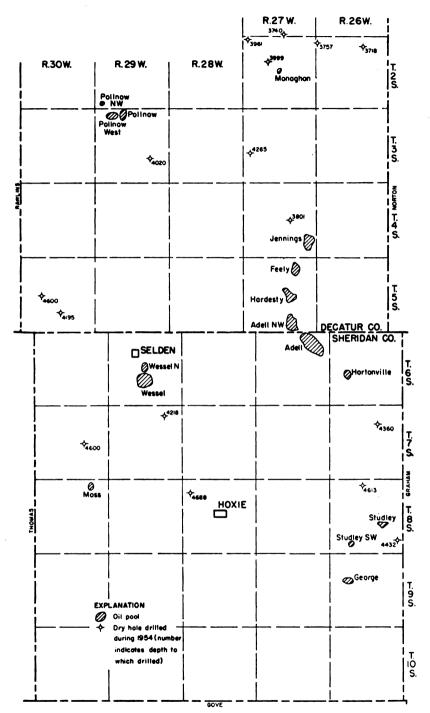


Fig. 4.—Map of Decatur and Sheridan Counties.

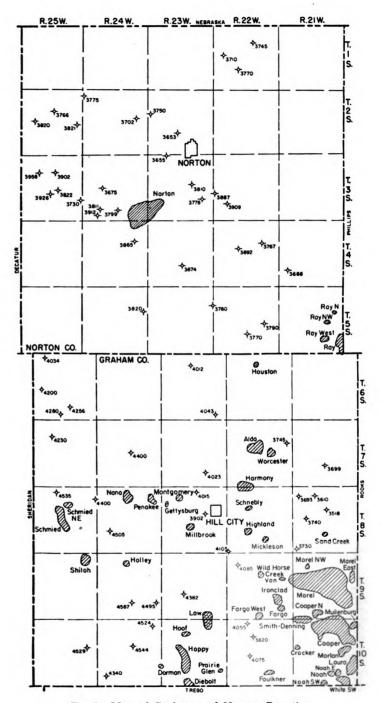


Fig. 5.—Map of Graham and Norton Counties.



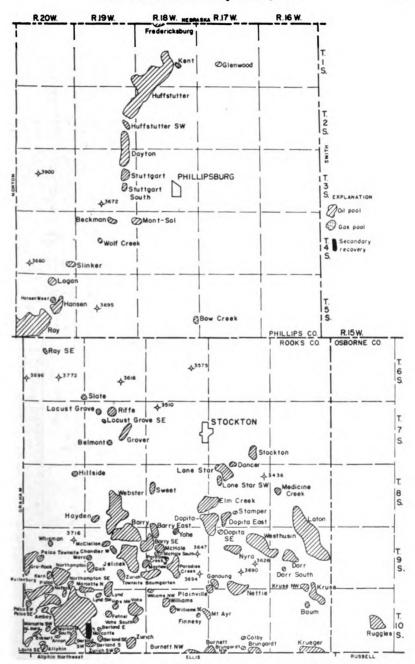


Fig. 6.—Map of Phillips and Rooks Counties and part of Osborne County.

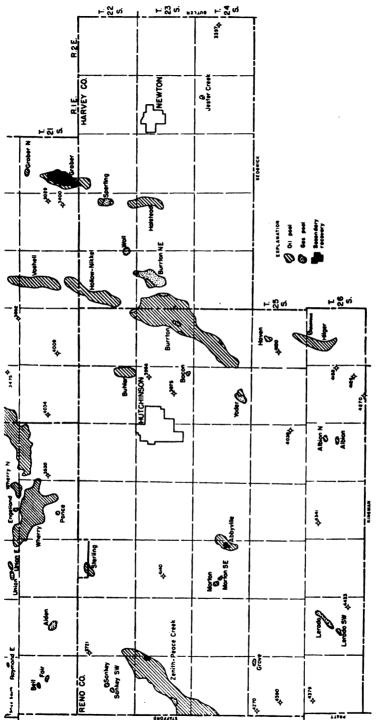


Fig. 7.-Map of Ellsworth, Harvey, McPherson, Reno, Rice, and Saline Counties.

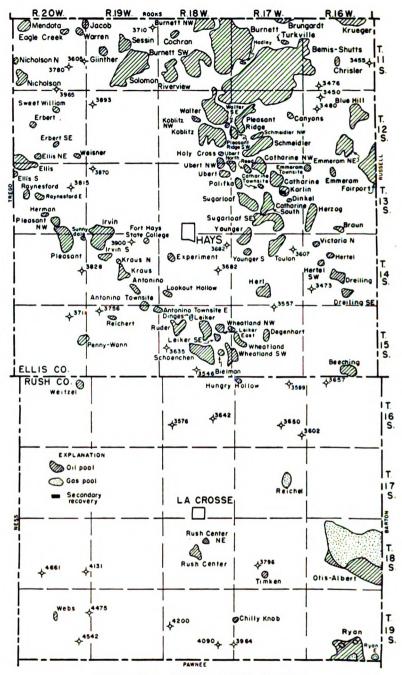


Fig. 8.—Map of Ellis and Rush Counties.

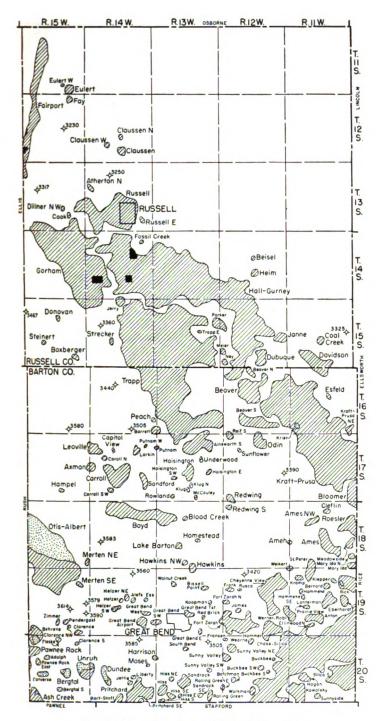
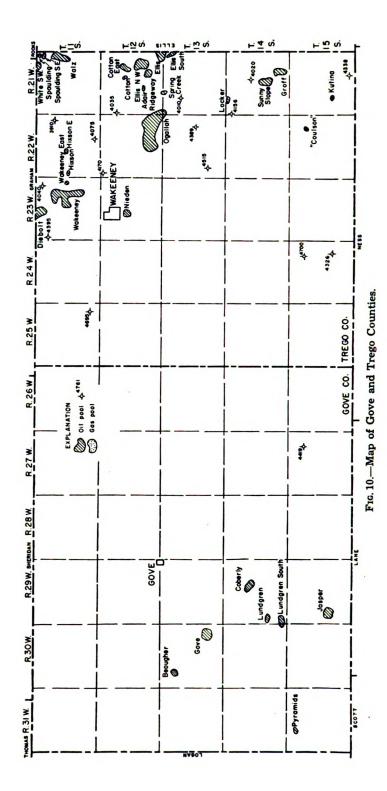
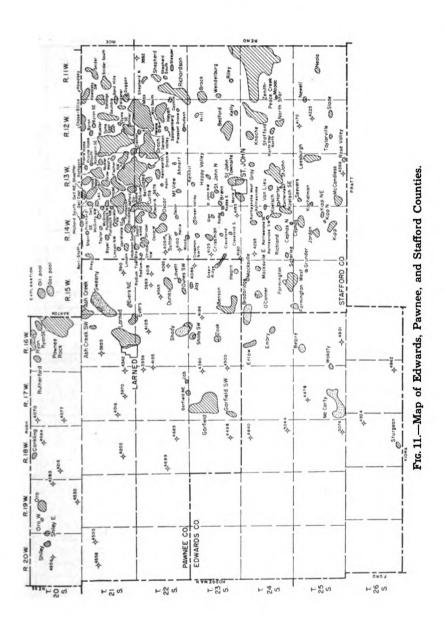


Fig. 9.—Map of Barton and Russell Counties.





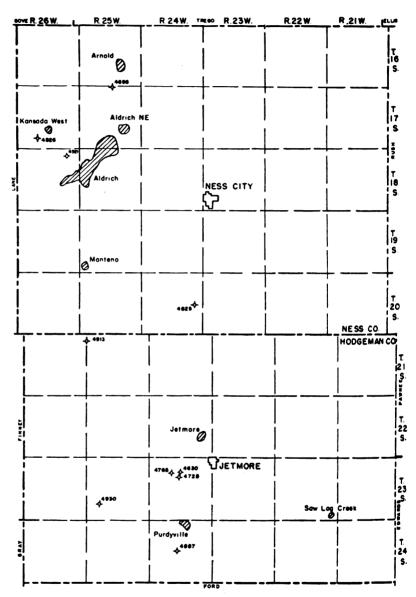


Fig. 12.—Map of Hodgeman and Ness Counties.

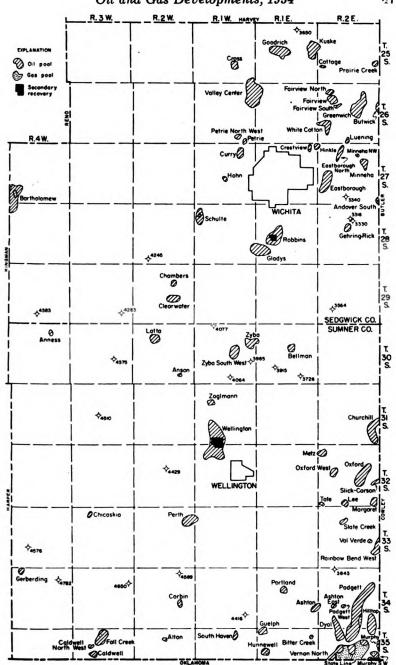
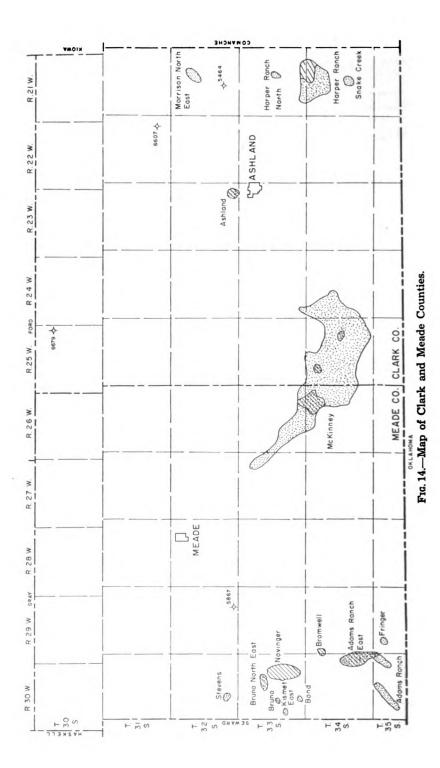


Fig. 13.—Map of Sedgwick and Sumner Counties.



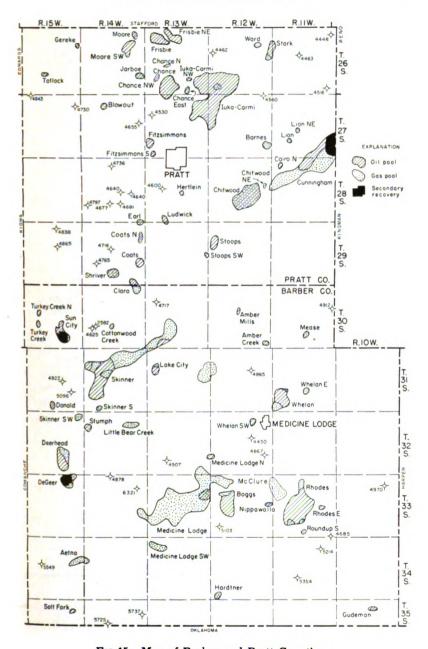


Fig. 15.—Map of Barber and Pratt Counties.

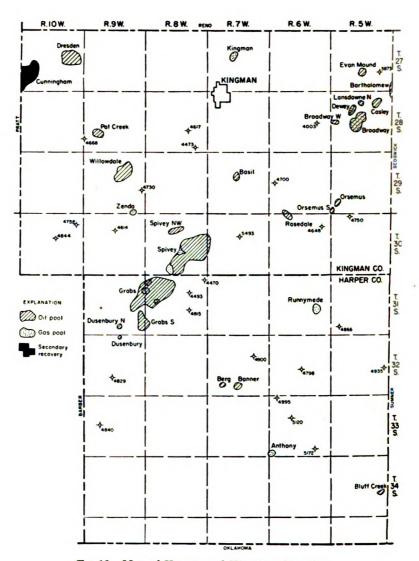


Fig. 16.—Map of Harper and Kingman Counties.

## (Map Pl. 1)

The 1954 production: oil from 35 areas in 10 fields 828,390 barrels including approximately 521,799 barrels from secondary recovery operations, gas 317,715 thousand cubic feet. Wells drilled in 1954 (estimated): oil 228, dry 48, input and/or salt-water disposal 65, total 341.

Developments during 1954.—Allen County's oil production increased more than 35 percent over 1953. The greatest reported drilling activity was in the large **Humboldt-Chanute** field and mostly in connection with water-flooding operations.

Oil production in Allen County fields in 1954 is listed in Table 56. Gas production is listed in Table 57. Locations of areas from which oil was produced in 1954 and locations of secondary recovery projects are shown on Plate 1. Secondary recovery data are listed in Table 1.

#### ANDERSON COUNTY

(Map Pl. 1)

The 1954 production: oil from 16 areas in 9 fields 746,648 barrels including 625,918 barrels from secondary recovery projects, gas none. Wells drilled in 1954 (estimated): oil 168, dry 30, input and/or salt-water disposal 43, total 241.

Developments during 1954.—Anderson County's oil production increased more than 14 percent over that of 1953. Most of the drilling activity was in connection with secondary recovery operations. No wildcat wells were reported.

Oil production in Anderson County in 1954 is listed in Table 56. Locations of areas from which oil was produced in 1954 and of secondary recovery projects are shown on Plate 1. Data on secondary recovery projects are listed in Table 1.

### BARBER COUNTY

(Map Fig. 15)

The 1954 production from 34 pools: oil 1,372,244 barrels, gas 8,970,191 thousand cubic feet. Wells drilled in 1954: oil 55, gas 19, dry 41, total 115 including 19 dry wildcats. New pools discovered 12, combined 4. Secondary recovery projects 2.



Developments during 1954.—Oil production in Barber County increased more than 175,000 barrels during 1954. Gas production also showed a gain. The increase in oil production came mostly from the **Rhodes** field. Drilling activity more than doubled the preceding year's figure.

Of the new pools five are oil pools and seven are gas pools. The new oil pools are named Gudeman, Medicine Lodge North, Rhodes East, Salt Fork, and Whelan Southwest. In all except the Gudeman oil production is from the Mississippian chert zone. In the Gudeman pool production is from the Viola limestone. The new gas pools are the Hardtner, Little Bear Creek, McClure, Mease, Medicine Lodge Southwest, Rhodes North, and Whelan East. Four of these are in a sandstone in the Douglas group while the other three are in the Mississippian chert zone.

Before the close of the year the new Rhodes North pool was joined to the Rhodes field, as were the Gerlane and Roundup pools. The Skinner North pool was combined with the Skinner pool.

The most promising new oil pool is the **Gudeman**, 4 miles east of Kiowa in sec. 10, T. 35 S., R. 10 W. The discovery well, drilled by the Aurora Gasoline Company on the Gudeman farm, tested all zones including the Arbuckle dolomite. A good show of oil was found 6 feet below the top of the Viola limestone at 5,158 feet depth. When the test was plugged back to this formation and perforated between 5,153 and 5,162 it flowed 10 barrels of oil per hour. An official production test resulted in an assignment of 593 barrels of 41 degree gravity oil per day. This well is important because it flows naturally, because it has such a high initial potential, and because it is 9 miles from any other production.

A total of 45 new Mississippian oil wells were added to the **Rhodes**, Barber County's largest oil field, during 1954. Two new gas wells and only 2 dry holes were completed in the field.

The repressuring project operated by the Great Lakes Carbon Corporation in the Sun City field reported no new developments. A secondary recovery permit was issued to the Lion Oil Company for use in the DeGeer field. Data on these projects are given in Table 1.

Eleven of the 19 dry wildcat tests drilled in the county during the year reported shows of oil and/or gas. Data on the significant



marker zones encountered in drilling these wildcats are given in Table 18. The locations of these dry wildcats and of producing fields are shown on Figure 15. Data on the new pools are given in Table 6. Oil production is given in Table 56 and gas production in Table 57.

TABLE 18.—Dry wildcat tests drilled in Barber County during 1954

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
Pickrell Drlg. et al. No. 1 Dolbow	NE NE NE 13-30-11W	3,865	4,663	4,847	4,912
Anschutz Drlg. Co. No. 1 Knackstedt	NE NE SE 7-30-13W	3,905	4,503	4,682	4,717
W. J. Coppinger No. 1 McLain	Cen. N½ NE 30-30-14W	NE 3,912	4,454	4,602	4,625
Graham-Messman-Rine- hart No. 1 Updegraff	NE NE NE 15-31-12W	3,832	4,638	4,827	4,865
Rupp-Ferguson Oil Co. No. 1 Dickerson	NE NE NE 22-31-15W	3,972	4,621	4,874	4,922
Herndon Drlg. & Flynn Oil No. 1 Dickerson	NE NE NE 26-31-15W	4,037	4,841	5,070	5,096
Musgrove Petroleum Corp. No. 1 "A" Gillespie	NE NW SE 15-32-12W	3,794	4,349**		4,430
R. C. Patton Co. et al. No. 1 G. L. Bloom	NW NW NW 25-32-12W	3,780	4,630	4,832	4,867
Helmerich & Payne, Inc. No. 1 Hopkins	NE SW SE 29-32-13W	3,917	4,407**	•	4,507
Mayfair Minerals, Inc. No. 1 Garner	NE NE NW 11-33-10W	3,951	4,716	4,938	4,970
Rupp-Ferguson Oil Co. No. 1 Powell	SW SW SW 36-33-11W	4,157	4,581**		4,685
Rupp-Ferguson Oil Co. No. 1 Hall	NE NW NE 31-33-12W	3,874	4,796	5,068	5,103
E. H. Adair et al. No. 1 Allen	Cen. NW NW 4-33-14 W	4,172	4,735**		4,878
Sohio Petroleum Co. No. 1 Angell	SE SE SE 11-33-14W	4,178	5,006	5,267	5,321
Rupp-Ferguson Oil Co. No. 1 Koontz	NW NW NE 11-34-11W	4,150	4,880	5,176	5,214
Natl. Coop. Ref. Assn. No. 1 Wiley	NW NW NW 28-34-11W	4,248	5,036	5,320	5,354
Barbara Oil Co. No. 1 Brach	NE NE SW 17-34-15W	4,127	5,103	5,412	5,549
W. J. Coppinger No. 1 Sternberger	NW NW SE 12-35-14W	4,231	5,366	5,677	5,737
City Products Corp. No. 1 Wolgamott	S½ SW NW 16-35-14W	4,168	5,364	5,672	5,725

<sup>\*</sup> No electric or radioactivity logs 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.

# BARTON COUNTY (Map Fig. 9)

The 1954 production from 138 pools: oil 16,353,520 barrels, gas 2,170,509 thousand cubic feet. Wells drilled in 1954: oil 180, gas 1, dry 116, total 297 including 12 dry wildcats. New pools discovered 13, combined 2.

Developments during 1954.—Drilling activity declined 31 percent from the previous year. Oil and gas production declined only slightly. Barton County remained the State's leading oil-producing county.

Exploration in Barton County resulted in the discovery of 13 new pools; 12 yield oil and 1 is a gas pool. Of the new oil pools 6 are in the Lansing-Kansas City group. These are the Bissell Point, Claffin, James, Sandrock Southeast, South Bend, and Sunny Valley Southwest. The Arbuckle dolomite is the produc-

TABLE 19.—Dry wildcat tests drilled in Barton County during 1954

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
*Shelley-Miller Drlg., Inc. No. 1 Nuss	SW SW NW 9-16-14W	3,159	3,415	3,440
*J. J. Lynn No. 1 Kingston	NW NW SE 34-16-14W	3,212	3,477	3,505
Schermerhorn Oil Corp. No. 1 Hester	SW SW NW 35-16-15W	3,276	3,548	3,580
*Lohmann-Johnson Drlg. Co., Inc. No. 1 Beran	NW SW NE 24-17-12W	3,071	3,365	3,390
J. J. Lynn No. 1 Schneider	NE NE SE 19-18-14W	3,257	3,534	3,583
Shelley-Miller Drlg., Inc. No. 1 Held	NE NE SE 5-19-12W	3,107	3,379	3,420
Leon F. Huff No. 1 Chadwick	SE SE NE 3-19-14W	3,241	3,530	3,560
Helmerich & Payne, Inc. No. 1 Button	SW SW NW 23-19-15W	3,258	3,572	3,614
*Shelley-Miller Drlg., Inc. No. 1 Russell	NE NW NE 24-19-15W	3,230	3,543	3,579
*The El Dorado Refg. Co. No. 1 Gagelman	NE NE NW 25-19-15W	3,236	3,577	3,590
Harry Gore No. 1 Carroll	SW SW NE 2-20-13W	3,190	3,441	<b>3,5</b> 05
Schermerhorn Oil Corp. No. 1 Stoskopf	NE SE NW 2-20-14W	3,220	3,572	3,585

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



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ing zone in the Carroll North, Hoisington East, Hoisington Southwest, and Sunny Valley Northeast, and the Simpson sandstone the producing zone in the Jettie pool. In the Clarence Northwest pool, oil was found in crevices in Pre-Cambrian quartzite at depths of 3,531 to 3,543 feet. In the new gas pool, the Clarence South, gas is produced from a thin sandstone within the Pennsylvanian basal conglomerate at a depth of 3,606 feet. Data on the new pools are given in Table 6.

Three new oil zones were discovered in old producing fields during 1954. The nomenclature committee lists them as the Reagan sandstone in the Clarence pool and the Lansing limestone in the Great Bend Townsite and Koopman pools. Table 7 gives data regarding these new producing zones.

During the year two pools having the same producing zones were declared common reservoirs and were combined with other pools. These are the **Hammer North** combined with the **Cheyenne View** and **Bieberle** pool with the **St. Peter.** 

Of the 12 dry wildcat tests drilled during the year, only 3 reported shows of oil. Data on the important marker zones in these dry wildcat tests are given in Table 19. Their locations are shown on Figure 9.

A total of 33 old wells were either drilled deeper or worked over during 1954, resulting in 24 oil, 1 gas, 4 dry, and 4 saltwater disposal wells.

Barton County oil fields with more than 10 new wells each during 1954 are Boyd 13, Chase-Silica 18, Great Bend Townsite 12, Kraft-Prusa 11, Odin 16, and St. Peter 14.

The oil production statistics by fields are given in Table 56 and gas production in Table 57. The oil and gas fields are shown on Figure 9.

# BOURBON COUNTY (Map Pl. 1)

The 1954 production: oil from 8 areas in 3 fields 62,382 barrels including secondary recovery production, gas none. Wells drilled in 1954 (estimated): oil 67, dry 15, total 82.

Developments during 1954.—An increase of 64 percent in oil production over that of 1953 took place. Drilling activity was



mostly in the Bronson-Xenia and Davis-Bronson areas in the western part of the county.

Oil production in Bourbon County is reported in Table 56. Locations of areas from which oil was produced in 1954 and locations of water-flooding projects in the county are shown on Plate 1. Data on Bourbon County's only secondary recovery project are listed in Table 1.

# BROWN COUNTY (Map Pl. 1)

The 1954 production from 1 field: oil 2,196 barrels, gas none.

Developments during 1954.—Production of 2,916 barrels of oil was reported from the Livengood field. No production was reported the previous year. Without any oil that may have been produced in 1953, the field's reported cumulative production at the end of 1954 stood at 86,330 barrels of oil (Table 56).

The location of the Livengood oil field is shown on Plate 1.

# BUTLER COUNTY (Map Pl. 1)

The 1954 production from 52 fields: oil 8,757,870 barrels including approximately 2,794,256 barrels from secondary recovery operations, gas none reported. Wells drilled in 1954: oil 138, dry 72, input and/or salt-water disposal 45, total 256 including 16 dry wildcats. New pools discovered 1, combined 3.

Developments during 1954.—The Pierce Northwest, a Mississippian limestone pool, was discovered in March by the E. H. Adair Oil Company No. 1 Corfman well, sec. 21, T. 25 S., R. 4 E. Initial daily production was reported as 20 barrels of oil. During the year 9 additional oil wells and 1 dry hole were drilled in the field. The field's yield during the year was 19,056 barrels of oil.

Oil production in Butler County was nearly 2 percent greater in 1954 than in 1953. Of the total production, 3,833,188 barrels of oil came from the **El Dorado** field, whose cumulative production has reached nearly 220 million barrels. Reported drilling in the field during the year included 30 new oil wells, 4 dry holes, 2 repressuring wells, and 2 disposal wells. The county's second field, the **Augusta**, yielded 475,991 barrels of oil; 24 new oil wells and 4 dry holes were reported in the field during the year. Other



fields with a significant number of new oil wells are: Fox-Bush 9. Mt. Tabor 9, Muddy Creek 13, and Snowden-McSweeney 6.

During the year the Hartenbower, Hartenbower South, and Semisch pools were combined with the Snowden-McSweeney.

Oil production in the various Butler County fields is listed in Table 56. Locations of areas from which oil was produced in 1954 and of secondary recovery projects are shown on Plate 1. Data on water-flooding operations are listed in Table 1. Data on the

TABLE 20.—Dry wildcat tests drilled in Butler County during 1954

Comment	•	Depth to top of K.C.,	Depth to top of Mis- sissippian,	Total depth,
Company and farm	Location	feet	feet	feet
*Beaumont Petro. Co. No. 1 Shields	NW NE SW 34-23-5E	2,022	2,647**	2,685
*Barker et al. No. 1 Wiebe	SW SE N W 31-23-6E	1,940	2,409**	2,425
*Coop. Ref. Assn. No. 1 "A" Lembka	NE NE NE 13-24-6E	2,059	2,756	3,303
*Eckland Drlg. No. 1 Cheney	SE SW NW 7-25-3E		2,774	2,782
*Rex & Morris Drlg. Co. et al. No. 1 Smith	SW SW NW 13-25-7E	2,040	2,765	2,798
*Allan & Brooks No. 1 Reddington	NE SW SW 28-26-4E	2,134	2,613	2,865
*E. H. Adair Oil Co. No. 1 Brooks	NE NE NE 30-26-4E	2,188	2,957†	2,971
Gramehart-Miller Oil Co. No. 1 Clark	NW NW SW 1-26-6E	2,096	2,776	2,810
*J. P. Gaty No. 1 James	NE SE NE 5-27-3E	2,341	2,819	3,240
*J. P. Gaty et al. No. 1 Lauck	W½ SW SW 28-27-3E	2,323	2,781	3,146
Rex & Morris Drig. Co. No. 1 Davis	SE SE SE 1-27-4E	2,122	2,640	2,993
*Salina Drlg. Corp., Inc. No. 1 Branson	NE NE SW 6-28-4E	2,166	2,664	2,945
Kewanee Oil Co. No. 1 Baughman	SW SE SW 25-28-6E	2,182	2,861	2,920
Fortier & Wright Drlg. Co. et al. No. 1 Singer	NW NW SW 36-28-6E	2,170	2,849	2,908
*Rains & Williamson Oil Co. No. 1 Ramp	NW NW SW 29-28-7E	2,130	2,828	2,878
*Augusta Oil Co. No. 1 Bolan	SE NW NW 9-29-7E	2,090	2,805	2,840

No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.
 Depth to the top of the Arbuckle, feet.

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Depth to the top of the Simpson, feet.

new pool are listed in Table 6, and data on dry wildcat wells drilled in the county in 1954 are given in Table 20.

# CHASE COUNTY (Map Pl. 1)

The 1954 production from 2 fields: oil 32,983 barrels including production from 1 secondary recovery project, gas 52,929 thousand cubic feet. Wells drilled in 1954 (reported): 1 dry wildcat.

Developments during 1954.—Oil production increased substantially over that of 1953, when 30,584 barrels was reported. No 1954 production was reported from the Bazaar field. The gas produced in the county was consumed in Cottonwood Falls, Elmdale, and Strong City.

The Evans and Yearout No. 4 Crosby, NE¼ NE¾ SW¼ sec. 23, T. 22 S., R. 9 E., an extension wildcat well northwest of the Teeter field, was abandoned as a dry hole late in the year, at a total depth of 2,421 feet. The top of the "first Bartlesville" was logged at 2,343 feet, and the top of the "second Bartlesville" at 2,370 feet. No pool wells were reported in the county.

Oil production statistics for 1954 in Chase County are listed in Table 56. Gas production is listed in Table 57. Locations of areas from which oil was produced in 1954 and of the dry wildcat well are shown on Plate 1. Data on the secondary recovery project are given in Table 1.

# CHAUTAUQUA COUNTY (Map Pl. 1)

The 1954 production: oil from 44 areas in 18 fields 952,603 barrels including approximately 24,380 barrels from secondary recovery operations, gas 198,623 thousand cubic feet. Wells drilled in 1954 (estimated): oil 755, dry 147, input and/or salt-water disposal 247, total 1,149 including 4 dry wildcats.

Developments during 1954.—Oil production in Chautauqua County was nearly 15 percent higher than in 1953, and drilling activity was increased greatly. Drilling took place mostly in the established fields. Four wildcat wells were reported. The M. K. Carnahan No. 1 Harry Austin, SW¼ NW¼ SE¼ (?) sec. 30, T. 32 S., R. 12 E., was abandoned at a total depth of 895 feet. The Bruenger et al. No. 1 Anderson was drilled to a total depth of 1,784 feet in the SE¼ SE¼ SW¼ sec. 33 T. 32 S., R. 13 E. The



La Salle Petroleum No. 3 Eggen, SE¼ SE¼ NW¼ sec. 11, T. 33 S., R. 10 E., had a total depth of 2,041 feet. The R. E. Mendenhall et al. No. 1 Gardner, NE¼ sec. 8, T. 33 S., R. 13 E., was abandoned at a depth of 2,128 feet.

Data on oil production in Chautauqua County in 1954 are listed in Table 56. Gas production is listed in Table 57. Data on secondary recovery projects are included in Table 1. Locations of areas from which oil was produced in 1954 and of secondary recovery projects are shown on Plate 1.

#### CHEYENNE COUNTY

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

Exploration during 1954.—Only one dry wildcat was drilled in Cheyenne County during 1954. A. J. Hammer drilled this unsuccessful Mississippian test in the SW¼ SW¼ NW¼ sec. 32, T. 2 S., R. 39 W. in August. From an elevation of 3,285 feet above sea level, the following tops were reported: Stone Corral dolomite, 2,720 feet; Lansing-Kansas City group, 3,770 feet; and Mississippian rocks, 4,510 feet depth. The hole was drilled 210 feet into the Mississippian rocks before abandonment.

# CLARK COUNTY (Map Fig. 14)

The 1954 production from 6 fields: oil 135,970 barrels, gas 757,358 thousand cubic feet. Wells drilled in 1954: oil 17, gas 5, dry 6, total 28 including 3 dry wildcats. New pools discovered 2.

Developments during 1954.—Production of oil from Clark County during 1954 was almost 5 times the previous year's figure, owing mainly to more than 119,000 barrels of oil produced from the Harper Ranch field, where 17 new Morrowan oil wells were completed this year. Gas production from the county increased slightly over last year.

Two new discoveries were made in Clark County during 1954. The Sinclair Oil and Gas Company No. 1 Combrink well in the Cen. NW¼ SE¼ sec. 22, T. 33 S., R. 21 W. found a new gas pool in Morrowan rocks from 5,318 to 5,336 and 5,350 to 5,360 feet depth. The new pool was named Harper Ranch North; an initial potential of 8 million cubic feet of gas per day was assigned the



discovery well. The other new pool was discovered by the Shamrock Oil and Gas Corporation No. 1 Stephens well, Cen. SE¼ SE¼ sec. 10, T. 32 S., R. 21 W. Production of 14 million cubic feet of gas and 42 barrels of distillate per day is from Morrowan rocks from 5,193 to 5,207 feet depth.

Three wildcat wells were drilled in the county during 1954. Two of these were rank wildcats; the third, the Shamrock Oil and Gas Corporation No. 1 Randel "D" in the SE¼ SE¼ NW¼ sec. 28, T. 32 S., R. 21 W., was drilled about 2 miles southeast of the abandoned Morrison field. In this test to the Mississippian, several unsuccessful drill-stem tests were taken. Important marker zones are the Lansing-Kansas City group topped at 4,540 and Mississippian rocks at 5,360 feet depth. Total depth was 5,464 feet.

The Shell Oil Company rank wildcat was on the Stratton lease in the SE¼ SE¼ NW¼ sec. 12, T. 30 S., R. 25 W., in the northwesternmost township in the county. Important marker zones are Stone Corral dolomite, 1,475; Topeka limestone, 3,877; Lansing-Kansas City group, 4,500; Mississippian rocks, 5,285; Viola limestone, 6,397; Simpson group, 6,532; and Arbuckle dolomite, 6,573 feet depth. Total depth was 6,679 feet.

The Texas Company drilled an Arbuckle test on the Moore farm in the NW¼ NW¼ SW¼ sec. 25, T. 31 S., R. 22 W., to a total depth of 6,607 feet. Although considerable testing was done, the well was not commercial. Tops reported are: Stone Corral dolomite, 1,019; Lansing-Kansas City group, 4,352; Mississippian rocks, 5,090; Viola limestone, 6,164; Simpson group, 6,310; and Arbuckle dolomite, 6,450 feet depth.

Oil production for the county is given in Table 56 and gas production in Table 57. The locations of the dry wildcat tests and the areas of production are shown on Figure 14.

# COFFEY COUNTY (Map Pl. 1)

The 1954 production: oil from 15 areas in 10 fields 214,172 barrels, gas 9,551 thousand cubic feet. Wells drilled in 1954 (estimated): oil 170, dry 34, total 204 including 4 (reported) dry wildcats.

Developments during 1954.—Coffey County's oil production was more than 100 percent greater than in 1953. The Leroy field,



Company and farm	Location	Depth to base of K.C., feet	Depth to top of "Squirrel sand," feet	Depth to top of Mississippian, feet	Total depth, feet
'Woltz No. 1 Strawn	SW SW SW 36-20-14E	890	1,190	1,573	1,610
'Anderson-Prichard Oil Corp. No. 1 A. G. Hildebrand	SE SE SE 24-22-16E	621	992	1,278	1,285
'Ale Oil Co. No. 1 Kimbwerlin	CSL SW 17-22-17E	•••••	*******	•	1,075
'Anderson-Prichard Oil Corp. No. 1 Botham	NW SW NW 19-22-17E	612	983		1,060

TABLE 21.—Dry wildcat tests drilled in Coffey County during 1954

opened in 1905 but abandoned for many years previous to its revival in 1951, accounted for 90,410 barrels of oil. The 1953 production was 8,484 barrels and in each of the two previous years the yield was slightly more than 1,000 barrels of oil. This remarkable revival of an oil field is due to the use of hydraulic fracturing in a large number of wells. New producing areas have been added beyond the officially defined limits of the Leroy and Leroy North fields (Pl. 1).

Locations of areas in Coffey County from which oil was produced in 1954 and of reported dry wildcat wells drilled during the year are shown on Plate 1. Data on the wildcat wells are listed in Table 21. Oil production statistics are listed in Table 56. Gas production is listed in Table 57.

#### COMANCHE COUNTY

The 1954 production from 1 field: oil 264 barrels, gas none reported. Wells drilled in 1954: dry 7 including 5 dry wildcats.

Developments during 1954.—The first reported oil production from within the county's borders amounted to 264 barrels from the **Robbins Ranch** pool, discovered in 1953.

Efforts to enlarge the **Robbins Ranch** gas pool were unsuccessful. The Barbara Oil Company drilled a Mississippian test on the ranch in sec. 14, and F. K. Johnson drilled one in sec. 15, T. 31 S., R. 16 W.

Four of the five dry wildcat tests were drilled near the southern border of the State. Three of the five tests penetrated Arbuckle dolomite and the others stopped after entering Missis-

<sup>&#</sup>x27;No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

Surface Depth to Depth to Totai elevatop of top of Lans.-K.C., depth tion, Arbuckle, Company and farm Location feet feet feet feet 5,161\*\* 5,261 \*Rupp-Ferguson Oil Co. NW NW NW 2,161 4,508 No. 1 Brinkman 32-31-18W NW NW NW 1,812 4,498 6,294 6,500 Graham-Messman-Rinehart 28-34-17W No. 1 Jackson NE SW NE 4.584 6,124 6,208 Champlin Refg. Co. 1.899 16-35-16W No. 1 McMoran Cen. NW SW 1,964 4,760 6,720 6,815 Eason Oil 10-35-17W No. 1 O'Connell 5,650 Falcon Seaboard Drlg. Co. Cen. NE NE 1,766 4,516 5.530\*\* No. 1 Alexander 5-35-20W

TABLE 22.—Dry wildcat tests drilled in Comanche County during 1954

sippian rocks. Considerable testing was done in all these rank wildcats. Depths to the tops of some important marker zones penetrated in drilling these wildcat tests are given in Table 22.

The Robbins Ranch field is listed in Tables 56 and 57.

### COWLEY COUNTY

(Map Pl. 1)

The 1954 production: oil from 71 fields 4,363,797 barrels including approximately 596,633 barrels from secondary recovery operations, gas 635,037 thousand cubic feet. Wells drilled in 1954 (reported): oil 200, dry 134, salt-water disposal 3, total 337 including 21 dry wildcats. New pools discovered 6, combined 1.

Developments during 1954.—Six new oil pools were named in Cowley County in 1954 (Table 6). The Arkansas City Southwest, a "Hoover sand" pool, was found by the Martin and Cash Drilling Company No. 1 Putnam well, SW¼ SE¼ sec. 35, T. 34 S., R. 3 E. The reservoir was reached at a depth of 1,981 feet. Production amounting to 25 barrels of oil per day was established. The Church field was opened by the Saco Oil Company No. 1 Church well, SE¼ SW¼ sec. 13, T. 31 S., R. 6 E., which was completed in July with an established daily production of 13 barrels of oil in Mississippian limestone between depths of 2,935 and 2,947 feet. The L. C. Smitherman No. 1 Henderson well, NW¼ SW¼ SE¼ sec. 34, T. 31 S., R. 6 E., opened the "Henderson" field. The field is not listed by the Nomenclature Committee. The discovery well was completed in September with an estab-

No electric or radioactivity logs 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.

TABLE 23.—Dry wildcat tests drilled in Cowley County during 1954

		Surface eleva- tion,	Depth to top of K.C.,	Depth to top of Mis- sissippian.	Total depth,
Company and farm	Location	feet	feet	feet	feet
*Earl F. Wakefield No. 1 Parkerson	NE NW NW 35-30-5E	1,334	2,277	•••••	2,929
<ul> <li>J. Boris Kramer</li> <li>No. 1 Gentry</li> </ul>	NW NE NW 31-31-4E	1,137	2,396	2,994	3,005
E. H. Adair Oil Co. No. 1 Shiflet	NW NW NE 31-31-5E	1,231	2,370	2,976	2,996
*Rex & Morris Drlg. Co. et al. No. 1 Kielhorn	SW SW SW 21-31-7E	1,250	2,036	2,776	2,822
Rex & Morris Drlg. Co. No. 1 Ferguson	NE NE NE 19-31-8E	1,421	1,914	<b>2,757</b>	2,810
*Rex & Morris Drlg. Co. No. 1 C. E. Kielhorn	NE NE NW 29-31-8E	1,487	2,082	2,820	2,865
Kriswell Drlg. Co. No. 1 Jarvis	SW SW SW 7-32-8E	1,264	2,050	2,689	2,709
*Gough Davis No. 1 Walker	SE SE SW 8-32-8E	1,321	2,085	2,694	2,739
*Gough Davis No. 1 Jarvis	NE NE NE 19-32-8E	1,249	1,780**	••••	1,870
*Kirkpatrick No. 1 Jarvis	NW Lot 2 30-32-8E	1,255	2,106	2,729	2,760
Smitherman-Cohen Drlg. Co. et al. No. 1 Miller	SE SE SE 3-33-4E	1,115	2,495	3,037	3,092
*Smitherman-Cohen Drlg. Co. No. 1 Sherard	SE SE SE 4-33-4E	1,117	2,533	3,083	3,130
Carl Perry et al. No. 1 Gross	NE NE NW 23-33-5E	1,169	2,427	3,022	3,040
*Rex & Morris Drlg. Co. No. 1 Airport	NW NW SW 31-33-5E	1,114	2,580	3,126	3,162
Stearns Drlg. Co. et al. No. 1 Brown	NW NW NW 36-33-5E	1,167	2,550	3,099	3,125
*Saffa Oil Co. No. 1 Jarvis	NE NE NE 27-33-7E	1,388	2,355	2,965	2,979
O. A. Sutton No. 1 Webb	SE NE SE 11-34-7E	1,242	2,365	2,783	2,845
Orville H. Parker No. 1 Wilson	SE SE NW 25-34-7E	1,223	2,233	2,755	2,810
Gaylord Swan No. 1 Briscoe	SE NE SE 17-34-8E	1,280	2,135	2,714	2,767
*Mid-Continent Petro. Corp. No. 1 Chas. Olsen "A"	SE SE NW 13-35-6E	1,251	2,133**	2,984	3,018
*Rex & Morris Drlg. Co. et al. No. 1 Baird	NE NE NW 17-35-5E	1,150	2,330**	3,137	3,171

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.
\*\*Depth to the top of the "Layton," feet.

lished initial daily production of 17 barrels of oil from the "Layton sand" at a depth of 2,212 feet. No production was reported. The Hittle North pool (later joined to the David) was opened by the Aladdin Petroleum Company No. 1 Summers well, SW1/4 NW 4 sec. 15, T. 31 S., R. 4 E., in April. "Bartlesville" production was found between depths of 3,014 and 3,020 feet. Initial daily production was reported at 25 barrels of oil. An old well worked over, the Orville H. Parker No. 1 Dunn, NW1/4 SW1/4 sec. 28, T. 34 S., R. 5 E., opened the Quarry field in June. Initial daily production of 25 barrels of oil was established in the "Cleveland sand" between depths of 2,684 and 2,702 feet. field is adjacent to the Rahn Southwest (Pl. 1). The Rainbow Bend Southwest field was opened when the K. T. Wiedemann No. 1 Hanson well, NW¼ NE¼ sec. 31, T. 33 S., R. 3 E., was worked over. Production of 11 barrels of oil per day was established in Mississippian limestone between depths of 3,356 and 3,374 feet. The Nitsche field was named on the basis of the Royal Oil and Gas Corporation No. 1 Nitsche well, SE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 24, T. 32 S., R. 6 E., which was abandoned in January.

New producing oil zones were found in several Cowley County fields (Table 7). "Layton sand" production was established in the Estes field, in which former gas production was from a sandstone in the upper part of the Pleasanton group at a depth of about 2,500 feet. The oil-producing zone is between 2,190 and 2,203 feet. The discovery well was drilled in July. Reported production for the remainder of the year is 5,095 barrels of oil. Three new producing zones were found in the Gibson field, in which "Bartlesville sand" production was discovered in 1941. The Aladdin Petroleum Corporation No. 10 Baird-Drennen well, SE¼ NE¼ sec. 32, T. 34 S., R. 3 E., found initial daily production of 258 barrels in the Arbuckle dolomite at 3,780 feet in February. The worked-over The Texas Company No. 1 Williams well, in the SE14 SW14 sec. 32, established Simpson production amounting to 18 barrels a day in June. The producing zone is between 3,774 and 3,780 feet. "Cleveland sand" production, in a zone between 2,984 and 2,986 feet, was established in June when the Gross Drilling Company No. 1 Lawson well, NW1/4 NW1/4 sec. 33, T. 34 S., R. 3 E., was worked over. The daily production of the well was reported to be 11 barrels of oil.



In addition to field openers 21 dry wildcat wells were reported in Cowley County. Data on these wells are listed in Table 23.

Drilling was active in the previously established fields. Fields having large numbers of new wells include Burden East, 9 oil wells and 2 dry holes; Cabin Valley, 13 oil wells, 1 dry hole, and 1 salt-water disposal well; David, 53 oil wells, 11 dry holes, and 1 salt-water disposal well; Geuda Springs, 7 oil wells and 6 dry holes; Harvey, 32 oil wells and 12 dry holes; School Creek North, 14 oil wells and 3 dry holes; Trees, 7 oil wells and 4 dry holes; and Winfield 24 oil wells, 7 dry holes, and 1 salt-water disposal well.

Oil production in Cowley County in 1954 increased more than 36 percent over that of 1953. Oil production in the various Cowley County fields is listed in Table 56. Gas production is listed in Table 57. Secondary recovery data are given in Table 1. Locations of areas from which oil was produced in 1954, of secondary recovery operations, and of dry wildcat wells drilled in 1954 are shown on Plate 1.

# CRAWFORD COUNTY (Map Pl. 1)

The 1954 production: oil 58,016 barrels from 7 fields including approximately 4,493 barrels from secondary recovery projects, gas (estimated) 44,541 thousand cubic feet. Wells drilled in 1954 (estimated): oil 45, dry 16, input 20, total 81.

Developments during 1954.—Oil production in Crawford County showed an increase of about 6 percent over 1953 when 55,008 barrels was reported.

Oil production in Crawford County fields is listed in Table 56 and gas in Table 57. Locations of areas from which oil was produced in 1954 and of secondary recovery projects are shown on Plate 1. Secondary recovery data are listed in Table 1.

## DECATUR COUNTY (Map Fig. 4)

The 1954 production from 8 pools: oil 348,048 barrels, gas none. Wells drilled in 1954: oil 10, dry 23, total 33 including 10 dry wildcats. New pools discovered 1.



Developments during 1954.—Oil production from Decatur County increased almost 100,000 barrels over the previous year. This was due mostly to the doubling of production in the Jennings pool and the successful development of additional wells in the Pollnow West pool.

One new pool was named in Decatur County during 1954, the Pollnow Northwest. The Sauvage & Dunn Drilling Company completed the discovery well in the NW \( \frac{1}{4} \) SE \( \frac{1}{4} \) sec. 31, T. 2 S., R. 29 W., in September. The Lansing-Kansas City group of rocks was found at 3,772 feet depth. A porous zone within the limestone from 3,800 to 3,804 feet depth yielded 12 barrels of oil per day on a swabbing test. Later testing found water and at present the well is considered as temporarily abandoned.

Three new oil wells were completed in the Jennings pool, 2 in the Feely, 2 in the Pollnow West, 2 in the Monaghan, and 1 in the Hardesty. Of the dry wildcat tests, only 2 reported shows of oil. The Henderson Oil Company unsuccessfully reworked the

TABLE 24.—Dry wildcat tests drilled in Decatur County during 1954

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth. feet
*Jones, Shelburne & Farmer, Inc. No. 1 Metcalf	SW SW SW 34-1-27W	2,509	3,326	3,697**	3,740
*Jones, Shelburne & Farmer, Inc. No. 1 Eckhart	SE SE SE 3-2-26W	2,516	3,356	3,664**	3,718
C-G Drlg. Co. No. 1 Schwab	NW NW SW 6-2-26W	2,568	3,362	3,690**	3,757
*Franco Central Oil Co. No. 1 Uehlin	NE SW NW 6-2-27W	2,562	3,401	3,850	3,961
*Jones, Shelburne & Farmer, Inc. No. 1 Fortin	NE NE NE 17-2-27W	2,598	3,504	3,934	3,999
H. E. Zoller et al. No. 1 Monaghan	NW NW SE 19-3-27W	2,641	3,726	4,221	4,265
*Sauvage & Dunn Drlg. Co., Inc. No. 1 Sauvage	N½ NE NW 26-3-29W	2,754	3,900	<b></b>	4,020
R. W. Shields No. 1 Coleman	SW SE SE 15-4-27W	2,614	3,591	3,783†	3,801
The Derby Oil Co. et al. No. 1 Skiles	SE SE SW 17-5-30W	2,915	3,965	<b>4,57</b> 8	4,600
B-R-G No. 1 Addleman	NE NE SE 28-5-30W	2,889	3,956	4,166†	4,195

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

Depth to the top of granite wash, feet.

Depth to the base of the Kansas City, feet.

well originally drilled in 1952 by E. K. Carey on the Wachen-dofer lease in sec. 35, T. 5 S., R. 29 W.

The tops of some of the important marker zones of the 10 dry wildcat tests are given in Table 24. The locations of the dry wildcat tests and the various producing pools are shown on Figure 4. The new pool is described in Table 6, and production from the various Decatur County oil pools is given in Table 56.

#### DICKINSON COUNTY

(Map. Pl. 1)

The 1954 production from 5 fields: oil 105,606 barrels, gas none. Wells drilled in 1954 (reported): oil 8, dry 13, total 21 including 4 dry wildcats. New pools discovered 1.

Developments during 1954.—Oil production in Dickinson County was slightly greater in 1954 than in 1953 when 102,474 barrels was reported.

The Ash Grove pool was opened in July by the Donald T. Ingling No. 1 Wilson "A" well, SW¼ SW¼ SW¼ sec. 5, T. 15 S., R. 1 E. Production amounting to 20 barrels of oil per day was found in topmost Mississippian limestone in a zone between 2,569 and 2,572 feet depth. Three additional oil wells and 3 dry holes were drilled in the field later in the year. Two dry holes were reported drilled in the Bonaccord field, 3 oil wells and 1 dry hole in the Lost Springs field, 1 dry hole in the Lost Springs North, and 1 oil well in the Lost Springs Northeast. A dry hole was drilled in each of secs. 31 and 32, T. 16 S., R. 1 E., in the area adjacent to the Fanska field, Marion County. Both wells were drilled through the "chat" into the top of Mississippian limestone.

TABLE 25.—Dry wildcat tests drilled in Dickinson County during 1954

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
Henry W. Pieper et al. No. 1 Flora	NE SE SW 11-13-1E	1,237	1,749	2,367	3,208
Donald T. Ingling et al. No. 1 Bogart	SE SE SW 33-15-1E	1,341	1,987	2,628	2,657
Fincher & West No. 1 Jones	SW SW SE 10-16-1E	1,311	1,960	2,595	2,628
Lance C. Hill No. 1 Woods	NW NW NE 16-16-1E	1,383	2,042	2,668	2,682

Oil production in the Dickinson County fields is listed in Table 56. Dry wildcat wells drilled in the county in 1954 are listed in Table 25. Locations of areas from which oil was produced and of dry wildcat wells drilled in the county in 1954 are shown on Plate 1.

# DONIPHAN COUNTY (Map Pl. 1)

The Geological Survey has records of 8 wells in Doniphan County drilled in previous years. The latest of these was drilled in 1944.

Exploration during 1954.—During 1954, one well was drilled in Doniphan County. This is the Gordon Curtis et al. No. 1 Frazer well, NW¼ NW¼ NW¼ sec. 14, T. 2 S., R. 19 E. The well was abandoned at a total depth of 2,280 feet in October. Tops were reported as follows: Lansing, 635 feet; Mississippian, 1,846 feet; and "Hunton," 2,253 feet. The location of this well is shown on Plate 1.

# DOUGLAS COUNTY (Map Pl. 1)

The 1954 production from 1 field: oil 13,748 barrels, gas none reported.

Developments during 1954.—Oil production in Douglas County is from the Baldwin field in the southeast part of the county. Small unrecorded amounts of gas were produced and consumed locally in the Eudora and Lawrence areas. No drilling was reported in the county during the year.

Locations of areas in the **Baldwin** field from which oil was produced in 1954 are shown on Plate 1. The county's oil production is listed in Table 56.

### EDWARDS COUNTY

(Map Fig. 11)

The 1954 production from 7 pools: oil 79,349 barrels, gas 164,118 thousand cubic feet. Wells drilled in 1954: oil 2, gas 5, dry 12, total 19 including 7 dry wildcats. New pools discovered 2, revived 1.

Developments during 1954.—Oil production from Edwards County during 1954 was 2½ times last year's production, mostly



4,835

5,011

4,921

4.802

4.876

5,074

4,962

4.824

Twin Oil Corp.

Gramehart-Miller Oil Co.

Gramehart-Miller Oil Co.

Aurora & Anschutz

No. 1 "B" Newsom

No. 1 Britton

No. 1 Butler

No. 1 Fisher

Depth to Depth to Depth to Total top of ans.-K.C., top of top of Viola, Arbuckle, depth, Company and farm Location feet **feet** feet feet 'Twin Oil Corp. et al. NE NE NE 3.882 4,516 4.801 4.840 No. 1 Bogerd 10-24-18W SW NW NE 4,698 5,044 Natural Gas & Oil Corp. 3,984 5,008 No. 1 Fox 35-24-18W NW SE SE 3,907 4,524 4,791 4,801 Braden Drlg. Co. No. 1 Mayhew 33-25-16W

3,949

4,065

4.040

4,011

4,573

4,761

4,674

4.617

TABLE 26.—Dry wildcat tests drilled in Edwards County during 1954

SW SW NW

NE NE SW

35-25-18W

NE NE NE

35-26-17W

S½ NE SE

11-26-18W

9-25-17W

because of the successful completion of two additional Lansing-Kansas City wells in the **Enlow** pool. The **Enlow** pool alone accounted for more than 56,000 barrels of oil during the year.

Two new pools were named during the year, and the McCarty gas pool was revived. Sherrod and Apperson revived the McCarty pool when they found commercial quantities of gas in the Pennsylvanian basal conglomerate from depths of 4,528 to 4,538 feet on the Huff property in sec. 31, T. 25 S., R. 17 W. Sherrod and Apperson completed three other gas wells in the pool during the year, each with initial potentials of about 3,000,000 cubic feet of gas per day.

The 35 barrels of oil per day Sturgeon pool was discovered by the Graham-Messman-Rinehart Oil Company in their initial test on the Sturgeon lease in sec. 33, T. 26 S., R. 18W. Production is from the Viola from 4,721 to 4,726 feet depth.

The Cities Service Oil Company discovered the Wokaty gas pool in sec. 25, T. 25 S., R. 17 W., in testing to the Arbuckle on the Wokaty farm in April. An initial potential of 2.8 million cubic feet of gas per day was assigned the Pennsylvanian basal conglomerate at depths of 4,390 to 4,405 feet.

Increased production from Edwards County during 1954 resulted in an increase in exploration. During the year seven dry wildcat tests were drilled, and three old dry wildcat tests were

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

worked over. Three of the seven new tests reported shows of oil or gas. Table 26 lists the tops to marker zones encountered in drilling these tests.

The locations of the dry wildcat tests and the various producing pools of the county are shown on Figure 11. The new and revived pools are listed in Table 6. Oil production statistics are given in Table 56 and gas in Table 57.

# ELK COUNTY (Map Pl. 1)

The 1954 production from 26 fields: oil 285,036 barrels, gas 368,995 thousand cubic feet. Wells drilled in 1954 (estimated): oil 87, dry 38, input and/or disposal 35, total 160 including 2 dry wildcats.

Developments during 1954.—Elk County's reported oil production was nearly 67 percent greater in 1954 than in 1953.

An Arbuckle test well, the Cree and Archer Drilling Company No. 1 Stotts Ranch, was drilled in the old Adams gas field in the NW¼ NE¼ SW¼ sec. 29, T. 29 S., R. 13 E. The top of Mississippian limestone was reached at 1,725 feet and the top of Arbuckle limestone at 2,027 feet. "Live oil" was reported at 2,028½ feet. The well was drilled to 2,030 feet and 3 gallons of oil per hour was bailed.

Two dry wildcat wells were reported drilled in Elk County in 1954. The Franco-Central Oil Company No. 1 Youngmeyer well, NE¼ NE¼ SW¼ sec. 36, T. 28 S., R. 8 E., was abandoned at a total depth of 2,737 feet. Tops were reported as follows: Kansas City, 1,855; "Cherokee," 2,340; and Mississippian limestone, 2,638 feet. The F. W. Strait-Harry Keener No. 1 Criger well, Cen. S½ SW¼ SW¼ sec. 15, T. 29 S., R. 10 E., was drilled to a total depth of 2,151 feet. Locations of the two wells are shown on Plate 1.

Oil production in Elk County fields is listed in Table 56 and gas in Table 57. Locations of areas from which oil was produced in 1954 are shown on Plate 1.

# ELLIS COUNTY (Map Fig. 8)

The 1954 production from 96 pools: oil 11,366,975 barrels, gas none, Wells drilled in 1954: oil 146, dry 151, salt-water disposal 6,



total 303 including 21 dry wildcats. New pools discovered 9, combined 3, revived 1. Secondary recovery projects 2.

. Developments during 1954.—Oil production from Ellis County's prolific fields amounted to 200,000 barrels more than for 1953. Because of this the county maintained its position in third place among the top oil-producing counties of Kansas. The drilling pace dropped off considerably from that of 1953; however, nine new oil fields and six new producing zones in old fields were discovered during 1954.

The new pools in alphabetical order are the Dinges, Eagle Creek, Erbert Southeast, Herman, Koblitz Northwest, Leiker Southeast, Nicholson South, Walter Southeast, and Younger South. The revived pool is the Hadley. In the Eagle Creek production is from Lansing-Kansas City rocks, in the Erbert Southeast from the Pennsylvanian basal conglomerate, and in the other new pools from the Arbuckle dolomite. Significant facts about the new pools such as company and farm name, location, depth to producing zone, and the assigned initial potential are listed in Table 6.

The new producing zones in established fields are the Burnett (Simpson), Catharine South (Lansing-Kansas City), Degenhart (Arbuckle), Leiker East (Lansing-Kansas City), Schmeidler (Lansing-Kansas City), and Sessin (Lansing-Kansas City). Information similar to that given for the new pools is given for these new producing zones in Table 7.

Because of the proximity of similarly producing pools the Kansas Nomenclature Committee combined the following pools during 1954: the Jensen with the Koblitz; the Nicholson South with the Nicholson; and the Rome with the Sugarloaf Southeast.

Ellis County oil pools having 10 or more new oil wells completed this year are the Bemis-Shutts 14, Nicholson 10, Sugarloaf Southeast 13, Ubert Northwest 12, and Wheatland Southwest 10.

Of 14 old wells reported worked over in the county during the year, 11 were made into producing oil wells, 2 were declared dry, and 1 was converted into a salt-water disposal well.

The 21 dry wildcat tests that resulted from the exploration for new reserves in the county during 1954 are listed in Table 27. Only 2 of these tests reported shows of oil, although considerable drill-stem testing was done in the drilling of the holes.



TABLE 27.—Dry wildcat tests drilled in Ellis County during 1954

		Depth to top of LansK.C.,	Depth to top of Arbuckle,	Total depth,
Company and farm	Location	feet	feet	3,455
Murfin Drlg. Co. et al. No. 1 Matheson	NE NE SW 24-11-16W	3,001	3,304**	3,433
*Heathman-Seeligson Drlg. Co. No. 1 "C" Chrisler	N½ NE SW 32-11-16W	3,134	3,459	3,476
*Jones, Shelburne & Farmer, Inc. No. 1 Mohler	NE NE SW 1-11-19W	3,349	3,686	3,710
*Pam-Kar Drlg. Co., Inc. No. 1 Davis-Howard	SW SW SE 23-11-20W	3,407	3,696**	3,780
*The El Dorado Refg. Co. No. 1 Davis-Howard	SE NW SE 24-11-20W	3,265	3,587	3,605
Transit Corp. et al. No. 1 Homburg	SE SE SW 34-11-20W	3,491	3,936	3,965
*Nadel & Gussman No. 1 Chrisler	SE SE NW 5-12-16W	3,082	3,401**	3,450
*Isern Drlg. Co. et al. No. 1 Windholz	SW SW NW 8-12-16W	3,121	3,408**	3,480
*Kantor Oil Co. No. 1 Hagen	NE NE NW 7-12-19W	3,546	3,843**	3,893
*Pam-Kar & Fain Porter No. 1 Shutts	SW SW NE 6-13-19W	3,497	3,809**	3,870
Transit Corp. et al. No. 1 Niernberger	SE SE SW 11-13-20W	3,426	3,788	3,815
The Texas Co. No. 1 J. J. Brungardt	SW NW NE 30-14-16W	3,215	3,456	3,473
Franco Central Oil Co. No. 1 Lang	SW SW NW 12-14-17W	3,238	3,592	3,607
Morrison Drlg. Co., Inc. et al. No. 1 Schumacher	SE SE SE 1-14-18W	3,343	3,668	3,682
Transit Corp. No. 1 Orth	SE SE NW 3-14-19W	3,452	3,834	3,900
Great Lakes Carbon Corp. No. 1 Dinkel	SE SE SW 13-14-20W	3,422	3,779	3,828
The Derby Oil Co. No. 1 Philip	NW NW NE 3-15-17W	3,231	3,541	3,557
*Flynn Oil Co. No. 1 Klaus	NE NE SW 19-15-18W	3,295	3,630	3,635
C-G Drlg. Co. No. 1 Werth	SE SE NE 33-15-18W	3,246	3,537	3,546
Herndon Drlg. Co. No. 1 Younger	NE NE SE 6-15-19W	3,372	3,750	3,756
Deep Rock Oil Corp. No. 1 W. C. Wann et al.	NE NE NW 11-15-20W	3,336	3,682**	3,711

<sup>\*</sup>No electric or radioactivity logs 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 Texas Company received a secondary recovery permit during the year on a lease in the **Karlin** pool. No secondary recovery production was reported. The Stanolind Oil and Gas Company reported secondary recovery production of more than 24,000 barrels of oil from their project in the **Fairport** field, which extends into Russell County (Table 1).

The locations of the dry wildcat tests and of the 96 Ellis County producing pools are shown on Figure 8. Ellis County production statistics by pools are given in Table 56.

### ELLSWORTH COUNTY

(Map Fig. 7)

The 1954 production from 16 pools: oil 3,167,852 barrels, gas none reported. Wells drilled in 1954: oil 17, dry 23, salt-water disposal 2, total 42 including 4 dry wildcats. New pools discovered 1.

Developments during 1954.—Both oil production and explorational activity were less than during the previous year. Oil production declined 10 percent and drilling declined to 42 wells from 52 wells in 1953. No gas production was reported from the county this year.

The El Dorado Refining Company discovered the one new oil pool in Ellsworth County during 1954. It is the Green Garden pool located in sec. 1, T. 17 S., R. 9 W., on the Brown lease, about a mile north of the Lorraine field. An initial potential of 215 barrels of oil per day from the Lansing-Kansas City group from 3,046 to 3,050 feet depth was assigned the discovery well. The Simpson rocks from 3,244 to 3,249 feet in this discovery well were

TABLE 28.—Dry wildcat tests drilled in Ells	sworth County during 1954
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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
*Donald T. Ingling et al. No. 1 Hughes	SE SE NW 21-15-6W	2,645	3,202	3,691	3,772
*Shelley-Miller Drlg., Inc. No. 1 Jelinek	SE SE NW 29-15-8W	2,534	2,905	2,947	3,025
*U. G. Kropp No. 1 Kropp	NW NW NE 30-15-8W	2,586	2,946	2,983	3,012
*Shelley-Miller Drlg., Inc. No. 1 Prochaska	SE SE SE 10-16-8W	2,570	2,968	3,014	3,025

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

perforated following a show of oil during the drilling. Further testing was unsuccessful and the hole was plugged back to the Lansing-Kansas City pay zone.

New oil wells were completed in the following fields: **Bloomer**, 2; **Heiken**, 4; **Geneseo-Edwards**, 6; **Maes**, 3; and **Stoltenberg**, 1.

Only four dry wildcats were drilled in the county during 1954. Of these the Shelley-Miller Drilling, Inc. No. 1 Prochaska, SE¼ SE¼ SE½ sec. 10, T. 16 S., R. 8 W., reported a show of oil and gas in Lansing-Kansas City rocks. Data on the tops of marker zones of the dry wildcat tests are tabulated in Table 28.

The locations of the dry wildcat tests and the various oil pools are given in Figure 7. The new pool is described in Table 6. Data on the oil production are given in Table 56, and the inactive gas area is listed in Table 57.

### FINNEY COUNTY (Map Pl. 2)

The 1954 production: oil from 9 pools 220,210 barrels, gas (all from the Hugoton Gas Area) 28,048,734 thousand cubic feet. Wells drilled in 1954: oil 7, gas 72, dry 6, total 85 including 1 dry wildcat.

Developments during 1954.—Both oil and gas production from the Finney County pools decreased slightly from the high figure set the previous year.

The seven oil wells are extension wells in the Mississippian Finnup pool. One dry hole was completed in the field development program in this pool. The gas well drilled within the geographical limits of the Finnup pool, the W. L. Hartman No. 1 Adams in sec. 27, T. 22 S., R. 33 W., produces from the Chase group of rocks, which makes it by definition a Hugoton Gas Area well.

There were 72 new Chase group gas wells added to Finney County's portion of the large Hugoton Gas Area during 1954. Gas production for 1954, from 378 wells, totaled 28,048,734 thousand cubic feet. Cumulative production from this part of the field is more than 179,796 million cubic feet of gas.

Continental Oil Company et al. drilled a dry wildcat test on the V. K. Tate lease in the NW¼ SW¼ NE¼ sec. 3, T. 25 S., R. 31 W., to a total depth of 5,170 feet before abandonment in April. Drilling from an elevation of 2,864 feet above sea level



Generated at University of Kansas on 2023-89-27 19:06 GMT / https://hdl.handle.net/2027/ucl.b3817063 Public Domain in the United States, Google-digitized / http://www.hathitrust.org/access\_use#pd-us-google the following marker zones were encountered: Neva limestone, 3,130; Topeka limestone, 3,666; Heebner shale, 3,992; Lansing group, 4,050; Ste. Genevieve limestone, 4,845; and St. Louis limestone, 4,924 feet depth.

A Hugoton gas well completed by The Texas Company on the Kisner farm in the SW¼ NE¼ NE¼ sec. 13, T. 22 S., R. 33 W. was drilled to St. Louis (Mississippian) rocks, reached at 4,909 feet depth. Other significant marker zones encountered in drilling the test from an elevation of 2,889 feet above sea level are: Heebner shale, 3,888; Lansing group, 3,938; and Ste. Genevieve limestone, 4,787 feet depth. The total depth reported is 4,952 feet.

Mississippian rocks were logged at 4,666 feet depth in the Morris Mizel No. 1 Manns, a Chase group gas well in the SE¼ NW¼ NW¼ sec. 35, T. 22 S., R. 33 W. Before plugging back to Chase group gas production, the test encountered the top of the Lansing group at 3,828 feet and the Marmaton group at 4,325 feet depth. The test was drilled from an elevation of 2,873 feet above sea level.

The 1954 Hugoton gas wells, the oil pools, and the dry wild-cat test are shown on Plate 2. Oil production is given in Table 56, and gas production in Table 57. Historical data on the Hugoton Gas Area are given in the chapter on natural gas.

#### FORD COUNTY

The 1954 production from 3 pools: oil 639 barrels, gas 97,257 thousand cubic feet. Wells drilled in 1954: gas 2, dry 1, total 3. New pools discovered 1.

Developments during 1954.—The first Ford County pool, the Pleasant Valley, was discovered by the Sinclair Oil Company in 1938. The pool was abandoned and then revived in 1950 by R. G. Clay. The new gas pool discovered this year, the Pleasant Valley South, was opened by the W. J. Coppinger No. 1 Vice well in sec. 14, T. 28 S., R. 21 W. The Mississippian rocks were encountered at 5,022 feet depth, and 34 feet deeper, a porous zone from 5,056 to 5,074 feet depth was assigned an initial potential of 7.6 million cubic feet of gas per day. Later in the year, W. J. Coppinger drilled a successful offset well in sec. 11 on the Kirkpatrick farm; production is from the same zone. The second

well was given an initial potential of 3.8 million cubic feet of gas per day. Coppinger's test to the west in sec. 15 on the Davis farm was unsuccessful, finding the Mississippian rocks nonproductive; it was abandoned at 5,229 feet depth.

Data on oil production from Ford County are given in Table 56, and gas production in Table 57. A description of the new pool is given in Table 6.

## FRANKLIN COUNTY (Map Pl. 1)

The 1954 production: oil from 13 areas in 2 fields 453,895 barrels including approximately 323,623 barrels from secondary recovery projects, gas none. Wells drilled in 1954 (estimated): oil 62, input 33, dry 14, total 109.

Developments during 1954.—Franklin County's oil production was almost 6 percent less in 1954 than in 1953. Most of the drilling was done in connection with water-flooding activities in the eastern part of the county.

Data on water-flooding projects in Franklin County are listed in Table 1. The approximate production of secondary recovery oil includes Franklin County's production from projects which straddle the Franklin-Miami County line. Oil production in the various areas is listed in Table 56. Locations of areas from which oil was produced in 1954 and of secondary recovery projects are shown on Plate 1.

## GOVE COUNTY (Map Fig. 10)

The 1954 production from 7 pools: oil 27,849 barrels, gas none. Wells drilled in 1954: oil 1, dry 2, total 3 including 2 dry wildcats.

Developments during 1954.—Oil production from Gove County during 1954 was about 21 percent less than that reported during 1953. Drilling activity declined from 7 wells in 1953 to only 3 wells during 1954.

In spite of the decline in drilling activity, a new producing zone, the Lansing-Kansas City, was named in the Gove pool. O. A. Sutton and Petroleum Management, Inc. reported this new find on the Ada L. Moore property in the NW¼ NW¼ NW¼ sec. 25, T. 13 S., R. 30 W. At 4,122 feet depth shows of oil encouraged



testing. After the well had been drilled to the Arbuckle dolomite, it was plugged back and the casing perforated opposite the new zone from 4,122 to 4,132 feet depth. An official rating of 153 barrels of oil per day was given the well.

The Virginia Drilling Company completed an unsuccessful test on the Neher farm in the NW¼ NW¼ SW¼ sec. 27, T. 11 S., R. 26 W., 1½ miles east of Quinter and 14 miles from the nearest production. Important tops are as follows: Heebner shale, 3,891; Lansing group, 3,927; Mississippian rocks, 4,533; Viola limestone, 4,657; and Arbuckle dolomite, 4,735 feet depth. Total depth was reported as 4,761 feet. The other dry wildcat drilled in Gove County during 1954 was drilled by Petroleum, Inc. on the Garvey farm in the NE¼ NE¼ SW¼ sec. 11, T. 15 S., R. 27 W., 12 miles west of Jerome and 16 miles east of the Lundgren pool. Important tops are as follows: Stone Corral dolomite, 1,275; Heebner shale, 3,617; Lansing group, 3,654; Marmaton group, 3,977; Pennsylvanian basal conglomerate, 4,241; and Mississippian rocks, 4,269; total depth was 4,419 feet.

The locations of these two wildcat tests and the producing areas are shown on Figure 10. Oil production by pools is given in Table 56.

## GRAHAM COUNTY (Map Fig. 5)

The 1954 production from 44 pools: oil 3,875,926 barrels, gas none reported. Wells drilled in 1954: oil 145, dry 105, salt-water disposal 1, total 251 including 33 dry wildcats. New pools discovered 9, combined 3.

Developments during 1954.—Oil production from Graham County increased about 15 percent over the 1953 figure and the number of new wells was double that of the previous year. Nine new oil pools were named during the year.

The new Graham County oil pools are: Happy, Happy Southeast, Holley, Hoof, Noah Southwest, Prairie Glen, Sand Creek, Schmied Northeast, and Van. Seven of the new producing areas were named as Lansing-Kansas City producers, while the Noah Southwest reported new production from the Marmaton group, and the Van from the Arbuckle dolomite. All discovery wells were assigned initial potentials of more than 100 barrels of oil

per day, and three of the seven were more than 1,000 barrels of oil per day. Data on the operators making these discoveries, their locations, depths to the new producing zones, and thicknesses of the producing zones are given in Table 6.

Before the close of the year, the new Happy Southeast Lansing-Kansas City pool was combined with the new Happy pool. Other pool combinations include the White with the Laura pool, which extends into Rooks County, and the Wakeeney Northwest pool of Trego County has been combined with the Diebolt pool.

Of 33 dry wildcat tests drilled during the year, only 6 reported shows of oil. Perhaps the most encouraging show of oil was found in the Cooperative Refinery Association No. 1 Andregg "A" test in the NE¼ SE¼ SW¼ sec. 31, T. 8 S., R. 21 W., in the Arbuckle dolomite, where 10 gallons of water and 17 gallons of oil per hour were recovered. Further testing resulted in an increase in water so abandonment followed. Pertinent data on the locations and marker zones encountered during drilling of these dry wildcat tests are given in Table 29.

Among the pools adding large numbers of new wells during the year are: Cooper, 15 oil and 10 dry; Happy, 31 oil and 3 dry; Laura, 15 oil and 4 dry; Nana, 19 oil and 4 dry; Schmied, 20 oil and 9 dry; and White Southwest, 13 oil and 4 dry.

TABLE 29.—Dry wildcat tests drilled in Graham County during 1954

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth. feet
Trans-Era Petro., Inc. No. 1 Schock	NE NE NW 9-6-23W	2,428	3,610	3,977	4,012
*Jones, Shelburne & Farmer, Inc. No. 1 Casey	NE NE SE 35-6-23W	2,411	3,673	4,008	4,043
*Natl. Coop. Ref. Assn. No. 1 Bangle	NW NW SW 5-6-25W	2,480	3,571	4,014	4,034
Trans-Era Petro., Inc. et al. No. 1 Bradley-Selms	SW NW NE 19-6-25W	2,602	3,697	4,172	4,200
*Jones, Shelburne & Farmer, Inc. No. 1 "B" Hickert	SE SE SW 27-6-25W	2,566	3,704	4,230	4,256
Petroleum, Inc. No. 1 Carver	SE SE NW 33-6-25W	2,568	3,717	4,240	<b>4,28</b> 0
Trans-Era Petro., Inc. et al. No. 1 "B" Sayer	NE NE NE 28-7-21W	2,087	3,342	3,649	3,699
*Jones, Shelburne & Farmer, Inc. No. 1 Worcester	NW NW NE 13-7-22W	2,153	3,401	3,715	3,745
Trans-Era Petro., Inc. et al. No. 1 "B" Morris	SW SW SW 26-7-23W	2,304	3,576	3,973	4,023

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Empire Drlg. Co. No. 1 Zohner	SW SW SW 15-7-24W	2,504	3,802	4,380	4,400
Benson-Montin et al. No. 1 Abernathy	NW NW SE 8-7-25W	2,531	3,686	4,207	4,230
*Anschutz Drlg. Co. No. 1 Kenyon	SE SE SE 5-8-21W	2,064	3,262	3,569	3,610
Anschutz Drlg. Co. No. 1 Gosselin	SW SW SE 6-8-21W	2,118	3 <b>,54</b> 0	3,643	3,693
Trans-Era Petro., Inc. et al. No. 1 "C" Sayer	NW NW NW 15-8-21W	2,006	3,222	3,498	3,518
Bennett & Roberts Drlg. Co. No. 1 Kenyon	SW SW SW 17-8-21W	2,085	3,315	3,638	3,740
*Cooperative Ref. Assn. No. 1 "A" Andregg	NE SE SW 31-8-21W	2,143	3,358	3,694	3,730
Bennett & Roberts Drlg. Co. No. 1 Heffelfinger	SW SW SW 31-8-22W	2,349	3,644	4,054	4,105
Jones, Shelburne & Farmer, Inc. No. 1 Moore	SW SW NW 3-8-23W	2,310	3,602	3,992	4,015
Don E. Pratt et al. No. 1 Legere	SE SE NE 15-8-23W	2,140	3,423	3,812	3,902
Natl. Coop. Ref. Assn. et al. No. 1 Ralph Keith	NW NW NW 29-8-24W	2,394	3,733	<b>4,487</b>	4,505
Trans-Era Petro., Inc. et al. No. 1 Hulburt	NE NE SE 5-8-25W	2,387	3,704	4,510	4,535
*Heathman-Seeligson Drlg. Co. No. 1 "A" Sanger	NE NE NE 12-8-25W	2,374	3,708		4,400
C-G Drlg. Co. No. 1 Gustafson	NE NE NE 7-9-22W	2,317	3,603	4,064	4,085
*Imperial Drlg. Co., Inc. No. 1 Gick	S½ NE SE 20-9-23W	2,442	3,787	4,352	4,382
*Lohmann-Johnson Drlg. Co., Inc. et al. No. 1 Pettwett Heirs	SE SE NW 25-9-24W	2,501	3,850	4,475	4,495
*Imperial Drlg. Co., Inc. No. 1 Moore	NW NW SW 27-9-24W	2,512	3,851	4,577	4,587
*Birmingham-Bartlett Drlg. Co. No. 1 "A" Drexler	N½ S½ NE 5-10-22W	2,345	3,611		4,055
*Barnett Drlg., Inc. No. 1 Griffith	NW NW SW 9-10-22W	2,285	3,570		3,820
Aurora Gasoline Co. No. 1 C. Dreiling	SE SE NE 20-10-22W	2,325	3,605	4,045	4,075
*Imperial Drlg. Co., Inc. No. 1 Gano	NW NW SW 1-10-24W	2,461	3,801	4,494	4,524
*Mid-Continent Petro. Corp. No. 1 F. A. Herman	NW NW SW 15-10-24W	2,473	3,815	4,486	4,544
*Wick Petroleum Co. No. 1 Lowenstein	NE NW NE 31-10-24W	2,471	3,813		4,340
Anschutz Drlg. Co. No. 1 Knoll	SE SE NE 14-10-25W	2,470	3,765	4,470	4,529

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



The only salt-water disposal well reported drilled was in the Smith-Denning pool. The disposal well was put down by D. G. Hansen on fee land in sec. 6, T. 10 S., R. 21 W., to a total depth of 4,350 feet. The Arbuckle dolomite was topped at 3,917 feet, so more than 433 feet of Arbuckle was penetrated in the test.

The locations of the new pools and of the dry wildcat tests are shown on Figure 5. Oil production by pools is given in Table 56.

### GRANT COUNTY (Map Pl. 2)

The 1954 production from the Grant County portion of the Hugoton Gas Area: gas 75.765,639 thousand cubic feet. Wells drilled in 1954: total 5 (all gas).

Developments during 1954.—Practically all the drilling locations, based on the present spacing of wells of one to a section of land, have been occupied in Grant County. Because of this, it is not surprising that only 5 new wells were drilled in the county during 1954. During 1954, the 565 producing gas wells accounted for 75,765,639 thousand cubic feet of gas. This brings the total cumulative production for the county, which has produced since 1930, to more than 612,768 million cubic feet of gas.

The Columbian Fuel Corporation No. 2 A. G. English "A" Hugoton gas well in sec. 2, T. 29 S., R. 36 W., was drilled into the Mississippian rocks before being plugged back to the gasbearing Chase group. The Lansing group was logged at 4,117 feet, the Marmaton group at 4,748 feet, and Chesteran (Mississippian) rocks at 5,557 feet depth. Total depth of the hole is 5,685 feet.

The five new Grant County gas wells are shown on Plate 2. Grant County's large share of the production from the Hugoton Gas Area is reported in detail in Table 57. Early history of the Hugoton Gas Area is discussed in the chapter on natural gas.

#### GRAY COUNTY

The 1954 production from 1 pool: none reported. Wells drilled in 1954: total 2 dry wildcats.

Developments during 1954.—During 1954, two dry wildcat tests were made in Gray County. No production was reported



from the United Producing Company's **Jumbo** oil pool. The discovery well, the No. 1 Salmon, was reworked in March and declared dry and abandoned.

The Continental Oil Company No. 1 Laird wildcat test in the SE¼ NE¼ SW¼ sec. 15, T. 26 S,. R. 30 W. was drilled to a total depth of 5,120 feet. Tops on this test as reported by the Kansas Sample Log Service are: Hollenberg limestone, 2,620; Fort Riley limestone, 2,810; Neva limestone, 3,190; Topeka limestone, 3,715; Lansing limestone, 4,144; and Ste. Genevieve limestone, 4,976 feet depth.

The United Producing Company completed a dry exploratory hole on the Leese farm in the Cen. SE<sup>1</sup>/<sub>4</sub> SW<sup>1</sup>/<sub>4</sub> sec. 34, T. 27 S., R. 28 W., at a total depth of 5,385. Important tops reported in drilling are: Stone Corral dolomite, 1,760; Hollenberg limestone, 2,670; Neva limestone, 3,267; Topeka limestone, 3,832; Lansing limestone, 4,370; and Ste. Genevieve limestone, 5,160 feet depth.

#### GREELEY COUNTY

Test wells have been drilled in Greeley County from time to time but as yet no producing pool has been found.

Exploration during 1954.—During 1954, four attempts at finding new production were made in Greeley County. The Cities Service Oil Company made the first exploratory test on the Sells farm in the NE¼ NE¼ SW¼ sec. 9, T. 18 S., R. 40 W., to a total depth of 5,320 feet. From an elevation of 3,612 feet above sea level the following tops were logged: Dakota sandstone, 1,080; Morrison formation 1,480; Stone Corral dolomite, 2,598; Lansing group, 4,311; and Ste. Genevieve limestone, 5,148 feet depth. No shows were reported. The location of this well is shown on Plate 2.

Two tests were drilled in the NW¼ sec. 5, T. 17 S., R. 42 W., on the Hiebert farm by the United Producing Company. The No. 2 test stopped in the Dakota sandstone at 1,272 feet depth. The No. 1 test penetrated the Arbuckle dolomite to a total depth of 5,925 feet. The following tops were reported: Dakota sandstone, 1,260; Lansing group, 4,326; Ste. Genevieve limestone, 5,190; Viola limestone, 5,758; and Arbuckle dolomite, 5,824 feet depth.

The United Carbon Company drilled its dry wildcat test late in December to a total depth of 5,515 feet before abandon-



ment. The test is located in the Cen. SE¼ NW¼ sec. 21, T. 17 S., R. 41 W. Drilling from an elevation of 3,741 feet above sea level the following marker zones were logged: Dakota sandstone, 1,165; Morrison formation, 1,510; Stone Corral dolomite, 2,690; Lansing group, 4,185; and Ste. Genevieve limestone, 5,290 feet depth.

#### GREENWOOD COUNTY (Map Pl. 1)

The 1954 production from 47 fields: oil 6,141,476 barrels including approximately 4,204,746 barrels from secondary recovery operations, gas none. Wells drilled in 1954 (estimated): oil 230, dry 66, input and water-supply 76, total 372 including 13 (reported) dry wildcats. New pools discovered 1.

TABLE 30.—Dry wildcat tests drilled in Greenwood County during 1954

Company and farm	Location	Depth to top of "Bar- tlesville," feet	Depth to top of Mis- sissippian, feet	Total depth. feet
*A. R. Jones No. 1 Rawlings	SW NE SW 32-22-12E	2,382**	1,907	2,552
*Bedell-Catt Drlg. Co. No. 1 E. R. South	NW NW SE 36-23-10E	1,960	•••••	2,073
*Edwards No. 1 Edwards	NW NE NE 2-24-10E	2,330		2,355
*R. Parks No. 1 Marlin	SW SW NE 22-25-10E	1,971	2,122	2,158
*Broiles No. 1 Sanitor	SE NE NW 1-25-11E		1,814	1,849
*Wayne Cox No. 1 Smith Ranch	Cen. NW 18-25-11E	1,665	2,012	2,026
*Wayne Cox No. 2 Smith Ranch	SW SW NE 18-25-11E	1,664		1,736
*E. H. Adair Oil Co. No. 1 Houston	NE NW SW 7-26-9E	2,356		2,410
Bedell-Catt Drlg. Co. No. 1 Hodgson	SE SE SW 23-26-12E	2,036**	1,796	3,110
*Bedell-Catt Drlg. Co. No. 1 Johnson	SE SW NE 26-26-12E	*******	1,688	1,755
*Bedell-Catt Drlg. Co. No. 1 Lilley	SW SW NW 34-27-9E	*******	2,510	2,590
*Natl. Coop. Ref. Assn. et al. No. 1 Mast	SW SW NE 15-27-12E	2,110**	1,740	2,118
*Crow & McLane No. 1 Blanke	SE NE SW 11-28-10E		2,491	2,528

<sup>\*</sup> No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.
•• Depth to the top of the Arbuckle, feet.



Developments during 1954.—Greenwood County's oil production in 1954 was up nearly 9 percent over that of 1953. The county retained top place, as it has for several years, in number of secondary recovery projects and in amount of oil produced by water-flooding methods. The secondary recovery figure above includes production from projects extending across county lines.

Drilling activity was mostly in connection with secondary recovery projects; 13 dry wildcat wells were reported (Table 30). A "Bartlesville sand" pool, the Ly-Green, was discovered in September by the White and Ellis Drilling Company No. 1 Curry well, NW¼ NE¼ sec. 5, T. 22 S., R. 11 E. Production amounting to 25 barrels of oil per day was reached in a zone between depths of 1,858 and 1,871 feet. Two additional oil wells were reported in the field. The greatest drilling activity reported in the county was in the Thrall-Aagard field, where 27 oil wells and 7 dry holes were reported. Ten new oil wells were reported in the Polhamus field; 8 in the Beaumont; and 7 in the Sallyards.

Oil production in the various Greenwood County fields is listed in Table 56. Data on secondary recovery projects are listed in Table 1. Data on dry wildcat wells drilled in 1954 are listed in Table 30. Plate 1 shows locations of areas from which oil was produced in 1954 and of secondary recovery projects in the county. The newly discovered pool is listed in Table 6.

#### HAMILTON COUNTY

(Map Pl. 2)

The 1954 production from the Hamilton County portion of the Hugoton Gas Area: gas 4,436,105 thousand cubic feet. Wells drilled in 1954: gas 4, dry 3, total 7 including 2 dry wildcats.

Developments during 1954.—Four new Hugoton gas wells were completed during 1954 in Hamilton County's portion of the large Hugoton Gas Area. The A. Thornbrough Nos. 1 and 2 U.S.A. wells in secs. 13 and 25, T. 25 S., R. 39 W. were rated at a little more than 3 million cubic feet of gas per day. The Stanolind Oil and Gas Company's two new wells, the No. 1 Miller in sec. 22 and the No. 1 Stucky "B" in sec. 15, T. 26 S., R. 39 W., were rated at more than 10 million cubic feet of gas per day. A. Thornbrough's test on the McDonald lease in sec. 12, T. 25 S., R. 39 W.,



found the Chase group, the producing zone of the **Hugoton Gas Area**, nonproductive and was abandoned at 2,450 feet depth.

Two dry wildcats were drilled in the county during the year. The Carter Oil Company drilled a Mississippian test in the NE¼ NE¼ SW¼ sec. 24, T. 24 S., R. 41 W., about 3 miles south of Syracuse, on the Overton ranch. The test was drilled from an elevation above sea level of 3,267 feet. The Stone Corral dolomite was logged at 1,814 feet, the Topeka limestone at 3,180 feet, the Lansing group at 3,656 feet, and the Ste. Genevieve limestone (Mississippian) at 5,142 feet depth. No shows of oil or gas were indicated on the scout ticket, and the hole was abandoned at a total depth of 5,300 feet.

The United Producing Company completed their test to the Mississippian rocks on the Rector lease in the Cen. SW¼ NE¼ sec. 23, T. 25 S., R. 40 W. at a total depth of 5,543 feet. From a reported elevation of 3,346 feet above sea level the following tops were logged: Stone Corral dolomite, 1,960; Topeka limestone, 3,408; Lansing group, 3,872; and Mississippian rocks, 5,352 feet depth.

The new Hamilton County gas wells and dry holes are shown on Plate 2. Production, the active area, and producing zones are given in Table 57. Historical data on the **Hugoton Gas Area** are given in the chapter on natural gas.

#### HARPER COUNTY

(Map Fig. 16)

The 1954 production from 9 pools: oil 152,568 barrels, gas 185,904 thousand cubic feet. Wells drilled in 1954: oil 45, gas 2, dry 23, salt-water disposal 1, total 71 including 12 dry wildcats. New pools discovered 9, combined 4.

Developments during 1954.—The successful exploration in Harper County during 1954 made it one of the more active spots in the State. Production from 8 producing wells during 1953 was a little more than 21,000 barrels. The production of more than 152,000 barrels during 1954 was from 54 active wells. The number of new wells drilled during the year was 71, which is more than 7 times last year's figure.

Exploration near the Mississippian Grabs oil pool resulted in the naming of six new Mississippian oil pools, the **Dusenbury**,



Dusenbury North, Grabs East, Grabs Northeast, Grabs South, and Grabs West. The Anthony pool, the new Mississippian gas pool, is also in the Grabs area. The Viola limestone was named the producing zone in the new Berg oil pool, and Viola-Simpson rocks the producing zone in the new Banner oil pool. Before the close of the year, the Grabs East, Grabs Northeast, Grabs Southeast, and Grabs West pools were combined with the Grabs pool. Data on the new pools are given in Table 6.

After consolidation, 33 new Mississippian oil wells had been added to the Grabs pool during 1954; only 4 dry holes were completed. The Grabs South pool had 7 new wells added during the year and only 1 dry hole.

Half of the dry wildcat tests drilled during the year reported shows of oil or gas, and most of the tests penetrated the Simpson

TABLE 31.—Dry wildcat tests drilled in Harper County during 1954

Company and farm	Location	Surface eleva- tion, feet	Depth to top of K.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
Trans-Era & Aurora Gaso- line No. 1 Wedman	NE NE NE 31-31-5W	1,344	3,597	4,837	4,866
<sup>o</sup> N. Appleman Co. et al. No. 1 McIntire	NE NE SE 1-31-8W	1,646	3,884	4,397**	4,470
Beardmore Drlg. Co. et al. No. 1 Williams	SE SW SW 11-31-8W	1,637	3,905	4,424**	4,493
Trans-Era Petro., Inc. et al. No. 1 Thompson	NE SW SW 23-31-8W	1,553	3,853	4,757†	4,815
R. W. Rine Drlg. Co. No. 1 Schon	NE SE NW 24-32-5W	1,265	3,556	4,884	4,935
°E. H. Adair Oil Co. et al. No. 1 Robinson	SW SW NW 22-32-6W	1,384	3,746	4,776†	4,798
Musgrove Petro. Corp. No. 1 Bebermeyer	NW NW NE 14-32-7W	1,421	3,783	4,883	4,900
Beardmore Drlg. Co. et al. No. 1 Blick	NE NE NE 28-32-9W	1,476	3,944	4,810†	4,829
Musgrove Petro. Corp. No. 1 Hayter	NE NE NE 6-33-6W	1,343	3,806	4,940	4,995
Musgrove Petro. Corp. No. 1 "B" Wilson	NW NW NW 16-33-6W	1,336	3,830	5,062	5,120
Cities Service Oil Co. No. 1 Hoopes	NW NE NE 35-33-6W	1,259	3,745	5,057	5,172
K & E Drlg. , Inc. et al. No. 1 Crisfield Townsite	SW SE SE 17-33-9W	1,371	4,008	4,809†	4,840

No electric or radioactivity logs 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.

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group of rocks. The elevations above sea level and depths to some important marker zones are given in Table 31.

The locations of the producing areas as of January 1, 1955, and dry wildcat tests drilled in Harper County during 1954 are shown on Figure 16. Oil production by pools is given in Table 56, and gas production in Table 57.

## HARVEY COUNTY (Map Fig. 7)

The 1954 production from 8 pools: oil 163,482 barrels, gas 420,483 thousand cubic feet. Wells drilled in 1954: oil 8, dry 7, total 15 including 1 dry wildcat.

Developments during 1954.—Oil production in Harvey County increased about 5 percent over last year's figure, but gas production declined about 3 percent. Drilling activity decreased 2 wells from the 17 drilled in 1953.

Five Mississippian extension oil wells were completed in the Harvey County portion of the **Burrton** pool. Three extension wells and four dry holes were drilled in an effort to extend the **Sperling** pool.

Only one rank wildcat was drilled in the county during 1954. The Herndon Drilling Company completed an Arbuckle test on the Worthington lease in the SW¼ NW¼ NW¼ sec. 13, T. 24 S., R. 2 E. in September at a total depth of 3,387 feet. Tops of important marker zones as reported by the Kansas Sample Log Service are: Heebner shale, 1,893; Lansing group, 2,145; Mississippian rocks, 2,828; "Kinderhook" shale, 3,059; "Hunton" limestone, 3,165; Maquoketa shale, 3,213; Viola limestone, 3,223; Simpson group, 3,250; and Arbuckle dolomite, 3,322. No shows of oil were reported on the scout ticket.

Figure 7 shows the producing pools and the location of the dry wildcat test drilled this year. Oil production statistics are given in Table 56, and gas in Table 57.

## HASKELL COUNTY (Map Pl. 2)

The 1954 production: oil from 1 pool 1,394 barrels, gas (all from the Hugoton Gas Area) 25,528,913 thousand cubic feet. Wells drilled in 1954: oil 1, gas 39, dry 4, total 44 including 2 dry wildcats.



Developments during 1954.—During 1954 the first oil well was completed in Haskell County. It was the discovery well of the Pleasant Prairie pool, the Helmerich and Payne No. 16 J. W. Jones in the Cen. W½ sec. 4, T. 27 S., R. 34 W., in the northwestern part of the county. An initial potential of 167 barrels of oil per day was assigned from Mississippian rocks, which were topped at 5,041 feet depth. The discovery well was drilled from an elevation of 1,986 feet above sea level and the following tops were logged: Stone Corral dolomite, 1,850; Ft. Riley limestone, 2,752; Lansing group, 3,970; and Morrowan rocks, 4,962 feet depth.

Routine development of the productive Chase group of rocks in the **Hugoton Gas Area** added 39 new gas wells and 2 dry holes to the field. During 1954, the 361 producing gas wells accounted for a total of 25,528,913 thousand cubic feet of gas, bringing the cumulative production of gas from the county to more than 218,379 million cubic feet.

Because they were drilled into Mississippian rocks two of the dry holes drilled in the county during the year are properly designated as wildcat wells, although they are geographically close to the Chase group gas wells of the Hugoton Gas Area. Bennett and Roberts completed a Mississippian test on the Boatwright lease in sec. 13, T. 29 S., R. 32 W. to a total depth of 5,435 feet before abandonment. From an elevation above sea level of 2,891 feet, the Lansing group was encountered at 4,283 feet and Chesteran rocks (Mississippian) at 5,190 feet depth. The Cities Service Oil Company No. 1 Ellsaesser "A" dry hole in sec. 8, T. 30 S., R. 31 W. was drilled to a total depth of 5,510 feet. Drilling from an elevation of 2,848 feet above sea level the samples indicate that the Lansing was encountered at 4,313 feet and the Ste. Genevieve limestone (Mississippian) at 5,462 feet depth.

The discovery well of Haskell County's first oil pool is described in Table 6. The new oil pool, the new gas wells, and the dry holes are shown on Plate 2. Oil production is given in Table 56, and gas production in Table 57. Historical data on the Hugoton Gas Area are given in the chapter on natural gas.

#### HODGEMAN COUNTY

(Map Fig. 12)

The 1954 production from 3 pools: oil 140,039 barrels. Wells drilled in 1954: dry 6 (all wildcats).

No. 1 Northrup

Depth to Surface Depth to top of Mis-Total top of Lans.-K.C., tion. sissippian, depth. Company and farm Location feet feet feet feet \*Bennett & Roberts Drlg. Co. SW SW NW 2,401 3,808 4,412 4,913 No. 1 McVickers 6-21-25W Armer Drlg. Co., Inc. SW SW NW 2,399 4,002 4,674 4,765 No. 1 "B" Smalley 9-23-24W 2.375 3,971 4,618 4.630 Armer Drlg. Co., Inc. S1/2 SE NE No. 2 "A" Smalley 9-23-24W Armer Drlg. Co., Inc. SE NE SE 2.375 3.981 4.622 4,725 No. 1 "C" Smalley 9-23-24W SW SW NW 4.107 4.780 4.930 Bennett & Roberts Drlg. Co. 2,546 No. 1 Williams 28-23-25W 4.887 Continental & Sinclair SW SW SE 2,366 4,011 4,684

TABLE 32.—Dry wildcat tests drilled in Hodgeman County during 1954

16-24-23W

Developments during 1954.—Oil production declined only slightly during 1954. Drilling during 1954 consisted of six dry wildcat tests, three of which were in sec. 9, T. 23 S., R. 24 W. on the Smalley lease.

The Bennett and Roberts test on the McVickers lease in the SW ¼ SW ¼ NW ¼ sec. 6, T. 21 S., R. 25 W. penetrated Simpson rocks at 4,905 feet depth according to the sample log prepared by the Kansas Sample Log Service. Other tops reported are: Heebner shale, 3,730; Pennsylvanian basal conglomerate, 4,402; Misener sand, 4,695; and Viola limestone, 4,711 feet depth. The hole was abandoned at a total depth of 4,913 feet.

Data on the other tests, all to Mississippian rocks, drilled during the year are tabulated in Table 32.

No shows of oil were reported in any of the tests. The locations of the producing areas and of the dry wildcat tests are shown on Figure 12. The production from Hodgeman County's three producing pools is given in Table 56.

### JACKSON COUNTY (Map Pl. 1)

Test wells have been drilled in Jackson County from time to time but as yet no producing oil or gas pool has been found. The Geological Survey has records of 12 test wells drilled in the county previous to 1954.



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

Exploration during 1954.—The Thomas and Lutz No. 1 Robson well, SE¼ SE¼ NW¼ sec. 18, T. 8 S., R. 16 E., was abandoned as a dry hole in May 1954. The total depth of the well is 3,078 feet. Tops were logged as follows: Oread limestone, 575 feet; Lansing, 860; Kansas City, 1,218; Mississippian, 2,078; "Hunton," 2,520; Viola, 2,833; Kinderhookian, 2,269; Maquoketa, 2,765; and Arbuckle, 3,052 feet. The location of the well is shown on Plate 1.

#### JEFFERSON COUNTY (Map Pl. 1)

The 1954 production: oil none reported, gas 29,940 thousand cubic feet.

Developments during 1954.—Neither drilling nor oil production was reported in Jefferson County in 1954. The gas produced in the McLouth area was consumed in McLouth. Gas production is listed in Table 57.

#### JOHNSON COUNTY (Map Pl. 1)

The 1954 production: oil 6,037 barrels, gas 20,324 thousand cubic feet.

Developments during 1954.—A few wells were drilled in the southwest part of Johnson County and for the first time in several years oil production was reported officially. This production was in the old Gardner oil and gas field and in the "Mignot" area (Pl. 1). Producing zones are relatively shallow Pennsylvanian sandstones. Oil production is listed in Table 56, gas in Table 57.

## KEARNY COUNTY (Map Pl. 2)

The 1954 production: oil from 1 pool 31,298 barrels, gas (all from the Hugoton Gas Area) 61,466,542 thousand cubic feet. Wells drilled in 1954: gas 44, dry 4, total 48.

Developments during 1954.—During 1954, 44 more of the locations for Chase group gas wells in the Kearny County portion of the Hugoton Gas Area were drilled successfully. Four attempts at extending the northwestern boundary of the Hugoton Gas



Area were unsuccessful. No deep drilling was done in the county during 1954. Production from the 3 producing oil wells in the Patterson pool was slightly less than that reported in 1953.

The 522 producing gas wells in Kearny County produced more than 61,466 million cubic feet of gas during 1954, bringing the cumulative total for the county to more than 408,030 million cubic feet of gas since its discovery there in 1937.

Among the 44 new gas wells, initial potentials ranged from less than 1 million to more than 11 million cubic feet of gas per day. Average producing capacity of the new wells is less than 4 million cubic feet per day. The largest new well is the Walter Kuhn No. 1 Moyer in sec. 7, T. 22 S., R. 35 W.

The new Kearny County gas wells and dry holes are shown on Plate 2. Gas production and the active area are reported in Table 57, oil production in Table 56. Historical data on the Hugoton Gas Area are given in the chapter on natural gas.

#### KINGMAN COUNTY

(Map Fig. 16)

The 1954 production from 19 pools: oil 850,639 barrels, gas 1,196,443 thousand cubic feet. Wells drilled in 1954: oil 81, gas 6, dry 27, total 114 including 13 dry wildcats. New pools discovered 9, revived 1, combined 5. Secondary recovery projects 1.

Developments during 1954.—The number of wells drilled in Kingman County increased from 44 in 1953 to 114 in 1954. Oil production increased from the previous year by more than 37 percent. Only gas production showed a slight decline.

Nine new pools were named in Kingman County during 1954, and one, the Kingman, was revived by a successful Mississippian test. Six of the new pools had the Mississippian named as the producing zone. These are the Banta, Banta Northeast, Broadway West, Spivey East, Spivey Northwest (gas), and Zenda (gas). The Banta, Banta Northeast, and Spivey East were combined with the Spivey pool before the close of the year. In the new Rosedale pool production is from the Lansing rocks, and in the Orsemus South and the Willowdale from the Viola limestone. Data on the discoverers, producing zones, locations, and initial production of the various new Kingman County pools are given in Table 6.



Another significant development in the county during the year was the successful completion of 20 Viola producing wells in the Willowdale pool, where only 2 dry holes were completed. In the Spivey pool 40 new wells, including pool consolidations, and 3 dry holes were completed.

During the year, the Artesian Valley pool, in which 7 new oil wells were added, was combined with the Dresden pool. The Spivey South, discovered in 1953, was combined with the Spivey.

Five of the 13 dry wildcat tests drilled during the year reported shows of oil or gas. Perhaps the most interesting test from a stratigraphic viewpoint is the Phillips Petroleum Company test on the Rago farm in the NW1/4 NW1/4 NW1/4 sec. 15,

TABLE 33.—Dry wildcat tests drilled in Kingman County during 1954

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
F. Kirk Johnson No. 1 Bonjour	NW NW NE 26-27-5W	1,469	2,960	3,766**	3,873
*Greenland Drlg. Co. et al. No. 1 McHenry	SW SE SE 14-28-6W	1,479	3,080	3,944**	4,003
*Petroleum, Inc. No. 1 Dillon	SW SW SW 23-28-8W	1,625	3,384	4,574	4,617
Ute Royalty Corp. No. 1 Biggs	NE NE SE 35-28-8W	1,611	3,340	4,452†	4,473
*Berwick Drlg. & Aurora Gasoline No. 1 Murphy	SW SW NW 30-28-9W	1,725	3,604	4,618	4,668
*Aurora Gasoline & Berwick Drlg. No. 1 Albrecht	SW SW SE 18-29-6W	1,566	3,269	4,652	4,700
*Trans-Era Petro., Inc. et al. No. 1 Miller	N½ NE SE 24-29-9W	1,645	3,520	4,682	4,730
Earl F. Wakefield No. 1 Esther Snyder	NE NE NE 5-30-5W	1,508	3,553††	4,713	4,750
Pickrell Drlg. Co. et al. No. 1 Stevenson	NW NW NW 12-30-6W	1,433	3,225	4,622	4,648
Phillips Petro. Co. No. 1 Rago	NW NW NW 15-30-7W	1,442	3,254	4,619	5,493
Purcell-Mull Drlg. Co., Inc. No. 1 Whitmer	SW SW NW 10-30-9W	1,699	3,633	4,290**	4,614
Aurora Gasoline Co. et al. No. 1 Swingle	NW NW NE 12-30-10W	1,702	3,672	4,714	4,752
Aurora Gasoline Co. No. 1 Campbell Heirs	NE NE SW 15-30-10W	1,759	3,773	4,810	4,844

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

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<sup>\*\*</sup> Depth to the top of the Mississippian, feet.
† Depth to the top of the Simpson, feet.
† Depth to the top of the Kansas City, feet.

T. 30 S., R. 7 W., where 838 feet of Arbuckle dolomite was penetrated. The Kansas Sample Log Service logged the following tops: Lansing rocks, 3,250; Mississippian rocks, 4,088; "Kinderhook" shale, 4,346; Simpson group, 4,503; Arbuckle dolomite, 4,619; and Pre-Cambrian rocks, 5,468 feet. Total depth was reported as 5,492 feet.

Pertinent data on the locations and marker zones encountered in drilling these dry wildcat tests are given in Table 33. The locations of the dry wildcat tests and the producing pools of Kingman County are shown on Figure 16.

Oil production statistics are given in Table 56, and gas in Table 57. Data on the Cunningham field secondary recovery project, which extends into Kingman County from Pratt County, are given in Table 1.

#### KIOWA COUNTY

The 1954 production from 3 pools: oil 2,990 barrels, gas none reported. Wells drilled in 1954: gas 1, dry 2, total 3 including 2 dry wildcats. New pools discovered 1.

Developments during 1954.—Although only three tests were attempted in Kiowa County during 1954, one was successful in finding new reserves. The Aladdin Petroleum Corporation discovered a small gas pool in Mississippian rocks on the Johannsen farm in sec. 13, T. 28 S., R. 19 W. The new Johannsen pool produces from depths of 4,864 to 4,890 feet. No production was reported from the new pool during 1954.

Oil production from Kiowa County dropped to about half the previous year's figure.

Two rank wildcats were completed in 1954. The Aurora Gasoline Company et al. No. 1 Clarkson test in the SW¼ SW¼ NW¼ sec. 25, T. 27 S., R. 16 W. was drilled to a total depth of 4,950 feet. From an elevation of 2,098 feet above sea level, the following tops were logged: Fort Riley limestone, 2,435; Heebner shale, 3,918; Lansing group, 4,095; Mississippian rocks, 4,592; Viola limestone 4,708; Simpson rocks, 4,812; and Arbuckle dolomite, 4,912.

The other dry wildcat test in Kiowa County during 1954 was put down by the Northern Natural Gas Company on the Mullinville lease in the Cen. SE¼ SE¼ sec. 20, T. 28 S., R. 19 W. to a total depth of 5,577 feet. From an elevation of 2,309 feet



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Data on the oil production from Kiowa County's producing pools are given in Table 56, and similar data for gas production are given in Table 57. Significant facts on the new gas discovery are given in Table 6.

## (Map Pl. 1)

The 1954 production: oil from 20 areas in 9 fields 80,931 barrels, gas 26,787 thousand cubic feet. Wells drilled in 1954 (estimated): total 178,

Developments during 1954.—Oil production in Labette County was 64 percent greater in 1954 than in 1953. Data on production in the various fields are listed in Table 56. Gas production is listed in Table 57. Water-flooding data are listed in Table 1. Locations of areas from which oil was produced in 1954 and of water-flooding projects are shown on Plate 1.

#### LANE COUNTY

The 1954 production from 1 pool: oil 2,150 barrels, gas none. Wells drilled in 1954: dry 2 (both wildcats).

Developments during 1954.—The discovery of oil in Lane County in 1952 prompted the search for additional pools during 1954. One exploratory test was drilled by the Natural Gas and Oil Company on the Reifschneider lease in the SW¼ SW¼ Sec. 24, T. 19 S., R. 27 W., 12 miles southeast of Dighton. From an elevation of 2,692 feet above sea level the following tops were logged: Heebner shale, 3,953; Lansing group, 3,998; Marmaton group, 4,410; and Mississippian rocks, 4,621 feet. The total depth is 4,790 feet. There were no shows of oil or gas.

The Cities Service Oil Company drilled a test on the Murphy lease in the NE¼ NE¼ SE¼ sec. 16, T. 20 S., R. 28 W., 18 miles Southeast of the North Fork pool. From an elevation of 2,742 feet above sea level the test found the following marker beds: Stone Corral dolomite, 2,105; Herington limestone, 2,758; Heeb-

ner shale, 4,007; Lansing group, 4,051; Marmaton group, 4,468; Mississippian rocks, 4,667; Viola limestone, 5,046; Simpson group, 5,177; and Arbuckle dolomite, 5,182 feet depth. The total depth is 5,250 feet.

Data on oil production for the county are reported in Table 56.

## LEAVENWORTH COUNTY (Map Pl. 1)

The 1954 production: oil none reported, gas 4,973 thousand cubic feet.

Developments during 1954.—No oil production for Leavenworth County was reported. Gas production in the Roberts-Maywood and Linwood areas is listed in Table 57.

#### LINCOLN COUNTY

Exploratory holes have been drilled in Lincoln County from time to time, but to date no commercial oil or gas pool has been found.

Exploration during 1954.—During 1954 one wildcat test was drilled on the Rhudy farm by the Inland Oil Company in the NW¼ NW¼ NW¼ sec. 30, T. 11 S., R. 7 W. From an elevation of 1,595 feet above sea level this hole found the following marker beds: Heebner shale, 2,576; Lansing group, 2,600; Marmaton group, 3,008; "Cherokee," 3,090; Pennsylvanian basal conglomerate, 3,286; Mississippian rocks, 3,293; Misener sandstone, 3,565; "Hunton" dolomite, 3,572; Viola limestone, 3,746; Simpson group, 3,885; and Arbuckle dolomite, 3,978 feet depth. The total depth is 4,005 feet. A small show of oil was found in a drill-stem test taken from 3,948 to 3,961 feet in the Simpson rocks.

## LINN COUNTY (Map Pl. 1)

The 1954 production: oil from 14 areas in 4 fields 87,505 barrels including approximately 64,979 barrels from secondary recovery projects, gas (estimated) 16,792 thousand cubic feet. Wells drilled in 1954 (estimated): oil 42, input 13, dry 15, total 70.

Developments during 1954.—Oil production in Linn County was nearly 20 percent greater in 1954 than in 1953. The increase is due to hydraulic fracturing and expanded water-flooding ac-



tivities. Oil was produced for the first time, or at least for many years, in the old **Critzer** gas-producing area.

Oil production in the several Linn County areas is listed in Table 56, and gas in Table 57. Water-flooding data are listed in Table 1. Locations of areas from which oil was produced in 1954 and of secondary recovery projects are shown on Plate 1.

#### LOGAN COUNTY

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

Exploration during 1954.—During 1954, a deep dry wildcat test was drilled in Logan County on the Christy lease in the SW¼ SW¼ sec. 34, T. 14 S., R. 32 W., about 18 miles southeast of Russell Springs. The Continental Oil Company drilled this test from an elevation of 2,668 feet above sea level to a total depth of 4,980 feet. The following marker beds were encountered in drilling: Heebner shale, 3,619; Lansing group, 3,658; Marmaton group, 4,026; Mississippian rocks, 4,346; and Arbuckle dolomite, 4,900 feet depth. A drill-stem test at 4,257 feet depth, near the base of the Pennsylvanian rocks, recovered only water.

Two shallow dry holes were reported drilled in T. 34 S., R. 34 W. in March by the Wycoff Brothers Oil Company. In the No. 1 Newcomb test, total depth 965 feet, in the SW¼ SW¼ Sec. 11, the Codell zone was encountered at 900 feet depth. The other test was completed on the Kough farm in the NE¼ NE¼ SW¼ sec. 18. A total depth of 1,020 feet was reported. No tops were reported.

# LYON COUNTY (Map Pl. 1)

The 1954 production from 8 fields: oil 383,426 barrels including approximately 131,826 barrels from secondary recovery projects, gas none. Wells drilled in 1954 (reported): oil 21, dry 8, salt-water disposal 1, total 30 including 3 dry wildcats.

Developments during 1954.—Oil production in Lyon County in 1954 was nearly 46 percent greater than in 1953, due principally to increased production in the Bradfield area. In these two fields, 8 new oil wells were added to the Bradfield and 11 were added to the Bradfield Northwest field. One dry hole was re-



ported in each field. The **Bradfield**, a Viola limestone pool discovered in 1922, was abandoned for many years and revived in 1952. The **Bradfield Northwest** was discovered in 1953.

Three dry wildcat wells were reported in Lyon County in 1954. The L. K. Jones No. 1 Baker well, SW1/4 NW1/4 SW1/4 sec. 34, T. 20 S., R. 13 E., was abandoned at a total depth of 1,761 feet. The top of Kansas City limestone was logged at 959 feet; base of the Kansas City group at 1,075 feet; and top of Mississippian limestone at 1,730 feet. The Nemaha Oil Company No. 1 Jones well, SE¼ SW¼ SE¼ sec. 8, T. 21 S., R. 10 E., was abandoned in September at a total depth of 2,901 feet. Tops were logged as follows: Lansing, 1,286; Kansas City, 1,452; Mississippian, 2,333; Kinderhookian, 2,666; Simpson, 2,847; and Arbuckle, 2,891 feet depth. The Nemaha Oil Company No. 1 Rathke test, Cen. NE1/4 NE¼ sec. 21, T. 21 S., R. 10 E., was abandoned in September in the Arbuckle at a total depth of 2,770 feet. Tops were recorded as follows: Lansing group, 1,142; Kansas City group, 1,333: "Bartlesville sand," 2,042; Mississippian rocks, 2,158; Viola limestone, 2,594; Simpson group, 2,670; and Arbuckle group, 2,719 feet depth.

Oil production in the various Lyon County fields is listed in Table 56. Data on secondary recovery operations are listed in Table 1. Locations of areas from which oil was produced in 1954, of water-flooding projects, and of dry wildcat wells drilled in 1954 are shown on Plate 1.

## McPHERSON COUNTY (Map Fig. 7)

The 1954 production from 37 pools: oil 4,021,567 barrels including production from secondary recovery projects, gas 154,084 thousand cubic feet. Wells drilled in 1954: oil 104, dry 64, saltwater disposal 1, total 169 including 19 dry wildcats.

Developments during 1954.—Oil production from McPherson County increased by about 20 percent, mostly because of concentrated development in the Lively pool, where 46 new Mississippian oil wells and 4 dry holes were completed. The Lansing-Kansas City was named by the Nomenclature Committee as a new producing zone in the Lively pool, with the discovery of a 70 barrels of oil per day well on the Anderson "A" lease by the

A total of 169 new wells were drilled during the year, almost double last year's total. Pool wells include 20 oil wells and 2 dry holes in the Ritz-Canton field; 7 oil wells and 2 dry holes in the

TABLE 34.—Dry wildcat tests drilled in McPherson County during 1954

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Mis- sissippian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Senera Oil Co. No. 1 A. J. Johnson	NW NW SW 2-17-1W	1,362	2,082	2,704		2,755
Petroleum, Inc. No. 1 Nelson	NW SE SW 33-17-3W	1,439	2,369	3,024	3,713	3,739
Dozier Oil Co. No. 1 Sand	NE NE NW 9-18-2W	1,454	2,312	2,999	3,683	3,695
*Rupp-Ferguson Oil Co. No. 1 Larson	SE SE NW 15-18-4W	1,474	2,468	3,111	3,734	3,757
Trans-Era Petro., Inc. et al. No. 1 John Myers	SE SE SE 8-18-5W	1,589	2,704	3,369	3,869	3,969
*Musgrove Petro. Corp. No. 1 Miller	SW SW SW 19-19-3W	1,503	2,516	3,150	3,815	3,865
Durbin Bond et al. No. 1 Durland	SW SW NE 5-19-5W	1,590	2,749	3,396	3,886	3,921
<sup>4</sup> J. S. Cling et al. No. 1 Neel	SW NE SW 8-19-5W	1,690	2,854	3,522		3,552
*W. L. Hartman No. 1 Root	NE NE SE 16-19-5W	1,624	2,790	3,401	, ·······	3,475
*Trans-Era Petro., Inc. No. 1 Raleigh	NE NE NW 22-19-5W	1,598	2,781	3,448		3,475
J. B. Allison No. 1 Allison	NW NW SW 35-19-5W	1,604	2,772	3,430	4,022	4,042
*Musgrove Petro. Corp. No. 1 D. W. Koehn	NE SE SE 8-20-2W	1,495	2,314	2,974		3,005
*Anschutz Drlg. Co. No. 1 Campbell	NW NW NW 5-20-4W	1,524	2,662	3,307	3,951	3,966
*Rex & Morris Drlg. Co. et al. No. 1 Krieg	SE SE SE 35-20-4W	1,473	2,586	3,247	3,872	3,892
*United Drlg., Inc. No. 1 Thiessen	NW SW SW 25-20-5W	1,565	2,803	3,421		3,475
*Shelley-Miller Drlg., Inc. No. 1 Rupp	SW SW SW 13-21-2W	1,497	2,319	2,959		3,029
*Stelbar Oil Corp., Inc. No. 1 Kutnick	SE SE NW 26-21-2W	1,475	2,326	2,972	••••	3,400
*Rupp-Ferguson Oil Co. No. 1 Kornelson	SW SW SW 20-21-4W	1,509	2,670	3,351	3,988	4,008
*D. B. Mitchell et al. No. 1 Neufeld	S½ S½ SE 18-21-5W	1,541	2,812	3,436	3,982	4,034

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service. Independent Oil & Gas Service, and other available data sources have been used.



Groveland South; 8 oil wells and 2 dry holes in the McPherson; and 8 oil wells and 6 dry holes in the Windom pool.

Of 19 dry wildcat tests, only 2 specifically reported shows of oil or gas. Pertinent data on these dry wildcats are tabulated in Table 34.

The Frank Jones No. 2 Opal Russell salt-water disposal well in sec. 23, T. 19 S., R. 2 W. reported the Arbuckle dolomite topped at 3,472 feet depth and penetrated to a total depth of 3,950 feet. a minimum thickness of 478 feet.

Five secondary recovery projects reported operations in Mc-Pherson County during 1954. According to the survey of projects now active, more than 500,000 barrels of the county's production is now classified as secondary recovery production. Data on these developments are given in Table 1.

Oil production statistics by pools for McPherson County are given in Table 56, and similar figures for gas are given in Table 57. The locations of the producing areas, dry wildcat tests, and secondary recovery projects are shown on Figure 7.

#### MARION COUNTY (Map Pl. 1)

The 1954 production from 19 fields: oil 724,777 barrels, gas 123,735 thousand cubic feet. Wells drilled in 1954 (reported): oil 30, dry 32, salt-water disposal 1, total 63 including 12 dry wildcats. New pools discovered 2.

Developments during 1954.—Two oil pools were opened in Marion County in 1954 (Table 6). The Anderson-Prichard Oil Corporation No. 1 Hett well, NE¼ SW¼ sec. 3, T. 19 S., R. 2 E., is the discovery well of the **Durham South**, a Simpson pool. The well was completed as a 43 barrels per day oil well in November. The producing zone is between depths of 3,039 and 3,041 feet. The **Youk**, a Viola limestone pool, was discovered by the Anderson-Prichard Oil Corporation No. 2 Youk well, S½ S½ sec. 20, T. 18 S., R. 2 E., in December. The well was rated at 25 barrels of oil per day. The producing zone is between depths of 3,017 and 3,020 feet.

Marion County's oil production showed an increase of more than 6 percent during 1954. Oil production statistics in the various Marion County fields are listed in Table 56. Gas production



TABLE 35.—Dry wildcat tests drilled in Marion County during 1954

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
Anderson-Prichard Oil Corp. No. 1 "B" Scully	NE NE SW 2-18-2E	2,027	2,610	3,100	3,152
*Stanolind Oil & Gas Co. et al. No. 1 Bina	SW SW SE 13-18-5E	1,590	2,251**	2,135	2,283
*Dieter Petro. Co. et al. No. 1 Duerksen	NE SE NE 16-19-1E	2,212	2,801	3,263	3,362
Carter Oil Co. No. 1 E. B. Schroeder	NW SE SE 19-19 <b>-2E</b>	2,078	2,668	3,109	3,300
*Russell Maguire No. 1 Loveless	Cen. E½ E½ E½ 2-19-4E	1,780	2,330	•••••	2,384
*C. H. Spoor No. 1 Zeiger	SW SW SW 22-19-4E	1,760	2,285	2,585	2,765
*Beaumont Petro. Co. No. 1 Anderson	NE NE SW 2-30-3E	1,825	2,375	2,671	2,700
*Roland Jones No. 1 Grosse	SE SW SW 14-20-3E	1,865	2,410	2,684	2,696
*J. P. Gaty et al. No. 1 Fulkerson	NW SW SW 2-20-4E	1,749	2,230	2,528	2,530
*J. P. Gaty et al. No. 1 Hauser	S⅓ SE NW 3-20-4E	1,760	2,271	2,550	2,580
*Charles Carlock No. 1 Unger	W1 SE NE 8-21-3E	1,953	2,515		2,525
<sup>e</sup> E. H. Adair Oil Co. No. 1 Hale	NE NE NE 33-21-3E	1,963	2,540	2,884	2,955

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.
\*Depth to the top of the Arbuckle, feet.

is listed in Table 57. Data regarding the 12 dry wildcat wells drilled in the county in 1954 are listed in Table 35. Locations of areas from which oil was produced in 1954 are shown on Plate 1.

## MARSHALL COUNTY (Map Pl. 1)

Test wells have been drilled in Marshall County from time to time but no commercial oil or gas pool has been found. One test well was drilled in 1954. The location of this well is shown on Plate 1.

Exploration during 1954.—Early in 1954 the Fred Noren et al. No. 1 Halle well, SE¼ NE¼ NW¼ sec. 13, T. 2 S., R. 6. E., was abandoned at a total depth of 1,930 feet. A complete log of the well is not available; the "Hunton" limestone was logged at 1,512 feet depth.

The Geological Survey has records of 21 wells drilled in Marshall County previous to 1954.

#### MEADE COUNTY

(Map Fig. 14)

The 1954 production from 11 pools: oil 529,008 barrels, gas 3,482,799 thousand cubic feet. Wells drilled in 1954: oil 3, gas 2, dry 6, total 11 including 1 dry wildcat. New pools discovered 1.

Developments during 1954.—Although drilling activity declined to a total of 11 wells during 1954, oil production from Meade County increased about 12 percent, gas production showed an increase of about 17 percent, and one new oil pool was named.

The Ohio Oil Company discovered the **Bond** oil pool in their first test on the Bond ranch in the NW¼ NW¼ SE¼ sec. 32, T. 33 S., R. 30 W., which is the same township location as the large **Novinger** pool. An initial potential of 129 barrels of oil per day was assigned from Atokan rocks from 5,619 to 5,631 feet depth.

Two extension oil wells and one dry hole were added to the **Novinger** field, two gas wells and one dry hole to the **McKinney**, and three dry holes in the **Bruno Northeast** pool.

Only one dry wildcat test was attempted in the county during the year. The Skelly Oil Company drilled this unsuccessful test on the L. T. Gum property in the Cen. NW¼ SW¼ sec. 35, T. 32 S., R. 29 W. to a total depth of 5,867 feet depth, ending in Mississippian rocks. From an elevation of 2,659 feet above sea level pertinent marker zones encountered in the drilling were: Heebner shale, 4,440; Lansing group, 4,580; and Mississippian (Chesteran) rocks, 5,687 feet depth.

The locations of the producing areas and the dry wildcat test are shown on Figure 14. The new pool is described in Table 6. Oil production is given in Table 56, and gas production in Table 57.

### MIAMI COUNTY (Map Pl. 1)

The 1954 production: oil from 28 areas in 4 fields 685,753 barrels including approximately 462,322 barrels from secondary recovery



operations, gas 36,383 thousand cubic feet. Wells drilled in 1954 (estimated): 522.

Developments during 1954.—Oil production in Miami County was nearly 17 percent greater in 1954 than in 1953. Drilling was especially active in the **Louisburg** field where producing zones range in depth from about 270 to 600 feet, and where more than 42,000 barrels of oil was produced. Other drilling in the county principally was in connection with water-flooding operations.

Oil production in the various Miami County areas is listed in Table 56 and gas in Table 57. Water-flooding statistics are listed in Table 1. Plate 1 shows the locations of areas from which oil was produced in the county in 1954 and locations of secondary recovery projects.

#### MONTGOMERY COUNTY

(Map Pl. 1)

The 1954 production: oil from 57 areas in 8 fields 922,153 barrels including approximately 256,385 barrels from secondary recovery operations, gas 473,878 thousand cubic feet. Wells drilled in 1954 (estimated): oil 423, dry 106, input 137, total 666 including 1 dry wildcat.

Developments during 1954.—Oil production in Montgomery County in 1954 was about 27 percent greater than in 1953. A large part of the production came from water-flooding projects and much of the drilling was in connection with these projects. Hydraulic fracturing, as in the previous year, contributed materially to the drilling activity and to the total production of oil.

A dry wildcat well, the Stephens and Crissell No. 1 Uitts, NE cor. NE¼ sec. 18, T. 32 S., R. 16 E., was drilled in the county. The well, which was drilled into Pre-Cambrian rocks, had a total depth of 2,334 feet.

Oil production in the various Montgomery County areas is listed in Table 56 and gas in Table 57. Data on secondary recovery operations are listed in Table 1. Plate 1 shows locations of areas from which oil was produced in 1954 and locations of secondary recovery projects.



### MORRIS COUNTY (Map Pl. 1)

The 1954 production: oil from 5 fields 38,403 barrels, gas 48,966 thousand cubic feet. Wells drilled in 1954 (reported): oil 5, dry 4, total 9 including 2 dry wildcats.

Developments during 1954.—Reported oil production in Morris County in 1954 was slightly less than in 1953. Two dry wildcat wells were reported. The C. R. Atkinson et al. No. 1 Peterson well, NW¼ NW¼ SE¼ sec. 34, T. 16 S., R. 5 E., was abandoned at a depth of 2,268 feet. The top of the Mississippian limestone was recorded at 2,198 feet. The William Grunerwald et al. No. 1 Swenson well, NE¼ NW¼ SW¼ sec. 3, T. 17 S., R. 8 E., was drilled to a total depth of 3,165 feet. Tops were recorded as follows: Mississippian limestone, 2,458; Kinderhookian rocks, 2,694; "Hunton" limestone, 2,845; and Viola limestone, 2,981 feet depth. Among the wells reported in the county, five new oil wells were added to the John Creek, a Viola limestone field discovered in 1953.

Oil production in the Morris County fields is listed in Table 56 and gas production is listed in Table 57. Locations of areas from which oil was produced in 1954 and of the wildcat wells are shown on Plate 1.

## MORTON COUNTY (Map Pl. 2)

The 1954 production from 7 pools: oil 24,545 barrels, gas 47,822,615 thousand cubic feet. Wells drilled in 1954: oil 5, gas 42, dry 4, total 51.

Developments during 1954.—Although the total number of new wells drilled in Morton County during 1954 was 37 less than the high of 88 set in 1953, gas production increased considerably, and oil production was reported for the first time.

In September 1954 the Kansas Nomenclature Committee reconsidered the entire Greenwood area. Gas production from Lansing-Kansas City and younger rocks is now designated as from the Greenwood Area. The previous Greenwood field was divided into the Boehm pool, restricted to production below Lansing-Kansas City rocks (Morrowan only in 1954) and the Greenwood Area (in 1954 gas only) for production from Lansing-



Kansas City and younger rocks. The previous Greenwood South field was divided into the Interstate (oil only in 1954) pool which is restricted to production from rocks older than Lansing-Kansas City and the Greenwood Area for production from Lansing-Kansas City and younger rocks. This decision rescinded an earlier order combining the original Greenwood and Greenwood South fields.

Gas production from Morton County was almost double that for 1953. More than 20,656 million cubic feet of gas from 50 wells was reported from the Greenwood Area, and the 263 Chase group wells in the Hugoton Gas Area of Morton County reported 24,867 million cubic feet of gas production. Smaller amounts of gas were reported from the Boehm and Richfield fields.

All 5 of the new oil wells were drilled in sec. 29, T. 34 S., R. 43 W. on Federal land in the Interstate pool. Routine development drilling in the various Morton County fields added 2 gas wells and 1 dry hole to the Dreyer field, 26 gas wells and 1 dry hole to the Greenwood Area, 14 gas wells and 1 dry hole to the Hugoton Gas Area, and 1 dry hole to the Richfield field.

The new Morton County oil and gas wells are shown on Plate 2. Gas production is listed in Table 57 and oil production in Table 56.

#### NEMAHA COUNTY (Map Pl. 1)

The 1954 production from 3 fields: oil 37,570 barrels.

Developments during 1954.—Reported oil production in Nemaha County in 1954 was slightly less than in 1953. No drilling was reported.

Oil production in the Nemaha County fields is listed in Table 56. Locations of the areas from which oil was produced are shown on Plate 1.

#### NEOSHO COUNTY (Map Pl. 1)

The 1954 production: oil from 29 areas in 10 fields 617,628 barrels including 390,014 barrels from secondary recovery operations, gas 172,282 thousand cubic feet. Wells drilled in 1954 (estimated): oil 193, dry 54, input and water-supply 72, total 319,



Developments during 1954.—Oil production in Neosho County in 1954 showed a slight increase over 1953. The greatest reported drilling activity was in the large **Humboldt-Chanute** field in which 11 oil wells, 3 gas wells, 6 dry holes, and 4 repressuring wells were reported. Hydraulic fracturing was used on a smaller scale than in the previous year but contributed materially to the drilling activity, which principally was in connection with the county's wide-spread secondary recovery operations.

Oil production in the various Neosho County areas is listed in Table 56, gas in Table 57. Data on water-flooding operations are listed in Table 1. Locations of areas from which oil was produced in 1954 and of water-flooding projects are shown on Plate 1.

## NESS COUNTY (Map Fig. 12)

The 1954 production from 5 pools: oil 262,818 barrels, gas none. Wells drilled in 1954: oil 5, dry 6, total 11 including 4 dry wildcats. New pools discovered 1.

Developments during 1954.—Production of oil in Ness County during 1954 was slightly less than that of 1953; drilling declined by two wells.

One exploratory test was successful in finding a new oil pool. The Aldrich Northeast pool was discovered by the Barnett Oil Company No. 1 Shearer well in the SW¼ SW¼ SE¼ sec. 23, T. 17 S., R. 25 W. Production is from the Warsaw limestone (Mississippian) from 4,398 to 4,405 feet. Total depth of the well

TABLE 36.—Dry wildcat tests drilled in Ness County during 1954

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
*F. K. Johnson No. 1 Moelenkamp	NW NW NW 3-17-25W	2,539	3,891	4,506	4,695
*J. S. Mull et al. No. 1 Caster	NE NE NE 32-17-26W	2,574	3,941	4,506	4,526
*W. Gruenerwald No. 1 Everrett	SE SE SE 2-18-26W	2,566	3,920	4,505	4,521
*North American Petro. Co. No. 1 Lahner	NW NW NW 24-20-24W	2,275	3,723	4,365	4,825

<sup>\*</sup> No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



is also 4,405 feet. The initial potential of the well was reported as 66 barrels of oil per day. Before the close of the year two successful offset wells in the pool were completed by the Magnolia Petroleum Company.

Four dry wildcat tests were drilled in the county during the year. Significant information concerning the tops encountered in drilling these tests is given in Table 36. All the dry wildcat tests reported shows of oil or gas; one, the North American Petroleum Company No. 1 Lahner test in sec. 24, T. 20 S., R. 24 W., penetrated Arbuckle rocks at 4,778 feet depth before abandonment at 4,825 feet.

Two oil wells, one dry hole, and one temporarily abandoned well were drilled in the Aldrich pool during the year.

The new oil pool is described in Table 6. The locations of the various Ness County pools and the 1954 dry wildcat tests are shown on Figure 12. Oil production is tabulated by pools in Table 56.

## NORTON COUNTY (Map Fig. 5)

The 1954 production from 5 pools: oil 755,743 barrels, gas none. Wells drilled in 1954: oil 80, dry 44, total 124 including 33 dry wildcats. New pools discovered 1.

Developments during 1954.—Oil production from Norton County during 1954 was more than 7 timese that of the previous year. This increase was due entirely to the rapid development of the Norton oil field, where 79 new oil wells and only 8 dry holes were completed during 1954. The only other oil well completion during the year was an extension well in the Ray Northwest pool.

The Murfin Drilling Company No. 1 Baird well in the NE¼ NW¼ SW¼ sec. 13, T. 5 S., R. 21 W. was named as the discovery well of the Ray North pool; however, good initial recovery from the well decreased and the water ratio increased until the well was declared dry and abandoned because of lack of commercial production. Additional data on the well are given in Table 6.

The 33 dry wildcat tests were widely scattered over the county. Tops of the Lansing group and Arbuckle dolomite (where present) in these dry wildcat tests are given in Table 37.



TABLE 37.—Dry wildcat tests drilled in Norton County during 1954

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
*Jones, Shelburne & Farmer, Inc. No. 1 Gramzow	NE NE SW 10-1-22W	2,331	3,400	3,695	3,745
*Jones, Shelburne & Farmer, Inc. No. 1 Keene	NE NE SE 18-1-22W	2,395	3,434	3,704**	3,710
*Jones, Shelburne & Farmer, Inc. No. 1 McCelland	NW NW NW 28-1-22W	2,358	3,437	3,688	3,770
Jones, Shelburne & Farmer, Inc. No. 1 Anderson "B"	NW NW NW 18-2-23W	2,451	3,458	3,709	3,750
Empire Drlg. Co. No. 1 Kohfield	SE SE SW 21-2-23W	2,365	3,410	3,630	3,653
Jones, Shelburne & Farmer, Inc. No. 1 Coler	NW NW SW 6-2-24W	2,513	3,462	3,772**	3,775
*Jones, Shelburne & Farmer, Inc. No. 1 Sheldon	SE SE NE 14-2-24W	2,417	3,414	3,672	3,702
*Jones, Shelburne & Farmer, Inc. No. 1 Hansen	SE SE SE 9-2-25W	2,524	3,449	3,765**	3,766
*Jones, Shelburne & Farmer, Inc. No. 1 Bolliger	SW SW SW 17-2-25W	2,497	3,443	3,781	3,820
*Jones, Shelburne & Farmer, Inc. No. 1 Bishop	NE NE NW 24-2-25W	2,499	3,446	3,790**	3,821
*Jones, Shelburne & Farmer, Inc. No. 1 Harper	SW SW NW 19-3-22W	2,452	3,576	3,824	3,887
*Petroleum, Inc. No. 1 Allen	SE SE NE 30-3-22W	2,417	3,572	3,814	3,909
*Jones, Shelburne & Farmer, Inc. No. 1 Coleman	NW NW NE 5-3-23W	2,361	3,411	3,644**	3,655
C-G Drlg. et al. No. 1 Horesky	NE NE SE 15-3-23W	2,428	3,514	3,737	3,810
*Jones, Shelburne & Farmer, Inc. No. 1 Stewart	NE NE NE 26-3-23W	2,401	3,505	3,758**	3,778
Trans-Era Petro., Inc. No. 1 King	SW SW SE 17-3-24W	2,402	3,410	3,671**	3,675
*Jones, Shelburne & Farmer, Inc. No. 1 Brown	SW SW SW 27-3-24W	2,453	3,495	3,767**	3,799
Jones, Shelburne & Farmer, Inc. No. 1 Ankenman	SW SW SE 29-3-24W	2,402	3,438	3,789**	3,811
Harry Gore No. 1 Brunson	NW NW SW 32-3-24W	2,469	3,515	3,808	3,912
Henderson Oil Co. et al. No. 1 Leichliter	SW SW NE 8-3-25W	2,540	3,526	3,898	3,958
Peel-Hardman Oil Pro- ducers No. 1 Mizell	SW SW NW 10-3-25W	2,510	3,497	3,875	3,902
*Sauvage & Dunn Drlg. Co., Inc. No. 1 Collins	NE NE SW 21-3-25W	2,479	3,483	3,828	3,926
*Jones, Shelburne & Farmer, Inc. No. 1 Brunk	NW NW NW 22-3-25W	2,397	3,392	3,732	3,822
Trans-Era Petro., Inc. No. 1 Humphrey	N <sup>1</sup> NE NE 25-3-25W	2,340	3,365	3,718**	3,730



Empire Drlg. Co. No. 1 Breeden Est.	NE NE NW 13-5-24W	2,292	3,442	3,759	3,820
Empire Drlg. & Harry Gore No. 1 Magill	NE NE SE 12-5-23W	2,228	3,421	3,765	3,780
Peel-Hardman Oil Producers No. 1 Voss	NE NE NE 28-5-22W	2,208	3,427	3,714	3,770
Trans-Era Petro., Inc. et al. No. 1 McKinley	NE NE NW 23-5-22W	2,227	3,462	3,755	3,790
The Texas Co. No. 1 M. B. Reed	SE NE SW 11-4-24W	2,452	3,535	3,820	3,865
Sohio Petro. Co. No. 1 Schaudler	NE NE NE 28-4-23W	2,300	3,462	3,807	3,874
*Jones, Shelburne & Farmer, Inc. No. 1 Wiles	SW SW NW 16-4-22W	2,365	3,566	3,843	3,892
*Jones, Shelburne & Farmer, Inc. No. 1 Fisher	SW SE SW 11-4-22W	2,238	3,475	3,757	3,767
Natl. Coop. Ref. Assn. No. 1 Stone	NW SE NE 30-4-21W	2,151	3,382	3,619	3,688

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

"Depth to the top of granite, feet.

Additional data on the Norton oil field are given by Merriam and Goebel (1954). Figure 5 shows the locations of the Norton County oil fields and the 1954 dry wildcat tests. Production statistics by pools are given in Table 56.

#### OSAGE COUNTY (Map Pl. 1)

Test wells have been drilled in Osage County from time to time but no commercial oil or gas pool has been found. The Geological Survey has records of 69 wells drilled in the county previous to 1954.

Exploration during 1954.—One test well was drilled in Osage County in 1954. It is the Barbara Oil Company No. 1 Ramshaw well, SW¼ NW¼ NE¼ sec. 15, T. 16 S., R. 17 E., which was abandoned at a total depth of 1,960 feet. The following tops were reported: Kansas City limestone, 566; Ft. Scott limestone, 914; "Cherokee" shale, 1,009; Mississippian limestone, 1,474; Kinderhookian rocks, 1,725; Chattanooga shale, 1,756; Viola limestone, 1,786; Simpson group, 1,848; and Arbuckle rocks, 1,929 feet. The location of the well is shown on Plate 1.

### OSBORNE COUNTY (Map Fig. 6)

The 1954 production from 1 pool: oil 90,155 barrels. Wells drilled in 1954: total 2 (dry wildcats).

Developments during 1954.—Two attempts were made during 1954 to find additional oil production in Osborne County. One of the exploratory tests was drilled by Markan, Inc. on the Enochs farm in the Cen. S. line SE¼ NE¼ sec. 25, T. 8 S., R. 13 W. From an elevation of 1,842 feet above sea level the following marker beds were reported: Topeka limestone, 2,772; Heebner shale, 3,053; Lansing group, 3,092; Mississippian rocks, 3,690; Viola limestone, 3,882; Simpson group, 4,027; and Arbuckle dolomite, 4,077 feet. There were no shows of oil or gas and the test was abandoned at 4,162 feet depth.

The second wildcat test is located on the La Rosh farm in the NW¼ NW¼ SE¼ sec. 23, T. 8 S., R. 14 W. It was drilled by the Texas and Pacific Coal and Oil Company to a total depth of 3,740 feet. From an elevation of 1,790 feet above sea level the following marker beds were found: Stone Corral dolomite, 1,008; Heebner shale, 2,939; Lansing group, 3,005; Pennsylvanian basal conglomerate, 3,470; Viola limestone, 3,522; Simpson group, 3,637; and Arbuckle dolomite, 3,686 feet depth. A drill-stem test from 3,030 to 3,048 feet depth in the Lansing rocks recovered only water.

Osborne County's only oil-producing pool, the **Ruggles**, is shown on Figure 6. Oil production is reported in Table 56.

#### OTTAWA COUNTY

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

Exploration during 1954.—During 1954 one dry wildcat test was drilled in Ottawa County, about 5 miles north of Minneapolis. The test was drilled by Stearns Drilling Company et al. on the Gooch farm in the NE¼ NE¼ NW¼ sec. 7, T. 10 S., R. 3 W., to a total depth of 3,847 feet. The test, drilled from an elevation of 1,331 feet above sea level, logged the following tops: Ft. Riley limestone, 742; Neva limestone, 1,120; Heebner shale, 2,092; Lansing group, 2,217; Mississippian rocks, 2,894; "Kinderhook"



shale, 3,157; Viola limestone, 3,550; Simpson group, 3,655; and Arbuckle dolomite, 3,745 feet depth. No shows of oil or gas were reported.

# PAWNEE COUNTY (Map Fig. 11)

The 1954 production from 28 pools: oil 1,512,658 barrels, gas 3,934,660 thousand cubic feet. Wells drilled in 1954: oil 76, gas 11, dry 64, salt-water disposal 2, total 153 including 29 dry wildcats. New pools discovered 8, combined 3.

Developments during 1954.—A 36 percent increase in oil production over the 1953 figure was reported for Pawnee County oil fields during 1954. Gas production showed an increase of a little more than 25 percent. The total number of wells drilled was only 4 less than in 1953.

Eight new oil or gas pools were named by the Kansas Nomenclature Committee during 1954. The oil pools are: Garfield Northeast, Mississippian; Garfield Southwest, Misener; Jay, Simpson; Lovett, Lansing-Kansas City; Shiley, Pennsylvanian basal conglomerate; and Shiley East, Pennsylvanian basal conglomerate. The Jab pool is a new Pennsylvanian basal conglomerate gas pool, and the Sweeney West, which was combined later in the year with the Sweeney pool, has both oil and gas production from Arbuckle dolomite. Data on the discoverers, locations of discovery wells, thicknesses of producing zones, and initial potentials are tabulated for these new pools in Table 6.

Three new producing zones in old fields were named also during the year. Two of these are the Mississippian from 4,279 to 4,284 feet depth in the Garfield oil field and the Simpson group from 4,106 to 4,112 feet depth in the Hearn gas field. Mississippian rocks were named as a new zone in the Garfield Southwest pool; however, the discovery well of the zone was abandoned without production. Additional data on these developments are given in Table 7.

During the year, 36 extension oil wells, 1 dry hole, and 1 old well worked over and completed as an oil well were added to the Garfield field. Other pools adding 5 or more new wells were the Benson, 6 oil and 2 dry; the Larned, 9 oil, 3 dry, and 1 saltwater disposal well; the Shiley, 5 oil and 3 dry; the Shady South-



TABLE 38.—Dry wildcat tests drilled in Pawnee County during 1954

		Surface eleva- tion.	Depth to top of LansK.C.,	Depth to top of Arbuckle.	Total depth.
Company and farm	Location	feet	feet	feet	feet
Coppinger Drlg. et al. No. 1 Hagerman	SW SW SE 6-20-17W	2,181	3,609	4,021	4,070
*Imperial Drlg. Co., Inc. No. 1 Conard	NE NE NW 30-20-17W	2,149	3,604	4,010	4,077
*Imperial Drlg. Co., Inc. No. 1 Black	SW NW SW 11-20-18W	2,157	3,591	4,024	4,064
Musgrove Petro. Corp. No. 1 Fox	NE NE SE 19-20-18W	2,203	3,674	4,163	<b>4,2</b> 15
Carl Todd Drlg. Co. No. 1 Ideker	Cen E½ SE SW 13-20-19W	2,176	3,642	4,152	4,260
Musgrove Petro. Corp. No. 1 "A" Geo. Johnson	SE SE NW 34-20-19W	2,235	3,807	4,499**	4,530
*Republic Natural Gas Co. et al. No. 1 Harms-Spruill	NE SW SW 15-20-20W	2,218	3,707	4,404**	4,506
*Natural Gas & Oil et al. No. 1 Schartz-Weber	NE SE SW 26-21-15W	1,964	3,472	3,869	3,910
Trans-Era Petro., Inc. No. 1 De Roo	SE SE NW 17-21-16W	2,002	3,465	3,798	3,850
Amerada Petro. Corp. No. 1 Minor	SW SE SE 25-21-17W	2,066	3,548	3,917	4,342
Thos. Allan et al. No. 1 Hays	SW SW SE 28-21-17W	2,033	3,515	3,919	<b>3,9</b> 70
K & E Drlg., Inc. et al. No. 1 Gore Estate	NW NW NE 30-21-17W	2,069	3,538	3,926	4,016
Sterling Drlg. Co. et al. No. 1 Darnall	NE NE SE 29-21-18W	2,077	3,665	4,152	<b>4,2</b> 02
*Welch & Olsson Oil Co. et al. No. 1 Steffen	SE NW SE 8-21-20W	2,116	3,654	4,534	4,558
*Welch & Olsson Oil Co. et al. No. 1 Bryant	SW SE NW 11-21-20W	2,138	3,665	4,435	4,500
Loffland Bros. et al. No. 1 Compton	SW SW SW 10-22-15W	1,995	3,531	3,963	3,989
*Natural Gas & Oil Corp. No. 1 Wesley	SW SE SW 11-22-15W	1,978	3,519	3,980	4,015
Musgrove Petro. Corp. No. 1 "C" Smith	SW SW SE 17-22-15W	1,998	3,541	4,020	<b>4,06</b> 5
*Petroleum, Inc. et al. No. 1 Ackerman	NE SW SW 24-22-15W	1,981	3,551	4,035	4,065
Carl Todd Drlg. Co. No. 1 Buster	SE SE NE 10-22-16W	2,015	3,589	4,056	4,105
Gulf Oil Corp. No. 1 State Hospital	SE SE SW 1-22-17W	2,019	3,543	3,919	3,956
Gulf Oil Corp. No. 1 Wm. J. Haege	NE NE NE 13-22-17W	2,022	3,600	4,104	4,155
*Graham-Messman-Rinehart Oil Co. No. 1 "A" Higgins	NE NE SW 19-22-18W	2,110	3,775	4,651	4,699
*Coppinger Drlg., Inc. et al. No. 1 Grant	SE SE NE 27-22-18W	2,089	3,796	4,637	4,685

Natural Gas & Oil et al. No. 1 McComas	NE SW SW 1-23-15W	1,991	3,590	4,046	4,086
Buick Drlg., Inc. et al. No. 1 Wurm	NE NE SW 12-23-16W	2,029	3,638	4,156	4,186
*Coppinger Drlg., Inc. et al. No. 1 Martin	SW SW NE 12-23-17W	2,078	3,714	•••••	4,380
'Bay Petroleum Corp. No. 1 Carpenter	NW SE NE 25-23-17W	2,077	3,763	4,462	4,500
J. J. Lynn et al. No. 1 W. R. McClaren et al.	SE SE NE 27-23-18W	2,104	3,862		4,496

<sup>&#</sup>x27;No electric or radioactivity logs 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.

west, 2 oil, 3 gas, and 2 dry holes; and the Sweeney, 5 oil, 6 gas, and 3 dry.

In addition to the new Sweeney West pool, the Sweeney Southwest and Torrance pools were combined with the Sweeney during 1954.

Of the 29 dry wildcat tests completed during 1954, only 6 specifically reported shows of oil or gas, although many drill-stem tests were taken. Data on the tops to the important marker zones encountered in drilling are given in Table 38, along with the locations and operating companies.

Locations of Pawnee County's dry wildcat tests and producing areas are shown on Figure 11. Oil production data are given in Table 56, and gas production in Table 57.

### PHILLIPS COUNTY

(Map Fig. 6)

The 1954 production from 17 pools: oil 2,062,673 barrels. Wells drilled in 1954: oil 8, dry 6, total 14 including 4 dry wildcats. New pools discovered 2.

Developments during 1954.—Although total oil production from Phillips County was slightly less than last year, and two fewer wells were drilled, two oil pools were discovered.

The Mont-Sol Lansing-Kansas City pool was discovered by the Sohio Petroleum Company No. 1 Krause well in the SE¼ SE¼ SE¼ sec. 1, T. 4 S., R. 19 W. An initial potential of 408 barrels of oil per day from depths of 3,255 to 3,265 feet was given the discovery well. Offset drilling and development resulted in four additional oil wells and one dry hole being completed in the pool during the year.

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, 1eet
*J. J. Lynn No. 1 Marklein	NE SW NW 33-3-19W	2,090	3,308	3,622	3,672
Russell Cobb, Jr. No. 1 Jacobs	NW SE NW 16-3-20W	3,331	3,576	3,875	3,900
Natl. Coop. Ref. Assn. No. 1 Becker	SW SW SW 29-4-20W	3,040	3,277	3,575	3,660
*D. G. Hansen & C-G Drlg. Co. No. 1 Fox	SE SE SE 17-5-19W	3,124	3,370	3,643	<b>3,6</b> 95

TABLE 39.—Dry wildcat tests drilled in Phillips County during 1954

The Wolf Creek pool was named by the Kansas Nomenclature Committee when the discovery well, the Jones, Shelburne and Farmer, Inc. No. 1 Bales, was assigned an initial potential of 20 barrels of oil per day. Production is from the Lansing-Kansas City group of rocks from 3,212 to 3,214 feet depth. Additional pertinent data on these discovery wells are given in Table 6.

The other two oil wells drilled in the county during the year were completed by the Cities Service Oil Company on their Templeton lease in sec. 14, T. 5 S., R. 20 W., in the Hansen pool.

The depths to the top of the Topeka limestone, Lansing-Kansas City group, and the Arbuckle dolomite in the four dry wildcats drilled during the year are compiled in Table 39. The locations of dry wildcat tests, their total depths, and the locations of the various Phillips County producing areas are shown in Figure 6.

Statistical data on the oil production from the Phillips County oil pools are given in Table 56.

# PRATT COUNTY (Map Fig. 15)

The 1954 production from 34 pools: oil 2,882,565 barrels including production from 1 secondary recovery project, gas 1,182,714 thousand cubic feet. Wells drilled in 1954: oil 47, gas 1, dry 45, salt-water disposal 3, total 96 including 20 dry wildcats. New pools discovered 8.

Developments during 1954.—Oil production showed a slight gain over the total figure reported in 1953. Gas production de-



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

clined slightly, and 96 wells were drilled in 1954 compared to 131 in 1953; however 8 new pools were discovered. The discovery well of each of these was rated at more than 100 barrels of oil per day.

TABLE 40.—Dry wildcat tests drilled in Pratt County during 1954

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Viola, feet	Depth to top of Simpson, feet	Depth to top of Arbuckle, feet	Total depth, feet
Deep Rock Oil Corp. No. 1 Slater	SW SW NE 1-26-11W	3,544	4,219	4,314	4,396	4,448
Natural Gas & Oil Corp. No. 1 Shriver	SW SE NW 16-26-11W	3,617	4,245	4,336	4,409	4,463
Trans-Era Petro., Inc. et al. No. 1 Martin	SW SW NW 36-26-11W	3,602	4,297	4,385	4,468	4,518
*Natural Gas & Oil Corp. No. 1 Webb	SE NW NW 18-26-12W	3,726	4,200	4,306	4,415	4,462
Cooperative Refinery Assn. No. 1 Montgomery	NW NW NW 1-27-12W	3,679	4,332	4,430	4,515	4,560
A. G. Hill No. 1 Watson	SW SW SE 7-27-13W	3,861	4,374	4,409	4,510	4,530
Lario Oil & Gas Co. No. 1 Moon	SW NE SW 13-27-14W	3,893	4,373	4,522	4,613	4,655
Musgrove Petro. Corp. No. 1 Tatlock	NE NE NE 6-27-15W	3,985	4,537	4,708	4,799	4,843
*Rooney-Siegfried et al. No. 1 Ward	NE NE NW 12-27-15W	3,959	4,548	4,591	4,678	4,730
Sinclair Oil & Gas Co. No. 1 Frank Smith	SE NE SW 17-28-13W	3,858	4,382	4,456	4,569	4,600
Lario Oil & Gas Co. No. 1 Patterson	SE NW SE 4-28-14W	3,973	4,543	4,610	4,710	4,736
Lario Oil & Gas Co. et al. No. 1 Woolfolk	SW SW SE 15-28-14W	3,940	4,461	4,506	4,590	4,640
*R. W. Rine Drlg. Co. No. 1 Baker	NE NE NW 23-28-14W	3,914	4,440	4,504	4,607	4,640
*Musgrove Petro. Corp. No. 1 Thompson	NE NE NW 27-28-14W	3,929	4,444	4,549	4,624	4,681
Cooperative Refinery Assn. No. 1 Spines	NE NE NW 28-28-14W	<b>3</b> ,961	4,470	4,569	4,639	4,677
Lario Oil & Gas Co. No. 1 "B" Eubank Estate	NE SE NW 30-28-14W	4,046	4,546	4,668	4,762	4,797
Musgrove Petro. Corp. No. 1 Schrepel	SW SW SW 20-29-14W	4,077	4,595	4,658	4,735	4,765
Lario Oil & Gas Co. No. 1 Schrepel	NW NW SE 16-29-14W	4,032	4,522	4,591	4,690	4,716
Rupp-Ferguson Oil Co. No. 1 Brown	SW SW NE 3-29-15W	4,046	4,586	4,702	4,808	4,838
Skelly Oil Co. No. 1 C. D. Hogard	NE SE NW 15-29-15W	4,018	4,614	4,698	4,809	4,865

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.



The new pools are the Cairo North, in the Viola limestone; the Chance North, Chance Northwest, Coats North, Earl, and Fitzsimmons South, in Simpson rocks; and the Lion Northeast and Tatlock, which are Lansing-Kansas City pools. In the Cairo North pool 2 oil wells and 1 dry hole were completed during the year. Among the other new pools, Chance North had 2 oil wells; Chance Northwest, 4 oil wells and 1 dry hole; Coats North, 2 oil wells and 2 dry holes; Earl, 4 oil wells; Fitzsimmons South, 2 oil wells; Lion Northeast, 1 oil well and 2 dry holes; and Tatlock, only the discovery well.

Five new producing zones in the old fields were named in Pratt County during 1954. These are the Lansing-Kansas City in the Chance East field, the Marmaton in the Coats North, the Mississippian in the Iuka-Carmi, the Viola limestone in the Frisbie Northeast, and the Simpson in the Iuka-Carmi Northwest. Additional data on these developments are given in Table 7.

The Iuka-Carmi field had the largest number of extension oil wells drilled during the year: 15 oil, 7 dry, and 7 oil resulting from the reworking of old holes.

Wildcat drilling was wide spread throughout the county, and many exceptionally good shows of oil or gas were reported. Data on the depths to the marker zones are given in Table 40.

Additional data on the discovery wells of Pratt County's new oil pools are given in Table 6. The locations of the new pools, old producing areas, and the dry wildcat tests are shown on Figure 15. Oil production by fields is given in Table 56, and Table 57 contains similar data for gas production.

#### RAWLINS COUNTY

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

Exploration during 1954.—Three attempts were made in 1954 to find commercial quantities of oil in Rawlins County. One of the exploratory tests is located about 7 miles north of McDonald on the Kacirek farm in the NE¼ SE¼ SW¼ sec. 8, T. 2 S., R. 36 W. The test was drilled by the Ashland Oil and Refining Company in August to a total depth of 5,072 feet. Marker beds encountered in drilling from an elevation of 3,367 feet above sea level are: Dakota formation, 2,255; Stone Corral dolomite, 3,245;



Topeka limestone, 4,225; Lansing group, 4,372; Marmaton group, 4,601, "Cherokee" rocks, 4,835; Mississippian rocks, 4,997; and Arbuckle dolomite, 5,007 feet depth. Shows of oil were reported from the Topeka limestone and the Lansing group. Further tests were unsuccessful, and the hole was abandoned and reported as dry.

Another exploratory test was drilled earlier in the year by the B-R-G Drilling Company on the Hamilton lease in the SW¼ SW¼ SE¼ sec. 17, T. 5 S., R. 31 W. to a total depth of 4,655 feet. Drilling from an elevation of 2,937 feet above sea level, the test found the Heebner shale at 3,904 feet, the Lansing group at 3,953 feet, Mississippian rocks at 4,504 feet, and the Arbuckle dolomite (?) at 4,615 feet depth. No shows of oil were reported.

A wildcat test for which no tops were reported was listed on the scout reports as being drilled by the Columbian Fuel Corporation on the Sloko property in the Cen. NW¼ SE¼ sec. 18, T. 1 S., R. 31 W. An elevation of 2,930 feet above sea level and a total depth of 2,520 feet were reported.

### RENO COUNTY (Map Fig. 7)

The 1954 production from 18 pools: oil 1,403,319 barrels including production from secondary recovery projects, gas 364,866 thousand cubic feet. Wells drilled in 1954: oil 16, dry 21, total 37 including 15 dry wildcats. New pools discovered 1.

Developments during 1954.—Although two fewer wells were attempted in Reno County during 1954 than in 1953, total oil production was up about 7 percent. Gas production decreased almost 20 percent.

Exploration resulted in the naming of one new pool in Reno County during 1954. The Grove pool was opened by the Schermerhorn Oil Corporation No. 1 Morris well, a 23-barrels of oil per day well in the N½ NE¼ NW¼ sec. 12, T. 25 S., R. 10 W. The producing zone, the Mississippian, is from 3,884 to 3,895 feet depth. An offset well to the north in sec. 1 was unsuccessful.

Four extension oil wells and 1 dry hole were completed in the **Buhler** pool, 1 oil well in the **Burrton** pool, 1 oil well in the **Nicklaus** pool, 1 oil well and 2 dry holes in the **Sankey Southwest** pool, and 8 oil wells in the **Sterling** pool.



Of the 37 wells attempted, 15 were dry wildcats. Of these exploratory holes, only 2 specifically reported shows of oil or gas, but in most considerable drill-stem testing took place during the drilling. Tops to marker beds in these tests are given in Table 41.

The new pool is described in Table 6. The locations of the county's producing pools and dry wildcat tests are shown on Figure 7. Oil production is reported in Table 56, and similar information on gas production is given in Table 57. Data on secondary recovery projects are given in Table 1.

TABLE 41.—Dry wildcat tests drilled in Reno County during 1954

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Mis- sissippian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Globe Oil & Refg. Co. No. 1 "B" Marilyn Drake	SE NW NW 7-22-9W	3,103	3,522**	3,684	3,721
*Gramehart-Miller Oil Co. No. 1 Teter	SW SE NE 11-23-5W	2,784	3,453	3,948§	3,956
*Brooks Pierce et al. No. 1 C. F. Swanson	SE SE SE 21-23-5W	2,718	3,390	3,956	3,975
Iron Drlg. Co. No. 1 C. C. Ramsey	SW SW SW 16-23-8W	3,200	3,698	4,103	4,140
*Midstates Oil Corp. et al. No. 1 Oehlert	NW SE SW 17-25-4W	2,762	3,515	4,068	4,100
Rupp-Ferguson Oil Co. No. 1 Rogers	NE NE NW 25-25-6W	2,799	3,487	4,003	4,038
Schermerhorn Oil Corp. No. 1 Brownlee	SE SE SW 6-25-10W	3,445	3,895	4,236	4,270
Schermerhorn Oil Corp. No. 1 David Nies	SE NW NW 20-25-10W	3,504	3,953	4,334	4,390
*Trans-Era Petro., Inc. et al. No. 1 Bender	SW SW SE 13-26-5W	2,846	3,592	4,137	4,158
*Trans-Era Petro., Inc. et al. No. 1 Knoblauch	SE SE SE 26-26-5W	2,818	3,578	4,104	4,126
*Stearns Petro., Inc. No. 1 Bergkamp	SE SE SE 33-26-5W	2,977	3,713	4,258	4,270
*Greenland Drlg. Co. et al. No. 1 Collinwood	NW NW NE 8-26-7W	3,242	3,851	4,323	4,341
*Harms-Burt et al. No. 1 Jones	NE NE SE 26-26-9W	3,360	3,944	4,384	4,433
*Rupp-Ferguson Oil Co. No. 1 Hickman	SW SW SW 5-26-10W	3,510	3,973	4,202**	<b>4,3</b> 79

No electric or radioactivity logs 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.

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<sup>§</sup> Depth to the top of the Simpson, feet.

### RICE COUNTY (Map Fig. 7)

The 1954 production from 56 pools: oil 7.578.134 barrels including production from secondary recovery projects, gas 509,802 thousand cubic feet. Wells drilled in 1954: oil 108, gas 2, dry 48, salt-water disposal 3, total 161 including 4 dry wildcats. New pools discovered 3.

Developments during 1954.—Although oil production from Rice County decreased by 10 percent from 1953 and the total number of new wells drilled decreased by 15 percent, the county maintained its place as the fifth largest producing county in the State.

Three new oil pools were discovered in Rice County during 1954. The **Bushton** pool was named when the Lario Oil and Gas Company found Arbuckle production on the Shonyo lease in sec. 11, T. 18 S., R. 10 W. The Pennsylvanian basal conglomerate is the producing zone in the new Crawford Southeast pool, discovered by The Derby Oil Company on the Wolf lease in sec. 20, T. 18 S., R. 6 W. In the new Raymond East pool, discovered by Petroleum, Inc. in sec. 25, T. 20 S., R. 10 W., the Simpson group was named as the producing zone. Data on the initial potentials, thicknesses of producing zones, and spot locations for the discovery wells of these new pools are given in Table 6.

The Simpson rocks from 3,280 to 3,290 feet depth were named as a new producing zone in an old producing field, the Frederick, when The Lotus Oil Company No. 1 Schroeder well in sec. 10,

TABLE 42.—Dry wildcat tests drilled in Rice County during 1954

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Penn. basal congl., feet	Depth to top of Mis- sissippian, feet	Total depth, feet
*Heathman-Seeligson Drlg. Co. No. 1 Kasparek	NW SE NW 13-18-6W	2,804	3,290	3,422	3,440
*Virginia Drlg. Co., Inc. et al. No. 1 Froning	SE NE SW 15-18-8W	2,908	3,290	3,399**	3,424
*Amerada Petro. Corp. No. 1 Helen Kottmann	NE NE NW 23-20-9W	2,887	3,220	3,384†	3,395
*Bennett & Gould No. 1 Johnson	NE NE NW 19-21-6W		3,450	3,509	3,530

<sup>\*</sup>No electric or radioactivity logs 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.
Depth to the top of the Arbuckle, feet.

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T. 18 S., R. 9 W. was given an initial potential of 25 barrels of oil per day. Additional data on this development are given in Table 7.

Routine drilling added 15 oil wells, 1 salt-water disposal well, and 12 dry holes to the Rice County part of the Chase-Silica pool. In the Crawford pool, 6 oil wells and 2 dry holes were completed; in the Geneseo-Edwards pool, 30 new oil wells, 5 dry holes, and 1 salt-water disposal well were added and 7 old wells were worked over and made into producing wells. The Welch-Bornholdt pool added 43 new oil wells, 1 salt-water disposal well, and 3 dry holes during the year.

Of the four dry wildcat tests, only the Amerada Petroleum Corporation No. 1 Helen Kottmann test in the NE¼ NE¼ NW¼ sec. 23, T. 20 S., R. 9 W. reported penetrating the Arbuckle dolomite. Pertinent data on the tops logged in drilling these tests are given in Table 42.

New developments in Rice County's secondary recovery activities are given in Table 1.

Oil production statistics are given in Table 56, gas production in Table 57. Locations of Rice County producing areas and dry wildcat tests are shown on Figure 7.

### ROOKS COUNTY (Map Fig. 6)

The 1954 production from 92 pools: oil 7,190,986 barrels, gas none. Wells drilled in 1954: oil 123, dry 117, salt-water disposal 4, total 244 including 11 dry wildcats. New pools discovered 3, combined 1. Secondary recovery projects 1.

Developments during 1954.—Oil production from Rooks County increased about 175,000 barrels, but the number of wells drilled decreased. Three new oil pools were named during the year.

The Allphin Northwest pool was discovered by the Heathman-Seeligson Drilling Company No. 1 H. L. Wait well in sec. 32, T. 10 S., R. 20 W. The Arbuckle dolomite was named the producing zone from depths of 3,736 to 3,742 feet. In the new **Dopita Southeast** pool, discovered by the Murfin Drilling Company on the Fike lease in sec. 5, T. 9 S., R. 17 W., the producing zone is the Lansing-Kansas City group of rocks from depths of 3,335



to 3,340 feet. The Nutsch pool was discovered by the Francis Oil and Gas, Inc. No. 1 Nutsch well in sec. 3, T. 10 S., R. 20 W. The Arbuckle dolomite, from 3,840 to 3,848 feet depth, is the producing zone. Additional pertinent data on the discovery wells of these new pools are given in Table 6.

During 1954, in four old pools in Rooks County the Lansing-Kansas City group of rocks was named as the new producing zone. These pools are the **Dorr South**, **Laura**, **Northampton**, and **Northampton Southeast**. Information on the locations of the discovery wells, the initial potentials, and the thicknesses of the new producing zones are given in Table 7.

During the year, the White pool of Graham County was combined with the Laura pool, which extends into Graham County from Rooks County.

TABLE 43.—Dry wildcat tests drilled in Rooks County during 1954

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
*Morrison Drlg. Co., Inc. No. 1 N. H. Home	NW SE SW 14-6-18W	3,202	3,558	3,575
Isern Drlg. Co. et al. No. 1 C. F. Jones	NE NE NW 27-6-19W	3,296	3,588**	3,618
*Jones, Shelburne & Farmer, Inc. No. 1 Nichols	NE NW SW 19-6-20W	3,498	3,806	3,896
*Jones, Shelburne & Farmer, Inc. No. 1 Attaberry	SE SE NW 22-6-20W	3,434	3,740	3,772
Murfin Drlg. Co. et al. No. 1 R. O. Brown	NW NW SW 5-7-18W	3,142	3,459	3,510
Alkay Oil Co. No. 1 Houston	NE NE NW 12-8-17W	3,058	3,410	3,436
*Powell Drlg. Co. No. 1 Baxa	NW NW SE 23-9-17W	3,272	3,613	3,625
Lohmann-Johnson Drlg. Co., Inc. No. 1 Ida Westhusin	SW NW NW 27-9-17W	3,265	3,646	3,690
J. F. Darby Oil Co. No. 1 Van Dyke	NE NW SE 14-9-18W	3,328	3,628	3,647
*The Veeder Supply & Development Co. No. 1 Garvert	NE NE SE 26-9-18W	3,349	3,646	3,694
*Jones, Shelburne & Farmer, Inc. No. 1 Baldwin	NE NE NE 11-9-20W	3,358	3,655	3,716

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

\*\* Depth to the top of granite, feet.

Routine drilling in the older Rooks County pools added 6 oil wells, 5 dry holes, and 1 salt-water disposal well to the **Dopita** East pool; 11 oil wells and 4 dry holes to the **Dopita**; 12 oil wells and 4 dry holes to the Elm Creek; 9 oil wells and 4 dry holes to the Jelinek; 6 oil wells and 1 dry hole to the Lone Star; 7 oil wells and 2 dry holes to the Lynd; and 14 oil wells, 6 dry holes, 2 salt-water disposal wells, and 1 old well worked over into a producing oil well in the Marcotte.

Although wildcatting in Rooks County declined somewhat from the activity during 1953, several tests were made. Of the 11 dry wildcat tests, only 1, the Isern Drilling Company et al. No. 1 Jones in sec. 27, T. 6 S., R. 19 W., reported penetrating Pre-Cambrian rocks. Marker zones logged in drilling the dry wildcat tests are given in Table 43.

The locations of the dry wildcat tests, their total depths, and the locations of the various Rooks County producing pools are shown on Figure 6. Oil production statistics are given in Table 56. Data on the one secondary recovery project are given in Table 1.

### RUSH COUNTY (Map Fig. 8)

The 1954 production from 11 pools: oil 298,932 barrels, gas 1,668,333 thousand cubic feet (estimated). Wells drilled in 1954: oil 12, gas 2, dry 26, total 40 including 14 dry wildcats. New pools discovered 3.

Developments during 1954.—Both oil and gas production from the Rush County fields showed an appreciable increase over last year, but the total number of new wells declined to 40 from 47 in 1953. Three new pools were discovered and 14 dry wildcat wells were drilled during the year.

Two of the new pools are oil pools, and the third, Ryan East, is a shut-in gas pool. The Imperial Drilling Company, Inc. No. 1 Krug well discovered the Rush Center Northeast pool in July in the SW¼ SW¼ SE¼ sec. 10, T. 18 S., R. 18 W. The new production comes from depths of 3,783 to 3,788 feet in the Arbuckle dolomite. An initial potential of 523 barrels of oil per day was assigned the discovery well. The Webs pool was discovered late in the year by the Republic Natural Gas Company No. 1 Eva Webs "C" well



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in the NE¼ NE¼ NE¼ sec. 16, T. 19 S., R. 20 W. An initial potential of 3,000 barrels of oil per day was assigned the discovery well in a zone of sand in basal Pennsylvanian rocks from depths of 4,202 to 4,212 feet. Arbuckle gas production was discovered in the Tatlock Oil Company No. 1 Peterson well in the SW¼ SW¼ SE¼ sec. 33, T. 19 S., R. 16 W. Production from the Ryan East pool is from depths of 3,648 to 3,651 feet. Additional data on these new discoveries are given in Table 6.

Fourteen widely scattered dry wildcat tests were drilled in Rush County during the year. Pertinent data regarding these tests are given in Table 44. In most of the tests the Arbuckle

TABLE 44.—Dry wildcat tests drilled in Rush County during 1954

-			_	-	
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
*Natl. Assoc. Petro. Co. No. 1 "A" Shade	SE SE NW 5-16-16W	1,004	3,187	3,496	3,657
Great Lakes Carbon Corp. No. 1 Fitzpatrick	NW NW SE 2-16-17W	1,080	3,255	3,559	3,589
Loffland Bros. No. 1 Sherwood	SW SW SE 25-16-17W	1,110	3,282	3,552	3,602
Fleming & Woodman Drlg, Co. et al. No. 1 Holzmeister	NE NE NW 27-16-17W	1,170	3,334	3,600	3,650
*Bay Petro. Corp. et al. No. 1 Dechant	SE SE SE 20-16-18W		3,274	3,573**	3,576
Lee Phillips Oil Co. No. 1 Herrman	NW NW SW 23-16-18W	1,175	3,313	3,621**	3,642
<sup>o</sup> D. R. Lauck Oil Co., Inc. No. 1 Holopirek	SE SE SE 20-18-17W	1,095	3,375	3,744	3,796
Lion Oil Co. No. 1 Snyder	NW NW SE 25-18-20W	1,310	3,574	4,101	4,131
Sohio Petro. Co. et al. No. 1 Webs	NE NE SE 29-18-20W	1,379	3,686	4,608	4,661
*Coppinger Drlg., Inc. No. 1 U. Smith	SW SW SE 18-19-18W	•••••	3,633	4,157	4,200
*Harms-Burt No. 1 Schroeter	SE SE NE 25-19-18W	1,348	3,571	3,939	3,964
*Imperial Drlg. Co., Inc. No. 1 Brannon	NW NW SE 26-19-18W		3,601	4,040	4,090
Virginia Drlg. Co., Inc. No. 1 L. E. Murphy	SE SE SE 12-19-20W		3,716	4,448†	4,475
Aurora Gasoline Co. et al. No. 1 Anderson	SE SE NE 26-19-20W	1,380	3,761	4,502	4,542

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.
\*Depth to the top of granite, feet.
†Depth to the top of the Viola, feet.



dolomite was the objective; however, in some parts of the county it is absent and the basal sands were tested. In the western part of the county the Viola limestone and Simpson group are present above the Arbuckle dolomite.

Routine drilling in the older fields in the county added 5 oil wells, 4 dry holes, and 1 old well worked over into an oil well to the Otis-Albert field; 1 gas well and 1 dry hole to the Reichel field; 3 oil wells and 5 dry holes to the Rush Center field; and 1 oil well to the Ryan field.

Oil production from the various Rush County pools is given in Table 56 and from the gas pools in Table 57. The Rush County pools and dry wildcat tests are shown on Figure 8.

### RUSSELL COUNTY (Map Fig. 9)

The 1954 production from 33 pools: oil 11,195,338 barrels including production from secondary recovery projects, gas 45,876 thousand cubic feet. Wells drilled in 1954: oil 144, gas 2, dry 67, salt-water disposal 7, total 220 including 6 dry wildcats. New pools discovered 1, combined 1, revived 1.

Developments during 1954.—Although drilling activity and total oil production dropped off from the previous year, one new pool was discovered, one pool was revived, and Russell County remained the State's second largest oil producer.

The new pool is the Eulert West discovered by the Carter Oil Company No. 2 O. C. Eulert well in the SW¼ NE¼ sec. 34, T. 11 S., R. 15 W. Production of 64 barrels of oil per day was assigned from Lansing-Kansas City rocks from 2,948 to 2,954 feet depth. The Steinert pool was revived by the Lohmann-Johnson Drilling Company, Inc. well on the Steinert lease in the SE¼ SW¼ sec. 21, T. 15 S., R. 15 W. An initial potential of 10 barrels of oil per day was assigned from the Lansing-Kansas City group from 3,141 to 3,144 feet depth.

During the year enough new wells were drilled between the Atherton and Russell pools to warrant their combination. The field is now known as the Russell field.

The Lansing-Kansas City group and the Arbuckle dolomite were named as new producing zones in the **Heim** field during 1954. In the Shelley-Miller Drilling, Inc. No. 1 Herbel well in



sec. 22, T. 14 S., R. 12 W., the Lansing-Kansas City rocks were rated at 78 barrels of oil per day. The Lewis Mai No. 1 Miller well in the same section was rated at 10 barrels of oil per day from the Arbuckle dolomite.

Routine drilling in old fields added 16 oil wells and 9 dry holes to the Gorham field; 77 oil wells, 22 dry holes, 1 gas well, and 2 salt-water disposal wells to the Hall-Gurney field; 15 oil wells, 5 dry holes, and 1 gas well to the Russell field; and 24 oil wells, 9 dry holes, and 4 salt-water disposal wells to the Trapp field.

Twenty-nine old wells were worked over during the year. Of these 22 were oil wells, 3 were declared dry, and 4 were converted into salt-water disposal wells.

The decline in drilling activity in the county during the year is reflected in only 6 dry wildcats completed. Data on the pertinent marker beds encountered in the drilling of these tests are given in Table 45.

The new and revived pools are described in Table 6. Locations of producing areas and dry wildcat tests are shown on Figure 9. Oil production by pools is given in Table 56, and miscellaneous gas production is reported in Table 57. Data on the secondary recovery projects in the county are given in Table 1.

TABLE 45.—Dry wildcat tests drilled in Russell County during 1954

Location	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
SW SW SW 14-12-15W	2,856	3,198	3,230
NW NW NW 9-13-14W	2,963	3,246	3,250
NW NE SE 17-13-15W	3,034	3,302	3,317
SW SW SE 13-15-11W	2,955		3,325
SE SW NW 17-15-14W	3,081	3,337	3,360
NW NW NW 7-15-15W	3,140	3,438	3,467
	SW SW SW 14-12-15W NW NW NW 9-13-14W NW NE SE 17-13-15W SW SW SE 13-15-11W SE SW NW 17-15-14W NW NW NW	top of LansK.C., feet  SW SW SW 2,856 14-12-15W  NW NW NW NW 2,963 9-13-14W  NW NE SE 3,034 17-13-15W  SW SW SE 2,955 13-15-11W  SE SW NW 3,081 17-15-14W  NW NW NW NW 3,140	Location         top of LansK.C., feet         top of Arbuckle, feet           SW SW SW 14-12-15W         2,856         3,198           NW NW NW NW 2,963         3,246           9-13-14W         3,034         3,302           NW NE SE 17-13-15W         3,034         3,302           SW SW SE 13-15-11W         2,955            SE SW NW 17-15-14W         3,081         3,337           NW NW NW NW 3,140         3,438

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

# SALINE COUNTY (Map Fig. 7)

The 1954 production from 11 pools: oil 1,429,923 barrels. Wells drilled in 1954: oil 16, dry 16, total 32 including 6 dry wildcats.

Developments during 1954.—The total production from Saline County showed a decline of about 87,000 barrels, and drilling activity decreased from 102 wells in 1953 to only 32 in 1954.

Two oil wells and 1 dry hole were completed in the Gypsum Creek field, 1 dry hole in the Bachofer, 1 oil and 2 dry in the Hunter, 1 dry in the Hunter North, 1 dry in the Olsson, 2 oil and 2 dry in the Salemsborg, 2 oil and 1 dry in the Salina, 1 dry in the Swenson, and 9 oil wells in the Smolan.

Arbuckle dolomite was penetrated in four of the six dry wild-cat tests in the county during 1954. The Donald T. Ingling No. 1 Weisgerber test, sec. 2, T. 16 S., R. 1 W., and the Musgrove Petroleum Corporation No. 1 Everhart test, sec. 3, T. 16 S., R. 1 W., were stopped when the Mississippian rocks were penetrated. None of the dry wildcat tests specifically reported shows of oil. Additional data on the dry wildcat tests are given in Table 46.

Oil production by pools is given in Table 56. Locations of oil pools and dry wildcat tests are shown on Figure 7.

TABLE 46.—Dru	wildcat	tests	drilled	in Sa	line (	County o	luring	1954
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Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Mis- sissippian, feet	Depth to top of Arbuckle, feet	Total depth. feet
*Berry & Fick et al. No. 1 Sailors	NE NW SW 14-14-2W	1,958	2,608	3,380	3,400
*C. U. Bay et al. No. 1 R. B. Johnson	NE NE SE 11-14-4W	2,281	2,965	3,789	3,805
*Doley Oil Co. No. 1 Schrader	SW SW NE 7-15-4W	2,390	3,055	3,816	<b>3</b> ,836
*Donald T. Ingling No. 1 Weisgerber	SE NE SE 2-16-1W	2,006	2,651		<b>2,6</b> 71
*Musgrove Petro. Corp. No. 1 Everhart	SW SW SE 3-16-1W	1,963	2,614	••••	<b>2</b> ,680
*S. B. Smith, Jr. No. 1 Blomberg	SE SE NW 22-16-4W	2,390	3,040	3,737	3,767

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



# SCOTT COUNTY (Map Pl. 2)

The 1954 production from 3 pools: oil 48,208 barrels, gas none reported. Wells drilled in 1954; oil 1. New pools discovered 1.

Developments during 1954.—The one well completed in Scott County during 1954 is the discovery well of the Grigston pool. The Kansas Nomenclature Committee designated the Arbuckle dolomite from depths of 5,050 to 5,054 feet depth as the producing zone. A sample log or electric log of the well was not available. According to scout information, drilling from an elevation of 2,942 feet above sea level, the following tops were logged: Ft. Riley limestone, 2,925; Heebner shale, 3,901; Lansing group, 3,940; base of the Kansas City group, 4,308; Marmaton group, 4,340; Mississisppian rocks, 4,555; Viola limestone, 4,968; and Arbuckle dolomite, 5,043 feet depth. The total depth is 5,078 feet. Additional data on the new pool are given in Table 6.

Oil production statistics for Scott County are given in Table 56. The inactive gas area of the **Keystone** pool is described in Table 57. Part of Scott County is shown on Plate 2.

### SEDGWICK COUNTY (Map Fig. 13)

The 1954 production from 32 pools: oil 1,077,915 barrels including production from secondary recovery projects, gas 429,957 thousand cubic feet. Wells drilled in 1954: oil 29, dry 42, salt-water disposal 2, total 73 including 8 dry wildcats. New pools discovered 1, combined 1.

Developments during 1954.—Oil production from Sedgwick County was slightly more than in 1953; gas production declined appreciably. The increase to 73 wells drilled in 1954 was due to the new discovery, the Gladys pool.

The discovery well of the Gladys pool is in the NE¼ SE¼ SW¼ sec. 30, T. 28 S., R. 1 E., about a mile from the southern edge of the Robbins field. The Beardmore Drilling Company completed the 123 barrels of oil per day well in their first test on the Tyson lease in October. Production is from Mississippian rocks, which in the discovery well are from 3,176 to 3,185 feet depth. The good recovery from the discovery well encouraged the rapid development of the field.



During the year, the Kuske North pool was combined with the Kuske pool, in effect reviving the pool which was discovered in 1929 and abandoned in 1946.

Routine drilling added 1 oil well and 1 dry hole in the East-borough North pool; 2 oil wells and 2 dry holes in the Greenwich pool; 16 oil wells, 11 dry holes, and 1 salt-water disposal well in the Kuske pool; and 5 oil wells and 2 dry holes in the Minneha pool.

Depths to tops of significant marker beds encountered in drilling the 8 dry wildcats are listed in Table 47. Of these, 3 reported shows of oil or gas, and all but 2 penetrated Arbuckle dolomite.

Additional data on the discovery well of the Gladys pool are given in Table 6. Data on secondary recovery projects in the county are given in Table 1. Locations of oil and gas pools, new dry wildcat tests, and secondary recovery projects are shown on Figure 13. Oil production is given in Table 56, and gas in Table 57.

TABLE 47.—Dry wildcat tests drilled in Sedgwick County during 1954

Company and farm	Location	Depth to top of K.C., feet	Depth to top of Mis- sissippian, feet	Depth to top of Arbuckle, feet	Total depth. feet
Barnett Drlg., Inc. et al. No. 1 Pelz	SE SE NW 32-28-2W	3,040	3,656	4,207	4,245
Rupp-Ferguson Oil Co. No. 1 Pauly	SE SE SE 26-29-3W	3,055	3,671	4,233	<b>4.26</b> 3
The Texas Co. No. 1 Casner	NW NE NE 33-29-4W	3,310	3,935	4,356**	<b>4,3</b> 83
*Champlin Refg. Co. No. 1 Goering	NE NE SE 3-25-1E	2,571	3,055	3,630	3,650
*J. P. Gaty et al. No. 1 Dotts	NE NW NE 33-27-2E	2,472	2,9 <del>4</del> 0	3,336	3,340
J. P. Gaty No. 2 Bierman	N <sub>2</sub> SE NE 9-28-2E	2,494	2,946	3,312	3,318
*J. P. Gaty No. 1 Bierman	NW SW NW 10-28-2E	2,515	2,982	3,315**	<b>3,33</b> 0
*J. P. Gaty No. 1 Heidrick	E½ NE SW 29-29-2E	2,608	3,115	3,561	3,564

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



<sup>\*\*</sup> Depth to the top of the Simpson, feet.

# SEWARD COUNTY (Map Pl. 2)

The 1954 production from 13 pools: oil 46,068 barrels, gas 26,095,598 thousand cubic feet. Wells drilled in 1954: oil 1, gas 44, dry 9, total 54 including 4 dry wildcats. New pools discovered 3.

Developments during 1954.—Oil and gas production was less during 1954 than during 1953; however 54 wells were drilled during 1954 as compared to 33 during 1953. Three new gas pools were discovered.

The Blue Bell Northwest, a Mississippian gas pool, was discovered in March by the Lansekan Company, Inc. No. 1 Good "B" well in the Cen. NW¼ NW¼ sec. 20, T. 34 S., R. 31 W. Production comes from Chesteran rocks from depths of 5,947 to 5,965 feet. The discovery well was rated at 1.7 million cubic feet of gas per day. Before the well was plugged back to the pay zone, the hole was drilled through the Ste. Genevieve limestone, logged at 6,226 feet, and the St. Louis limestone, logged at 6,395 feet depth. Total depth of the hole was 6,456 feet.

The Holt gas pool discovery during 1954 is especially significant because it indicates gas production from beneath the Hugoton Gas Area, which is limited by definition to gas production from the Chase group of rocks. The producing zone in the Holt pool was designated as the Topeka limestone, the top of which was logged at 3,820 feet depth in the discovery well. The best showing of gas was reported from depths of 4,180 to 4,200 feet, just below the Heebner shale. The discovery well of the new Holt pool was drilled by the Cities Service Oil Company on the Holt lease in the Cen. NW1/4 NE1/4 sec. 28, T. 32 S., R. 34 W. An

TABLE 48.—Dry wildcat tests drilled in Seward County during 1954

Company and farm	Location	Depth to top of LansK.C., feet	Depth to top of Morrowan, feet	Depth to top of Mis- sissippian, feet	Total depth, feet
Vickers Exploration, Ltd. No. 1 Alexander	Cen. SW NE 14-33-32W	4,482	5,668	5,823	6,106
Mid-Continent Petro. Corp. No. 1 Price Davies	Cen. SE NE 23-34-32W	4,573	5,837	6,036	6,250
Armer Drlg. Co., Inc. No. 1 Warden	Cen. NW 25-34-33W	4,500	5,840	5,996	6,146
Aladdin Petro. Corp. No. 1 Colvin	Cen. NE NW 15-35-31W	4,658	6,006	6,306	6,462

initial potential of 27.8 million cubic feet of gas per day was assigned the well. Before being plugged back the discovery well was drilled into Mississippian rocks; the top of the Ste. Genevieve limestone was logged at 6,268 feet depth.

The third new pool is the Wide Awake, discovered by the Panhandle Eastern Pipe Line Company in reworking an old hole in the Cen. N½ NE¼ sec. 4, T. 35 S., R. 34 W. The Toronto limestone from depths of 4,410 to 4,426 feet was named as the producing zone. An initial potential of almost 10 million cubic feet of gas per day was given the discovery well.

Routine development of the Chase group of rocks in the **Hugoton Gas Area** resulted in the completion of 42 additional gas wells and 2 dry holes. Three of the new gas wells were drilled deeper than the Chase group. These are the Northern Pump Company No. 1 Satterfield, sec. 13, T. 31 S., R. 32 W., which logged the Mississippian at 5,470 feet; the Northern Natural Gas Company No. 1 Collingwood, sec. 4, T. 32 S., R. 32 W., which logged the Marmaton at 4,984 feet; and the Northern Natural Gas Company No. 1 G. Jones, sec. 9, T. 32 S., R. 32 W., which logged the Mississippian at 5,649 feet depth.

A considerable number of drill-stem tests were taken on the four dry wildcat tests completed in the county during 1954. Data on the depths to the marker zones encountered during the drilling are given in Table 48.

Additional data on the three new gas pools are given in Table 6. New Seward County wells and dry wildcat tests are shown on Plate 2. Gas production by pools is given in Table 57, and oil production in Table 56. Historical data on the **Hugoton Gas Area** are given in the chapter on natural gas.

# SHAWNEE COUNTY (Map Pl. 1)

Test wells have been drilled from time to time in Shawnee County, but no commercial oil or gas pool has been found. The Geological Survey has records of 29 Shawnee County test wells drilled previous to 1954.

Exploration during 1954.—In April 1954 the Musgrove Petroleum Corporation No. 1 Heiland well, NW¼ NW¼ NW¼ sec. 6, T. 10 S., R. 13 E., was abandoned at a total depth of 3,329



feet. The following tops were reported: Lansing limestone, 1,146; Mississippian limestone, 2,241; Kinderhookian rocks, 2,475; "Hunton" limestone, 2,731; Maguoketa shale, 3,024; Viola limestone, 3,100; Simpson, 3,198; St. Peter sandstone, 3,232; Arbuckle, 3,298; and Pre-Cambrian granite, 3,320 feet. The location of the well is shown on Plate 1.

### SHERIDAN COUNTY (Map Fig. 4)

The 1954 production from 8 pools: oil 381,802 barrels. Wells drilled in 1954: oil 5, dry 11, total 16 including 6 dry wildcat tests.

Developments during 1954.—The wells in Sheridan County's oil-producing pools during 1954 maintained approximately the same amount of production reported for 1953. Twelve fewer attempts at finding new reserves were made in 1954 than in 1953.

The pools to which extension oil wells were added during the year are the Wessel, 1 oil well and 1 dry hole, and the Wessel North, 4 oil wells and 2 dry holes. One old well, the Westpan-Hydrocarbon Company No. 3 Wessel in sec. 27, T. 6 S., R. 29 W., completed as a dry hole in 1953 in the Wessel pool, was reworked this year and recompleted as a 14 barrels of oil per day well.

Two of the dry wildcat tests in Sheridan County during 1954 were deep tests. In the Virginia Drilling Company No. 1 Gulick in sec. 4, T. 8 S., R. 26 W., the Viola limestone was reported at

TABLE 49.-Dry wildcat tests drilled in Sheridan County during 1954

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
Natl. Coop. Ref. Assn. No. 1 Teagarden	NE NW SE 10-7-26W	2,597	3,814	4,326	4,360
*Peel-Hardman Oil Pro- ducers No. 1 Vaughn	SE SE SW 2-7-29W	2,834	2,981	4,202**	4,218
*W. W. Sauvage No. 1 Boggs	NE NE NE 22-7-30W	2,912	3,999	4,542	4,600
Virginia Drlg. Co., Inc. No. 1 Gulick	NE NE SW 4-8-26W	2,567	3,778	4,365	4,613
*Jones, Shelburne & Farmer, Inc. No. 1 Fox	SE SE SW 25-8-26W	2,537	3,839	4,377	4,432
Cities Service Oil Co. No. 1 "B" James	NE NE NW 7-8-28W	2,778	3,937	4,486	4,688

<sup>\*</sup>No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

\*Depth to the base of the Kansas City, feet.

4,494 feet and the Arbuckle dolomite at 4,550 feet. In the Cities Service Oil Company No. 1 James B well in sec. 7, T. 8 S., R. 28 W. the Viola limestone was reported at 4,624 feet and the Arbuckle dolomite at 4,673 feet depth. Data on depths to the tops of other marker beds encountered in drilling the six dry wildcats are given in Table 49.

The locations of the producing areas and dry wildcat tests are shown on Figure 4. Oil production from the various Sheridan County pools is given in Table 56.

#### SMITH COUNTY

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

Exploration during 1954.—Two exploratory wells were drilled in 1954 in the hope of finding an oil pool. One of these tests was drilled on the Bates farm by the Bennett & Roberts Drilling Company in the SW¼ SW¼ NE¼ sec. 21, T. 1 S., R. 15 W. From an elevation of 2,112 feet above sea level this test found the Heebner shale at 3,238, the Lansing group at 3,280, the Marmaton group at 3,535, Mississippian rocks at 3,860, the Viola limestone at 3,904, the Simpson group at 4,104, and the Arbuckle dolomite at 4,150 feet depth. A drill-stem test between the depths of 3,860 and 3,867 feet in the top layers of the Mississippian rocks recovered only water. The hole was abandoned at a total depth of 4,205 feet.

The second test was located on the Harbinger farm 2 miles north of Lebanon in the S½ SE¼ SW¼ sec. 34, T. 2 S., R. 11 W. Drilling from an elevation of 1,907 feet above sea level Charles Lasky found the Lansing group at 2,995, Mississippian rocks at 3,705, the "Hunton" limestone at 3,831, the Viola limestone at 4,010, the Simpson group at 4,168, and the Arbuckle dolomite at 4,202 feet depth. A drill-stem test from 3,705 to 3,720 feet depth recovered only water. The test was abandoned at 4,250 feet depth as a dry hole.

### STAFFORD COUNTY

(Map Fig. 11)

The 1954 production from 149 pools: oil 7,148,225 barrels, gas 1,129,016 thousand cubic feet. Wells drilled in 1954: oil 109, gas 1,



dry 131, salt-water disposal 2, total 243 including 11 dry wildcats. New pools discovered 15, abandoned 1.

Developments during 1954.—The number of wells drilled during 1954 was 243 compared with a total of 400 drilled in 1953. Gas production declined slightly, but oil production increased 4 percent and 15 new oil pools were named.

The new pools are the Brenn, Centerview, Cephas North, Glen, Kennil, Kipp North, Macksville East, Mopac, Radke East, Rattlesnake Southeast, Saterlee, Seevers, Shepherd North, Sutton, and Widener. The Lansing-Kansas City group was named as the producing strata in the Brenn, Cephas North, Glen, Kipp North, Radke East, Rattlesnake Southeast, Seevers, and Sutton pools. In the Saterlee and Shepherd North, the Pennsylvanian basal conglomerate is the producing zone. The Viola limestone is the producing zone in the Macksville East and Mopac pools, and the Arbuckle dolomite in the Centerview, Kennil, and Wide-

TABLE 50.—Dry wildcat tests drilled in Stafford County during 1954

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
*Petroleum, Inc. No. 1 "C" Hamilton	SW SW NE 2-22-11W	3,132	3,444**	3,524	3,552
Natural Gas & Oil Corp. No. 1 Tuggle	SW SW NW 17-22-13W	3,438	3,726**	3,839	3,876
Natural Gas & Oil Corp. & Amerada No. 1 Carr	NE NW SE 19-22-14W	3,538	3,895**	4,021	4,051
*Iron Drlg. Co. No. 1 D. B. McMillan	NE NE NE 31-22-14W	3,550	3,908	4,054	4,100
Heathman-Seeligson Drlg. Co. No. 1 Prescott	NE NE SW 18-23-14W	3,613	3,938	4,075	4,125
Lee Phillips Oil Co. No. 1 Hohner	SW SW SW 31-23-14W	3,674	4,023	4,123	4,160
*Producers Pipe & Supply Co. No. 1 Brown	SE SE NE 35-23-14W	3,618	3,960	4,130	4,155
Natural Gas & Oil Corp. et al. No. 1 Suiter	SE NW SE 7-24-14W	3,684	4,037	4,235	4,265
*Glickman Oil Co. No. 1 McCune	SE SE NE 4-25-12W	3,557	3,900	4,146	4,170
Natl. Coop. Ref. Assn. No. 1 Jenkins	NE NE NE 15-25-12W	3,548	3,924	4,176	4,225
*Hilton Drlg. Co., Inc. No. 1 Wilson	NE NW SE 34-25-13W	3,711	4,100	4,336	4,390

<sup>\*</sup>No electric or radioactivity logs 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.



ner pools. Initial potentials assigned these discovery wells ranged from 14 to 412 barrels of oil per day. The discovery well of the Kennil pool, the Welch & Olsson Oil Company No. 1 Green in sec. 4, T. 23 S., R. 13 W., was carried on the scout reports as a dry hole. No production was reported from the lease. Additional data on the 15 new pools are given in Table 6.

Five old fields added new producing zones and one new pool added an additional producing zone during 1954. The new producing zones are the Lansing-Kansas City group in the Hazel West, Newell, and Oscar South fields, the Simpson group in the Kowalsky Southwest field, and the Viola limestone in the Rose Valley field. The Shepherd North, discovered in 1954, added the Lansing-Kansas City as a producing zone. Additional data on these developments are given in Table 7.

In the continued development of Stafford County's oil fields, 5 oil wells and 1 dry hole were completed in the Chase-Silica field, 18 oil wells and 5 dry holes in the Gates field, 6 oil wells and 2 dry holes in the Mueller field, 5 oil wells in the North Star field, and 5 oil wells and 3 dry holes in the Pundsack field. In the newly discovered Widener pool, 7 oil wells and 2 dry holes were completed during 1954.

The Hart, an Arbuckle dolomite pool discovered in 1949, was abandoned this year; cumulative production was 14,204 barrels of oil.

Production from six Stafford County fields was more than 300,000 barrels of oil each during 1954. They are the Fischer Northwest, Gates, Max, Mueller, Pundsack, and Richardson. Nine of the 16 old wells worked over in the county during the year were made into oil producers, 1 gas, 4 dry, and 2 salt-water disposal wells.

Only 1 of the 11 dry wildcat tests specifically reported shows of oil or gas. This is the National Cooperative Refinery Association No. 1 Jenkins test in sec. 15, T. 25 S., R. 12 W. Tops to important marker beds encountered in drilling these tests are given in Table 50.

Locations of producing areas and dry wildcat tests are shown on Figure 11. Oil production by pools is given in Table 56, gas production in Table 57.



6 3

#### STANTON COUNTY

(Map Pl. 2)

The 1954 production: gas 13,780,190 thousand cubic feet, all from the Hugoton Gas Area. Wells drilled in 1954: gas 25, dry 7, total 32 including 3 dry wildcats. New pools discovered 1.

Developments during 1954.—The J. M. Huber Corporation No. 1 Sparks test in the Cen. NE¼ sec. 34, T. 30 S., R. 42 W., about 10 miles west of the Hugoton Gas Area, resulted in the naming of the new Sparks gas pool, which produces from Morrowan rocks from depths of 5,254 to 5,258 feet. An initial potential of 16 million cubic feet of gas per day was assigned the well. Drilling from an elevation of 3,508 feet above sea level, the following tops were logged: Lansing group, 3,442; Marmaton group, 4,120; Morrowan rocks, 4,902; Ste. Genevieve limestone (Mississippian), 5,343; and St. Louis limestone (Mississippian), 5,470 feet depth. Total depth of the hole is 5,554 feet.

Routine drilling in the development of the Stanton County part of the Hugoton Gas Area added 24 new Chase group gas wells and 4 dry holes. Most of these new wells and dry holes were concentrated along the western edge of the Hugoton Gas Area, approximately through the center of the county in a north south direction. The 1954 gas production from the 230 producing wells was more than 13,780 million cubic feet and brought Stanton County's cumulative production to more than 74,870 million cubic feet of gas.

Three wildcat tests were attempted in the western half of Stanton County during 1954. The J. M. Huber Corporation drilled their rank wildcat test on the Walkemeyer lease in the Cen. NE½ SW½ sec. 22, T. 28 S., R. 42 W. to a total depth of 5,768 feet. Drilling from an elevation of 3,520 feet above sea level the following marker beds were logged: Stone Corral dolomite, 1,660; Topeka limestone, 3,310; Lansing group, 3,804; Morrowan rocks, 5,122; and Mississippian rocks, 5,560 feet depth. Although several drill-stem tests were taken, no shows of oil were reported on the scout ticket.

Another rank wildcat was drilled by the J. M. Huber Corporation on the Kilgore property in the Cen. NE¼ NW¼ sec. 5, T. 30 S., R. 42 W. to a total depth of 5,627 feet before abandonment. From the reported elevation of 3,540 feet above sea level, the



following tops were logged: Stone Corral dolomite, 1,485; Lansing group, 3,464; Morrowan rocks, 4,936; and Mississippian rocks, 5,420 feet depth.

A semi-wildcat test was drilled along the western edge of the Hugoton Gas Area by the United Producing Company on the Littrell lease in the Cen. SW¼ NE¾ sec. 6, T. 30 S., R. 40 W. to a total depth of 3,895 feet. From an elevation of 3,340 feet above sea level, the Topeka limestone was logged at 3,160 and the Lansing group at 3,765 feet depth. No shows of oil were reported.

The new Sparks pool is described in Table 6. Stanton County's new gas wells and dry holes are shown on Plate 2. Gas production, the active area, and the producing zones are listed in Table 57. Historical data on the Hugoton Gas Area are given in the chapter on natural gas.

### STEVENS COUNTY (Map Pl. 2)

The 1954 production: gas 93,253,317 thousand cubic feet, all from the Hugoton Gas Area. Wells drilled in 1954: gas 20.

Developments during 1954.—Twenty new Chase group gas wells were completed in Stevens County during 1954, as compared with only four the previous year. Total gas production from the Hugoton Gas Area, which covers the entire county, declined 10 percent from the high set in 1953.

Of the new holes drilled in the county during the year, the Hugoton Production Company No. 1 Spikes well in the Cen. SE¼ NE¼ sec. 16, T. 31 S., R. 38 W. was drilled below the usual Chase group production of the Hugoton Gas Area. Drilling from an elevation of 3,078 feet above sea level, the following marker beds were reported: Heebner shale, 3,921; Lansing group, 4,011; Morrowan rocks, 5,260; Mississippian rocks, 5,654; Viola limestone, 6,666; Simpson group, 6,752; and Arbuckle dolomite, 6,811 feet depth. The total depth was 7,013 feet. The hole was plugged back to the Chase group and was assigned the lowest initial potential of the 20 new wells drilled in 1954. Another Hugoton Production Company well, the No. 1-10 Keefer in sec. 10, T. 31 S., R. 38 W., was rated as having the highest potential, more than 56 million cubic feet of gas per day.



The 716 Hugoton gas wells in Stevens County accounted for more than 93 billion cubic feet of gas during the year, bringing the cumulative gas production in the county since the discovery of commercial quantities in 1927 to more than 1,267 billion cubic feet.

Stevens County gas production is given in Table 57, and the new wells are shown on Plate 2. Historical data on the **Hugoton** Gas Area are included in the chapter on natural gas.

### SUMNER COUNTY (Map Fig. 13)

The 1954 production from 43 pools: oil 1,894,757 barrels including production from secondary recovery projects, gas 87,417 thousand cubic feet. Wells drilled in 1954: oil 96, dry 45, salt-water disposal 1, total 142 including 14 dry wildcats. New pools discovered 8, combined 1.

Developments during 1954.—All phases of the petroleum industry in Sumner County showed increases during 1954 when compared with 1953. Oil production was up 14 percent, gas production amounted to 87 million cubic feet (none was reported in 1953), and 96 wells were completed as compared to 82 the previous year.

Eight new oil pools were discovered in the county during the year. These are the Ashton, Ashton East, Ashton Southwest, Chicaskia, Gerberding, Murphy Southwest, Padgett West, and South Haven. In the Padgett West pool production is from the "Layton sand," in the Ashton, Ashton Southwest, and Murphy Southwest production is from the "Cleveland sand," and in the Ashton East production is from Mississippian rocks. The new Chicaskia well produces from the Lansing-Kansas City group, and in the Gerberding and South Haven production is from the Simpson group. Before the close of the year the Ashton Southwest was combined with the Ashton field. Data on the locations of the discovery wells, discoverers, thicknesses of producing zones, and initial potentials of these new pools are given in Table 6.

In the Dyal field, the "Cleveland sand" was added as a new producing zone during 1954. The Dyal field was discovered in 1953, with production from the "Bartlesville sand." Additional data on the new "Cleveland" production are given in Table 7.



Routine development in Sumner County added 3 oil wells, 1 old well worked over for an oil producer, and 1 dry hole in the Ashton pool; 5 oil wells in the Bitter Creek pool, 8 oil wells, 7 dry holes, and 1 old well worked over into an oil producer in the Dyal field; 5 oil wells and 1 old well reworked into an oil well in the Murphy Southwest pool; 6 oil wells and 2 dry holes in the South Haven pool; and 10 oil wells, 1 old well worked over for a gas well, and 2 dry holes in the Vernon North field. The big development in the drilling activity of Sumner County was the 41 extension oil wells and only 2 dry holes in the Hilltop field.

Several good shows of oil were reported in the Simpson group in the 14 dry wildcat tests drilled in 1954. Data on the tops to marker beds in these tests are given in Table 51.

TABLE 51.—Dry wildcat tests drilled in Sumner County during 1954

Company and farm	Location	Depth to top of "Stalnaker," feet	Depth to top of Mis- sissippian, feet	Depth to top of Simpson, feet	Total depth. feet
Sun Oil Co. No. 1 Matthews	NE NE NE 5-30-1W	2,575	3,559	3,966	4,077
Sherrod & Apperson No. 1 Parker	NE SE SW 24-30-1W	2,525	3,473	3,880	<b>3,98</b> 5
*Morris Mizel No. 1 Nixon	E <sup>1</sup> <sub>2</sub> NE NW 34-30-1W	2,625	3,575	3,960	4,064
Sun Oil Co. No. 1 Freund	NW NW SW 23-30-3W	2,859	3,792	4,251	4,375
Gulf Oil Corp. No. 1 Alderdice	NE NE NW 21-31-3W	3,050	3,968	4,391	4,510
Champlin Refg. Co. No. 1 Esther Allen	SW NW NW 15-32-2W	2,900	3,867	4,304	4,429
E. H. Adair Oil Co. No. 1 Shobe	NW NW NE 29-33-4W	3,158	4,147	4,564	4,576
Herndon Drlg. Co. No. 1 Smith	SE NE SE 26-34-1W	2,767	3,874	4,236	4,416
Tom Berry No. 1 Mason	NE NE SW 2-34-2W	2,940	4,065	4,498	4,589
Time Petro. Co. No. 1 Clink	SW SW NE 12-34-3W	•••••	4,191	4,629	4,650
Helmerich & Payne, Inc. No. 1 Detrich	NW NW NE 11-34-4W		4,296	4,737	4,782
*Derby Oil Co. No. 1 Foltz	NE SW NE 29-30-1E	2,461	3,397	3,837	3,915
*Beaumont Petro. Co. No. 1 Paxton	NW NW NW 35-30-1E		3,311	3,676	3,726
Salina Drlg. Corp., Inc. No. 1 Canfield	NW NW NE 5-34-2E	2,388	3,448	3,754	3.843

<sup>\*</sup> No electric or radioactivity logs 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 13. Oil production is given in Table 56 and gas production in Table 57. Data on the secondary recovery activity are given in Table 1.

#### THOMAS COUNTY

The 1954 production from 1 pool: oil 4,575 barrels. Wells drilled in 1954: oil 1, dry 6 (all wildcats), total 7.

Developments during 1954.—The one new oil well in Thomas County during 1954 is the discovery well of a new producing zone in the old Mingo field. The Phillips Petroleum Company No. 1 Keller "A" well in the NE¼ SW¼ SW¼ sec. 19, T. 9 S., R. 32 W. produces from the Marmaton group between depths of 4,484 and 4,494 feet. An initial potential of 256 barrels of oil per day was assigned the well. Before plugging back to the Marmaton group the hole was drilled into Mississippian rocks, found dry and logged at 4,680 feet depth. Additional data on this new development are given in Table 7.

Of the six dry wildcat tests drilled in the county during the year, The Derby Oil Company et al. No. 1 Nickel test in the SE¼ SE¼ SE¼ sec. 16, T. 6 S., R. 35 W. reported the best shows of oil. All the tests penetrated at least to the Mississippian rocks. Data on the operators, farms, locations, and depths to significant

TABLE 52.—Dry wildcat tests drilled in Thomas County during 1954

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
The Derby Oil Co. et al. No. 1 Nickel	SE SE SE 16-6-35W	3,241	4,112	4,768	4,973
The Derby Oil Co. et al. No. 1 Hills	SE SE SW 22-7-34W	3,219	4,182	4,854	5,017
The Derby Oil Co. et al. No. 1 Schielke	NW NW NW 17-8-34W	3,242	4,121	4,720	4,931
<sup>e</sup> Mack & Proctor et al. No. 1 Nelson	NE NE NW 19-9-31W	3,040	4,080	4,656	4,778
Bennett & Roberts Drlg. Co. No. 1 Franz	NW NW SW 13-9-33W	3,101	4,090	4,715	4,810
The Derby Oil Co. et al. No. 1 Kistler	SE SE SE 34-9-34W	3,251	4,178	4,804	4,960

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

marker beds encountered in drilling these dry wildcat tests are given in Table 52.

Oil production, the producing zones, and the number of producing wells of the Mingo field are given in Table 56.

### TREGO COUNTY (Map Fig. 10)

The 1954 production from 23 pools: oil 1,027,685 barrels. Wells drilled in 1954: oil 20, dry 33, total 53 including 16 dry wildcats. New pools discovered 2, combined 1.

Developments during 1954.—Total oil production from Trego County during 1954 was slightly less than that of 1953. The number of wells drilled declined from 79 in 1953 to 53 this year.

Two new pools were named by the Kansas Nomenclature Committee in Trego County. The Hixson East pool was discovered by the Stanolind Oil and Gas Company No. 1 Scott well in the NW¼ SW¼ SW¼ sec. 16, T. 11 S., R. 22 W. An initial potential of 39 barrels of oil per day was given the Arbuckle dolomite in September; however the well was worked over in December and declared dry and abandoned. Production of 1,578 barrels of oil was reported from the pool during 1954.

The Spaulding South pool was discovered by the Magnolia Petroleum Company No. 1 Spaulding well in the SW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> SE<sup>1</sup>/<sub>4</sub> sec. 1, T. 11 S., R. 21 W. in May. An initial potential of 5 barrels of oil per day from the Lansing-Kansas City group from 3,538 to 3,542 feet depth was given the discovery well.

The Braden Drilling Company et al. No. 1 Coulson well in the NW¼ SW¼ SE¼ sec. 11, T. 15 S., R. 22 W. was not named by the Nomenclature Committee as a discovery well of a new pool, although it is a considerable distance from old production and 729 barrels of oil were reported produced from the well during 1954. The production is carried in Table 56 under "Coulson."

During the year, the **Diebolt** pool of Graham County and the **Wakeeney Northwest** pool of Trego County were combined; the pool, which now extends across the county line, is called **Diebolt**. Nine extension oil wells and one dry hole were completed in the Trego County portion of **Diebolt** during 1954.



The Amerada Petroleum Corporation No. 1 Wanamaker, an old well worked over during 1954 in sec. 27, T. 14 S., R. 21 W., was named the discovery well of Lansing-Kansas City production in the old Groff field. Additional data on the development are given in Table 7.

Routine development in Trego County fields includes the addition of 3 oil wells, 2 oil wells resulting from reworking old holes, and 2 dry holes in the Groff field; 1 oil well and 2 dry

TABLE 53.—Dry wildcat tests drilled in Trego County during 1954

Company and farm	Location	Surface eleva- tion, feet	Depth to top of Lansing, feet	Depth to top of Arbuckle, feet	Total depth, feet
Continental Oil Co. et al. No. 1 E. W. Larue	SE SE NW 12-11-22W	2,158	3,440	3,858	3,910
The Veeder Supply & Development Co. et al. No. 1. Stieben	SE SE NW 34-11-22W	2,336	3,623	4,041	4,075
Herman Geo. Kaiser et al. No. 1 Howat	NW NW SW 1-11-23W	2,268	3,543	3,986	4,040
*Walters Drlg. Co. No. 1 Walker	SW SW SW 6-11-23W	2,296	3,660	4,372	4,395
*Virginia Drlg. Co., Inc. No. 1 Schimkowitsch	NW NW NW 36-11-25W	2,529	3,887	4,650	4,695
*Berry & Fick No. 1 Hillman	SW SW NW 7-12-21W	2,320	3,626	4,011	4,035
Stanolind Oil & Gas Co. No. 1 F. B. Rinker	SE NE NW 6-12-22W	2,427	3,686	4,169	4,170
*Iron Drlg. Co. No. 1 Glass	NE SW SW 8-13-21W	2,228	3,557	3937**	4,010
Continental Oil Co. No. 1 Caskey	SW SE SE 14-13-22W	2,281	3,651	4,359	4,389
Branine-Gould et al. No. 1 Schemm	NE SE NE 30-13-22W	2,386	3,776	4,435	4,515
*Gabbert-Jones Drlg. Co. No. 1 Kastner	SW SW NW 6-14-21W	2,304	3,677	4,107**	4,156
Schafer Drlg. Co. No. 1 Nicholson	NW NW NW 15-14-21W	2,197	3,559	3,967	4,020
*Heathman-Seeligson Drlg. Co. No. 1 Unrein	SW SW NE 34-15-21W	2,337	3,748	4,329†	4,338
Sohio Petro. Co. No. 1 Stowe	NE NE SW 11-15-24W	2,328	3,689	4,580	4,700
*Howard Lipp & Powell No. 1 Young	NW NE NE 26-15-24W	2,329	3,678	······	4,326

<sup>\*</sup>No electric or radioactivity logs 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.
†Depth to the top of the Viola, feet.

Company and farm	Location	Surface eleva- tion, feet	Depth to top of LansK.C., feet	Depth to top of "Hunton," feet	Depth to top of Viola, feet	Total depth. feet
Musgrove Petro. Corp. No. 1 Palenske	SE SW SE 20-12-10E	1,081	1,272	2,727	3,046	3,280
Musgrove Petro. Corp. No. 1 Zeckser	NE NW SE 23-12-10E	1,150	1,296	2,804	3,099	<b>3</b> ,330
Musgrove Petro. Corp. No. 1 Langley	NE NE NE 13-13-10E	1,207	1,363	2,895	3,128	<b>3</b> ,336
Sohio Petro. Co. No. 1 Ashburn	SE NE SE 29-14-10E	1,450	1,602	3,143	3,343	3,492

holes in the **Ogallah** field; 1 oil well in the **Sunny Slope** field; and 2 oil wells each in the Walz and White Southwest fields.

During the year, 16 wildcat tests were drilled more than 1½ miles from existing production. Few shows of oil were reported. Depths to the tops of some marker beds, locations of the holes, and allied data for these tests are given in Table 53.

Additional data on the two new Trego County oil pools are given in Table 6. Oil production by pools is given in Table 56. The oil pools and dry wildcat tests are shown on Figure 10.

### WABAUNSEE COUNTY (Map Pl. 1)

The 1954 production from 5 fields: oil 182,015 barrels. Wells drilled in 1954 (reported): 4 dry wildcats.

Developments during 1954.—Reported oil production in Wabaunsee County in 1954 was 67 percent less than in 1953. As in previous years the Davis Ranch continued to be the county's most prolific field but production dropped from 470,556 barrels in 1953 to 110,195 barrels this year.

Four dry wildcat wells were drilled in 1954. They are listed in Table 54, and their locations are shown on Plate 1.

Oil production statistics are listed in Table 56. Locations of areas from which oil was produced in 1954 are shown on Plate 1.

### 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 1954.—During 1954, a dry wildcat test was drilled in Wallace County by the States Oil Company on the Hill lease in the Cen. NW¼ SE¼ sec. 36, T. 11 S., R. 42 W., about 10 miles northwest of Sharon Springs. The exploratory hole was drilled from an elevation of 3,811 feet above sea level. The following tops of marker beds were logged: Lansing group, 4,260; Morrowan rocks, 5,004; and Mississippian rocks, 5,136 feet depth. The total depth was 5,230 feet. No shows of oil or gas were reported.

### WICHITA COUNTY (Map Pl. 2)

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

Exploration during 1954.—Only one rank wildcat was drilled in Wichita County during 1954. Rooney, Siegfried, and Thomas drilled on the Smith lease in the NW¼ NW¼ NE¼ sec. 22, T. 20 S., R. 36 W., about a mile northwest of Lydia. From an elevation of 3,235 feet above sea level the following tops of marker beds were logged by the Kansas Sample Log Service: Dakota formation, 560; Stone Corral dolomite, 2,295; Ft. Riley limestone, 2,948; Lansing group, 4,009; and Mississippian rocks 5,090 feet depth. No shows of oil or gas were reported and the test was abandoned at a total depth of 5,126 feet. The location of the test is shown on Plate 2.

### WILSON COUNTY (Map Pl. 1)

The 1954 production: oil from 53 areas in 14 fields 186,514 barrels, gas (estimated) 175,517 thousand cubic feet. Wells drilled in 1954 (estimated): oil 192, gas (reported) 2, dry 96, total 290 including 5 (reported) dry wildcats.

Developments during 1954.—Reported oil production in Wilson County was nearly 165 percent greater than in 1953. Drilling was active and new wells were added to several fields. Hydraulic fracturing added materially to the county's total production.

Five dry wildcat wells were reported in Wilson County (Table 55).



Depth to top of Mis-Total sissippian, depth. Company and farm Location feet feet 1,506 1.524 V. C. Strasson Cen. N1 NE NE No. 1 Huffman 36-27-13E Ward A. McGinnis NW NE SW 1,394 1,418 No. 1 Ed Herman 3-27-14E Ward A. McGinnis 1,525 NW NE NW (?) 1,476 No. 1 Bollinger 5-27-14E 997 C. L. Siebel SW NE NW No. 1 Marie Anderson 4-27-17E H. and P. Drlg. Co. Cen. SE SW 1.365 1.386 No. 1 Stoehr 5-28-14E

TABLE 55.—Dry wildcat tests drilled in Wilson County during 1954

Oil production statistics from Wilson County fields are listed in Table 56 and gas in Table 57. Locations of areas that produced oil in 1954 are shown on Plate 1.

### WOODSON COUNTY (Map Pl. 1)

The 1954 production: oil from 35 areas in 20 fields 755,411 barrels including production from secondary recovery projects, gas 51,158 thousand cubic feet. Wells drilled in 1954 (estimated): oil 128, gas 1, dry 52, input 32, total 212 including 2 (reported) dry wildcats.

Developments during 1954.—Oil production in Woodson County was nearly 10 percent more in 1954 than in 1953.

Two wildcat wells were reported in Woodson County. The Barnett and Schroeder et al. No. 1 Eades test in the SE¼ SE¼ SE¼ sec. 7, T. 25 S., R. 15 E., was abandoned at a total depth of 1,575 feet. The L. Moline et al. No. 1 Neil Toedman well, SE¼ NE¼ NE¼ sec. 21, T. 26 S., R. 16 E., was drilled to 1,305 feet.

Reported field wells include: 1 dry hole in the Batesville field; 2 oil wells and 1 dry hole in the Big Sandy field; 1 oil well in the Buffalo field; 2 oil wells in the Hoagland field; 1 dry hole and 2 input wells in the Leroy field; 2 oil wells and 1 dry hole in the Perry field; 3 oil wells and 1 dry hole in the Piqua field; 3 oil wells and 1 dry hole in the Quincy field; 2 oil wells in the Rose field; 1 oil well in the Stephenson field; 5 oil wells and 1 dry hole in the Toronto; 5 oil wells in the Virgil North field; 1 dry hole in the Weide field; 13 oil wells and 3 dry holes in the Winterscheid field. Data on secondary recovery operations in Woodson County

are listed in Table 1. Oil production is listed in Table 56 and gas in Table 57. Locations of areas from which oil was produced in 1954, of water-flood projects, and of the reported dry wildcat wells are shown on Plate 1.

## WYANDOTTE COUNTY (Map Pl. 1)

The 1954 production: gas 4,244 thousand cubic feet.

Developments during 1954.—No drilling was reported in Wyandotte county during 1954. The reported gas production is from the Roberts-Maywood field which extends into Leavenworth County. The county's gas production is listed in Table 57.

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TABLE 56 .- Oil production in Kansas during 1954

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, feet
		ALLE	N COUNTY	•			
Bronson-Xenia*	17-25-21E	1,900	238,904		157	"Bartlesville	e'' 700
Colony West* (1922)	15-23-18E	980			54	"Squirrel"	820
<u>a</u>			3,553				
b Davis-Bronson*	04 017	700	1,762		60	"Bartlesville	e'' 720
2	24-21E	700	460		60	Dartiesviii	B. 720
- b			18,092				
c			536				
Elsmore Shoestring (1908)	5-26-21E	1,600	72,042		100	"Bartlesville	e'' 650
Elamore West (1911)	12-26-20E	800			22	"Bartlesville	e'' 775
•			5,182				
b			236				
c d			516 30				
Humboldt-Chanute*	26-18 <b>E</b>	13,600	30		696	"Bartlesville	e'' 850
2	20 102	10,000	4,802		•••		
b			411				
c			177,081				
d			137,039				
e			4,428				
f Iola	24-18E		20,458		174	"Bartlesville	e'' 850
2	24-18E	2,400	105,087		114	Darmesam	8. 990
<b>b</b>		240	6,863				
c		10	41				
d		160	1,233				
e		20	345				
f		10	78				
g		.160	671				
h i		40 20	235 28				
j		10	4,539				
Moran (1903)	25-20E	1,280	4,000		38	"Bartlesville	e" 820
a (2000)		2,200	11,550		•		
b			351				
c			2,178				
d			642				
Neosho Falls* (1928)	29-23-17E	640	F 040		11	"Squirrel"	950 1 200
a b			5,948 72			Mississippis	M. 1,200
Seibert	5-26-20 <b>E</b>	480	12		7	"Bartlesville	e" 680
8	J _J _J_	-00	1,901		•		
b			1,070				
Miscellaneous			26				
Total Allen County		22,790	828,390	16,855,637 recorded	1,319		
		ANDER	SON COUNTY				
Bush City Shoestring (1921)	28-20-21E	2,750			866	"Squirrel"	620
			482,099				

1,461

TABLE 56 .- Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells		Depth to pro- ducing ne, fee
Centerville* (1920)	10-21-22E	640	106,795		68	"Squirrel"	480
						"Bartlesville"	
Colony-Welda (1916)	4-23-19E	1,460	r #00		193	"Weiser"	600
a b			5,782			"Squirrel"	780
c c			2,663 62,543				
d			02, 543 77				
Colony West* (1922)	15-23-18E	1,000	29,70 <b>7</b>		66	"Squirrel"	82
Garnett Shoestring (1904)	32-20-20E	1,280	20,		182	"Squirrel"	70
a.	02 20 202	2,200	13, 165			'Garnett'	80
b			2,461				
c			114				
Greeley		160	604		5		
Kincaid (1921)	10-23-21E	840			76	"Bartlesville"	75
a			18,793				
b			16,778				
Northcott		20	74		1		
Selma (1929)	9-22-21E	320	3,476		19	"Bartlesville"	70
Miscellaneous			56				
Total Anderson County		8,470	746,648	16,310,737 recorded	1,476		
		BARBI	R COUNTY				
Amber Creek (1952)	36-30-12W	40	310	1,167	1	Mississippian	
Amber Mills (1951)	15-30-12W		no report	none		Viola	4,48
Boggs (1946)	17-33-12W	1,200	353,669	2,339,056	33	Simpson	4,80
Clara* (1948)	36-29-14W	40	9,506	64,004	1	Simpson	4,47
Deerhead (1943)	22-32-15W	400	82, 198	799,038	10	Viola Viola	4,95 5,17
DeGeer (1948) Donald (1946)	2-33-15 <b>W</b> 33-31-15 <b>W</b>	640 80	8, 237 366	747,476	17 2		
Gerlane (1950)	29-33-11W		ined with Rho	ļ, 8 <b>92</b>	2	Mississippian	4,03
Gudeman (1954)	10-35-10W	40	1,086	1,086	1	Viola	5,15
Lake City (1937)	7-31-13W	180	2,783	307,865	î	Viola	4,43
Danie City (1991)	. 01 1011	100	2,100	501,000	•	Simpson	4.53
						Arbuckle	4,60
Medicine Lodge (1937)	13-33-13 <b>₩</b>	300	2,864	48,567	7	Misener	4,84
Medicine Lodge North (1954)	25-32-13W	80	1,662	1,662	2	Mississippian	
Nippawalla (1951)	13-33-12W	40	91	91	1	'Douglas sd.'	
Rhodes (1949)	15-33-11 <b>W</b>	4,200	538,163	1,432,318	80	Mississippian	4,55
			4,442		1	Viola	4,80
Rhodes East (1954)	23-33-11 <b>W</b>	40	620	620	1	Mississippian	4,57
Rhodes North (1954)	4-33-11 <b>W</b>		ined with Rho				
Roundup (1953)	28-33-11 <b>W</b>	Comb	ined with Rho	des			
Salt Fork (1954)	11-35-15 <b>W</b>	40	1,143	1,143	1	Mississippian	
Skinner (1943)	29-31-14 <b>W</b>	2,000	79,790	1,821,390	19	Viola	4,62
						Simpson	4,42
Stumph (1952)	7-32-14W	120	19,577	40,443	3	Simpson .	4,90
Sun City (1941)	35-30-15W	640	18,714	1,546,360	13	LansK.C.	4,34
Turkey Creek (1943)	20-30-15 <b>W</b>	40	789	55,138	1	LansK.C.	4,34
Turkey Creek North (1952)	17-30-15W	40	9 402	7 507	1	Simpson Been consi	4,43
Turkey Creek North (1952)	32-31-11W	1,300	3,493	7,527	29	Penn.congl.	4,35
Whelan (1934)	25-21-11 M	1,300	241,054	3,040,175	48	CIEC	~, ა≎

Whelan Southwest (1954) Pools or fields abandoned	11-32-12W	40	1,687	1,687 3,270	1	<b>M</b> ississippiar	4,229
Total Barber County		11,500	1,372,244	12,304,717	224		
		BARTO	N COUNTY				
Ainsworth South (1937)	10-1 <b>7-13W</b>	1,900	168,128	4,075,307	60	LansK.C.	3, 17
Alefs (1952)	14-19-14W	100	6,535	42,455	2	Arbuckle LansK.C.	3,39
						Arbuckle	3,47
Ameh (1951)	19-18-11 <b>W</b>	80	4,010	36,899	2	LansK.C.	3,10
Ames (1943)	22-18-11 <b>W</b>	1,000	112,219	1,534,668	32	LansK.C.	3,04
1 N	0 10 1177	00			_	Arbuckle	3,34
Ames Northwest (1947)	9-18-11 <b>W</b>	80	6,554	37,514	2	LansK.C. Arbuckle	3,10 3,31
Anton (1950)	28-1 <b>9-11W</b>	700	127,000	240 502	16	LansK.C.	
Miles (1930)	20-19-11W	790	67,107	340,583	9	Arbuckle	3, 21 3, 34
Ash Creek* (1947)	31-20-15W	80	465	471,716	2	Arbuckle	3,78
Axman (1949)	19-17-14W	120	11,021	122,886	3	Arbuckle	3,40
Barrett (1943)	36-16-14W	800	20,048	202,056	8	LansK.C.	3, 35
(1010)	30-10-14W	000	20,040	202,000		Arbuckle	3,46
Bart-Staff* (1951)	4-21-14W	500	113,069	364,205	13	LansK.C.	0, 10
(2002)		000	110,000	001,200	20	Arbuckle	3,57
Batchman (1950)	19-20-12W	120	8,394	44,503	3	Arbuckle	3,45
Beaver (1934)	16-16-12 <b>W</b>	2,200	142,945	3,683,626	50	Oread	2,88
,,		-,	,	•,•••,•==	•	Toronto	2,93
						Arbuckle	3,34
						Reagan	3, 33
Beaver North* (1937)	4-16-12W	400	22,841	675,875	9	Arbuckle	3,31
Beaver South (1945)	27-16-12W	1,500	74,551	692,413	25	"800y"	•
			-	•		Arbuckle	3,35
Behrens (1944)	6-20-15 <b>W</b>	900	21,230	589,449	18	Arbuckle	3,71
Bergtal (1941)	22-20-15W		no report	2,364		Arbuckle	
Bergtal South (1951)	27-20-15W		no report	108		Arbuckle	3,67
Bernard (1950)	10-19-11 <b>W</b>	320	32, 123	223,407	13	Shawnee	2,80
						LansK.C.	3,22
						Arbuckle	
Bieberle (1952)	4-19-11W		oined with St.				
Bissel Point (1954)	10-19-13 <b>W</b>	40	860	860	1	LansK.C.	3, 27
Blood Creek (1950)	9-18-13 <b>W</b>		no report	2,077		LansK.C.	3,07
Bloomer* (1936)	36-17-11 <b>₩</b>	1,200	269,907	11,114,626	63	LansK.C.	3,04
DI (10.40)	4 40 4477				_	Arbuckle	3, 25
Boyd (1942)	4-18-14W	3,900	32,786	6,429,651	7	LansK.C.	3, 17
			694,769		116	Arbuckle	3,43
Buckhee (1949)	14-20-12W	40	2,571	00 000	1	Pre-Cambria Arbuckle	дз, зт. 3, 35
	23-20-12W	40	2,571 667	20,209 667	1	Arbuckie	3, 37
Buckbee South (1953) Buckbee Southwest (1952)	23-20-12W 15-20-12W	500	70,637	103,903	11	Arbuckie	3, 37
Capitol View (1950)	9-17-14W	40	2,036	14,373	1	LansK.C.	3, 23
Carroll (1944)	21-17-14W	2,400	322,876	2,471,154	60	LansK.C.	3, 10
	51-11-14W	2,400	322, 610	2,411,104	00	Arbuckle	3, 35
Carroll North (1954)	17-17-14W	40	1,742	1,742	1	Arbuckle	3,45
Carroll Southwest (1947)	32-17-14W	80	3,691	55,704	4	LansK. C.	3, 19
Chase-Silica* (1931)	32-19-9 <b>W</b>	16,850	1,695,880	56,029,986	412	LansK.C.	2,95
14002/	10 0W	, 000	2,000,000	55,550,550	- 4 -	Arbuckle	3, 32
	12-19-12 <b>W</b>	2,480	365,862	2,602,301	113	LansK.C.	3, 15
Chevenne View (1949)			,	_, 50_, 551			
Cheyenne View (1949)	15 15 15 1	•				Arbuckle	3.390
Cheyenne View (1949)	15 15-15**	·				Arbuckle Penn. basal	3,390
Cheyenne View (1949)	15 15 15 1	·				Arbuckle Penn. basal congl.	3,39



TABLE 56 .- Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 production, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing zone, fee
Clarence (1953)	35-19-15W	40	2,414	2,414	1	LansK.C	. 3,291 3,534
Clarence Northwest (1954)	25 10 1517	40	9,614	9,614	1	Reagan Pre-Cambr	
Davidson* (1930)	35-19-15W 4-16-11W	80	4,495	249,556	2	LansK. C.	
Davidson (1990)	1 10 11.	00	1,100	210,000	-	"Sooy"	3,317
						Arbuckle	3, 314
Dundee (1945)	29-20-14W		no runs	13,745	2	Arbuckle	3,507
Eberhardt (1935)	14-19-11W	320	13,564	450, 170	7	LansK.C	. 3, 194
Ellinwood North (1937)	33-19-11 <b>W</b>	80	10,824	100,430	2	LansK.C	
						Arbuckle	3, 32
Esfeld (1947)	15-16-11 <b>W</b>		no report	7,875		Arbuckle	3, 34
Ess (1953)	13-19-14W	80	11,807	18,413	2	LansK. C	
Fleske (1953)	3-20-15W	40	1,063	2,878	1	LansK. C	
Fort Zarah (1950)	30-19-12 <b>W</b>	3,200	270,931	2,849,701	45	LansK.C	
Down Mount Mount (1051)	10 10 1077	000	440,877	01 550	69	Arbuckle	3,384 3,20
Fort Zarah North (1951)	19-19-12W	200 120	11,909	81,779	3 3	LansK.C	
Frank (1952)	7-19-12 <b>W</b> 6-20-12 <b>W</b>	120	4,469	13,033 295	3	LansK.C.	
Fransen (1949) Great Bend Airport (1952)	26-19-14W	760	no report 70,182	292,460	16		
Great Beist Airport (1952)	20-13-14W	700	10, 102	252, 400	10	Arbuckle	3,47
Great Bend East (1951)	34-19-13W		no report	1,153		LansK.C.	
Great Bend Southwest (1952)	25-19-14W	180	13, 194	68,279	4	LansK.C.	
Great Bend West (1951)	23-19-14W	120	12,847	64,173	3	LansK.C.	
Great Bend Townsite (1953)	21-19-13W	300	42, 191	81,614	6	LansK.C.	
<b>(</b>			36,993		6	Arbuckle	3,44
Hagan (1938)	20-20-11W	120	11,031	444,727	5	Arbuckle	3, 32
Hall-Gurney* (1931)	30-14-13W	600	231,422	1,602,948	15	Shawnee	
· · ·						LansK. C. "Sooy" Arbuckle	3,06
Hammeke (1950)	17-19-11W	160	10,039	89,848	4	LansK. C.	3,0%
Hammeke Southeast (1950)	17-19-11W	120	7,547	65,443	3	LansK.C.	3,08
Hammer (1940)	35-1 <b>9-12W</b>	1,000	281,782	1,107,655	34	LansK. C	
Hamman Namah (1040)	00 10 1011	O	denied milde Ob			Arbuckle	3, 34
Hammer North (1949) Hampel (1953)	23-19-12 <b>W</b> 34-17-15 <b>W</b>	Comb	ined with Che no report	none		Arbuckle	3,54
Harrison (1942)	18-20-13W		no report	4, 160		Arbuckle	3, 52
Hawkins (1952)	3-19-13W	200	26,124	47,906	5		•
12"12"	0-10-1011	200	20,121	41,000	u	Arbuckle	3.39
Hawkins Northwest (1953)	33-18-13 <b>W</b>	40	2,689	3,782	1	Arbuckle	3, 42
Heizer (1935)	16-19-14W	40	1,893	50,579	ī	LansK. C	
Heizer Northeast (1952)	15-19-14W	40	403	6,905	1	LansK. C	. 3,35
Heizer Southwest (1952)	21-19-14W	160	20,421	23,701	4	LansK.C	. 3,37
						Arbuckie	3,55
Hiss (1936)	31-20-1 <b>3W</b>	320	49,129	671,418	8	LeasK. C.	3,27
Hiss East (1952)	33-20-13W	80	15,680	36,392	2	LansK. C	
						Arbuckle	3,54
Hiss Northeast (1953)	29-20-13 <b>W</b>	80	27,413	36,634	2	LansK. C	
Hiss South (1950)	31-20-13W	120	18, 159	80,794	3	Arbuckle	3,54
Hiss Southeast (1948)	32-20-13 <b>W</b>	320	13,092	151,004	8	LansK. C	. 3,41
mas bouneast (1940)						A -base lel c	2 -4
Hoisington (1938)	21-17-13 <b>W</b>	640	74,362	1,402,034	35	Arbuckle LansK. C	3,54 . 3,22

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Hoioington East (1954)	23-17-13W	120	15,768	15,768	3	Arbuckle	3,338
Hoisington Southwest (1954)	20-17-13W		no report	none		Arbuckle	3,363
Homestead (1948)	22-18-13W		no report	12,720		Arbuckle	3,310
James (1954)	20-19-12W	40	4,081	4,081	1	LansK.C.	3,278
Jettie (1954)	27-20-14W	40	3,943	3,943	1	Simpson	3,534
Klepper (1951)	2-19-11W	640	23,019	122,580	8	LansK.C.	3,220
Klug (1946)	28-17-13W	80	2,709	43,985	2	Arbuckle	3,414
Klug North (1948)	27-17-13W	120	16,806	120,972	3	Arbuckle	3,377
Koopman (1953)	23-19-13W	40	10,53 <b>0</b>	13,523	1	LansK.C.	3,220
						Arbuckle	3,398
Kowalsky* (1941)	32-20-11W	1,400	204,509	1,134,663	37	LansK.C.	3,185
Forth Dr (4000)	10 45 4411	00 100	4 600 400			Arbuckle	3,378
Kraft-Prusa* (1937)	10-17-11W	26,100	4,608,168	75,716,044	787	Shawnee	2,885
						Douglas	2,997
						LansK.C.	3,160
						Arbuckle	3,281 3,310
						Reagan Gorham	3,335
						Pre-Cambria	
Kraft-Prusa Northeast (1941)	36-16-11W	260	20,083	361,197	7	LansK.C.	3,250
			,	,		Arbuckle	3,351
Kramp (1952)	7-19-11W	320	46,172	86,503	7	LansK.C.	3,243
			11,393	•	2	Arbuckle	3,351
Lake Barton (1948)	21-18-13W		no report	6,861		Arbuckle	3,372
Lanterman (1934)	15-19-11 <b>W</b>	900	18,428	939,868	12	LansK.C.	3,109
						Arbuckle	3,235
Larkin (1951)	10-17-14W	200	14,292	89,416	5	LansK.C.	3,280
Leoville (1950)	7-17-14W	700	143,977	640,159	24	LansK.C.	3,267
• • • • • • •						Arbuckle	3,464
Liberty (1952)	23-20-14W	40	2,420	6,833	1	LansK.C.	3,341
Mary Ida* (1950)	31-18-10 <b>W</b>	400	73,576	321,587	11	LansK.C.	3,033
Mary Ide North (1050)	05 10 1177	40	0.100	5 000		Arbuckle	3,272
Mary Ida North (1952)	25-18-11W	40	2,122	5,293	1	Arbuckle	3,304
McCauley (1949) Meadowside (1949)	34-17-13W	360	no report	16,733	2	LansK.C. LansK.C.	3,276 3,079
wearowatre (1949)	24-18-11W	300	13, 195 33, 313	198, 326	9	Arbuckle	3,075
Merten Northeast (1946)	36-18-15W	40	416	17,637	1	Arbuckle	3,494
Merten Southeast (1949)	12-19-15W	40	1,565	26,438	1	Reagan	3,567
Moses (1953)	13-20-14W	40	3, 153	3,478	1	LansK.C.	3,322
Odin (1948)	3-17-12W	100	44,537	166,436	9	Arbuckle	3,321
Otis-Albert* (1935)	30-18-15W	7,400	379,483	5,052,311	119	Reagan	3,601
Pawnee Rock* (1936)	13-20-16W	400	5,948	221,354	4	Arbuckle	3,832
Pawnee Rock East (1941)	17-20-15W		no runs	26,408	1	Arbuckle	3,814
Peach (1952)	25-16-14W		no runs	1,810	1	LansK.C.	3,373
Pendergast (1953)	27-19-15W	40	2,498	4,888	1	LansK.C.	3, 397
_						Arbuckle	<b>3,59</b> 6
Prairie View (1950)	20-19-11W	360	46,445	250,281	8	LansK.C.	3,080
Pritchard (1944)	34-20-14W	1,600	33,931	2,302,221	7	LansK.C.	3,253
			17,289		2	Marmaton	3,625
Bullahand Gardhaand (1958)	0 01 1457	100	169,022	01 404	26	Arbuckle	3,455
Pritchard Southeast* (1953)	2-21-14W	120 160	27,314	31,404	3 4	Arbuckle LansK.C.	3,472
Putnam (1951)	7-17-13W	80	9, <b>4</b> 83 8, 3 <b>29</b>	58,032 33,514		LansK.C.	3,286 3,225
Putnam West (1951) Red Brick (1953)	1-17-14W 23-19-1 <b>3W</b>	ov	no report	33,514	-	LansK.C.	3,240
Redwing (1950)	31-17-12W	320	28,668	148,054	g	LansK.C.	3,083
1200/	J. 2. 20W	020	23,000	_10,001	•	Arbuckle	3,335
Redwing South (1952)	6-18-12W	40	2,303	8,686	1	Arbuckle	3,325
Reif South (1950)	31-16-12W	80	4,676	30,717		LansK.C.	
Rick* (1936)	1-19-11W	900	45,171	1,091,940		LansK.C.	3,106
						Arbuckle	3,355
Roesler* (1943)	14-18-11W	1,400	228,361	832,642	30	Arbuckle	<b>3,2</b> 91



TABLE 56 .- Oil production in Kansas during 1954, continued

year of discovery	of dis- covery well	acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, fee
Rolling Green (1948)	36-20-13W		no runs	16,333	1	LansK.C.	3,257
Rolling Green East (1949)	30-20-12W		no report	7,955		Arbuckle	3,491
Rowland (1949)	32-17-13W	40	956	10,560	1	Arbuckle	3,323
Rusco (1950)	8-19-12W		no report	7,582		Arbuckle	3,417
St. Peter (1944)	5-19-11 <b>W</b>	1,200	268, 30 <b>9</b>	483,720	34	LansK.C.	3, 121
					_	Arbuckle	3,387
Sandford (1951)	25-17-14W	120 800	6,721	34,186	3	Arbuckle	3,375
Sandrock (1951)	21-20-13W	40	94,816	190,136	13		3,412 3,262
Sandrock Southeast (1954) Silica South* (1955)	34-20-13W 24-20-11W	3,000	313 1,086,223	313	1	LansK.C. LansK.C.	3,202
Sinca South (1955)	24-20-11W	3,000	1,000,223	23,626,612	143	Arbuckle	3,268
South Bend (1954)	9-20-13W	40	464	464	1		
Sunflower (1949)	8-17-12W		no report	1,969	_	Arbuckle	3,376
Sunnyside (1953)	33-20-11W		no report	none		LansK.C.	3,186
Sunny Valley (1949)	7-20-12W	160	16,471	297,776	5	LansK.C.	3,230
Sunny Valley Northeast (1954)	6-20-12W	160	25,584	25,584	6	Arbuckle	3,422
Sunny Valley Southwest (1954)	23-20-13W	40	817	817	1	LansK.C.	3, 336
Trapp* (1936)	23-15-14W	12,860	2,221,451	49,444,571	400	Shawnee	2,889
						Dodge	2,966
						LansK.C.	3,062
						Arbuckle	3,252
Underwood (1950)	15-17-13 <b>W</b>	80	948	9,904	2		3, 173
•• • • • • • • • • • • • • • • • • • • •					_	Arbuckle	3,342
Unruh (1945)	24-20-15W	460	23,963	186,098	9	Arbuckle	3, 341
Walnut Creek (1952)	8-19-13W	40	1,077	5,522	1	LansK.C.	3,347
Wearne (1951)	4-20-12W	100	no runs	6,126	1 3	Arbuckle	3,384
Weikert (1953)	36-18-12W	120	17,125	29,382	3 11	LansK.C. LansK.C.	3,169 3,106
Werner-Robl (1951)	30-19-11 <b>W</b>	1,500	45, 152	181,587	11	Arbuckle	3,364
Workman (1944)	33-20-12W	200	63,986	126,221	8	Arbuckle	3,407
Zimmer (1953)	28-19-15W	200	no report	none	·	Arbuckle	3,631
Pools or fields abandoned	-0 10 10		ше герегі	155,557		545.45	2,
Total Barton County		113,830	16,353,520	267, 139, 672	3,183		
		BOURE	ON COUNTY				
Bronson-Xenia*	17-25-21E				46	"Bartlesville	·" 665
a a	11 20 212	320	458			Dan debiline	, ,
b		640	8,774				
c		640	5,710				
Davis-Bronson*	23-21E		-,		50	"Bartlesville	" 560
a		320	3,455				
b		10	59				
c		640	18,491				
Hepler* (1917)	27-22E				26	"Bartlesville	"
8.		640	23,877				
b Total Bourbon County		$\frac{80}{3,290}$	$\frac{1,558}{62,382}$	798, 354	122		
Total Doil Doll County		0, 200	02,002	recorded	166		
		BROV	VN COUNTY				
Livengood (1944)	3-1-15E	40	2,196	86,320		"Hunton"	



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		BUTLE	R COUNTY			
Allen-Robison (1943)	1-26-3E	640	34,850		33	Mississippian 2,700
Augusta (1914)	21-28-4E		,	38,137,049	188	Lansing 1,700
a		40	1,683			Kansas City 2,000
b		5,800	474,308			Marmaton 2,200
						Ordovician 2,445
			440.000			Arbuckle 2,600
Augusta North (1914)	28-27-4E	1,280	140,308	14,816,798	68	Lansing 1,650
						Kansas City 1,950 Ordovician 2,380
						Arbuckle 2,410
Bare (1952)	31-28-5E	160	329	2,657	1	"Bartlesville" 2,778
Bausinger (1929)	24-27-3E	40	2,881	ŕ	2	"Wilcox" 3,050
Benton (1925)	26-3E				1	Miss."chat" 2,965
2		40	1,840			
<b>b</b>		40	1,773			
Blankenship* (1921)	26-8E			2,917,628	110	"Bartlesville" 2,650
a		1,100	553,237			
b c		40 1 <b>6</b> 0	742			
Brandt-Sensenbaugh (1925)	22-28-7E	100	7,902	1,886,749	35	Miss."chat" 2,692
a	22-20-1E	1,280	42,947	1,000,745	33	MISS. CHAL 2,032
b		120	4,408			
Brickley (1951)	2-27-7E	320	13,598	82,432	6	"Bartlesville" 2,636
Brickley Southwest (1952)	3-27-7E	160	1,493	6,776	2	"Bartlesville" 2,699
Butwick* (1949)	7-26-3E	320	5,523	84,458	6	Mississippian 2,860
Butwick Northeast (1949)	7-26-3E		no report	4,269		Miss. "chat" 2,820
Combe* (1947)	5-30-5E	320	8,961		5	"Bartlesville" 2,820
						Mississippian 2,850
Combs Northeast (1948)	27-29-5E		no report	26,087	3	"Bartlesville" 2,810
DeMoss (1934)	8-28-7E	500	18,529		21	"Bartlesville" 2,650
Di (1040)	10.05.65	40	1 501	10 000		"Burgess" 2,680
Dixon (1946)	12-27-6E	40	1,521	12,800	1	Kansas City 2,160 Mississippian
Douglass (1916)	21-29-4E	400	6,844		9	• • •
Sougrass (1910)	21-20-4E	100	0,011			Ordovician 3,000
Eckel (1940)	7-27-7E	400	1,876	61,477	3	LansK.C. 2,190
Edgecomb (1951)	9-25-3E	160	3,587	12,830	2	Mississippian 2,759
Edmonds		20	432			
Elbing* (1918)	18-23-4E				81	Kansas City 2, 120
2		500	34,932			Mississippian 2,400
b		640	<b>376,330</b>			Viola 2,530
C TILL TO A COSTON		160	916	00 051		
Elbing East (1950) El Dorado (1915)	27-23-4E	160	3,562	28,951 219,058,974	1 025	LansK.C. 1,799 Lansing 1,700
El Dorado (1915)	29-25-5E	21,000	3,833,188	219,030,914	1,020	Lansing 1,700 Kansas City 2,000
						Viola 2,500
						Simpson 2,510
						Arbuckle 2,550
Ferrell (1939)	28-28-8E	640	132,717	1,369,191	35	Mississippian 2,647
Four Mile Creek (1951)	5-28-3E	320	30,717	154,780	9	Simpson 3,069
Fox-Bush (1917)	24-29-5E	4,500	544,896	3,550,909	93	"Bartlesville" 2,730
Fox-Bush West (1953)	15-29-5E	320	14,591	14,591	3	"Bartlesville" 2,837
Garden (1925)	32-26-6E	320	12,880		26	"Bartlesville" 2,760
Guyot (1948)	5-29-5E	100	no report	11,890		"Bartlesville" 2,800
Hannah 1 336)	29-8E	160 Comi	3,512	21,131 wden-McSween	2	Kansas City 2,120
Hartenbower (1950) Hartenbower South (1951)	16-29-6E 16-29-6E			wden-McSween		
Haverhill (1927)	34-27-5E	750	43,706	4,431,444	-y 55	"Bartlesville" 2,700
Hazlett	24-5E	1,600	160,215	1,232,568	81	Mississippian 2,480
		-,			_	. , , , , , , , , , , , , , , , , , , ,



TABLE 56.—Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depti to pro- ducing one, fee
Hickory Creek (1946)	11-28-5E	320	34, 291	913,814	25	"Bartlesville Mississippia	
Joseph (1947)	18-24-5E	10	135	4,364	1	Miss. "chat"	
Keighley (1925)	22-27-7E	800	29,731	4,504	15	"Bartlesville	
Meigmey (1020)	22 21 12	000	20,101			Simpson	3,14
Kramer-Stern (1926)	3-28-6E	1,750	220, 399		69	LansK.C.	-,
		•	•			Simpson	3,020
						Arbuckle	3,04
Leon (1922)	19-27-6E	640	32, 296	2,516,852	23	Miss. "chat" "Bartlesville	,,,
					_	Viola	3,05
Long (1949)	15-26-7E	160	2,577	17,358	2	Mississippia	
Long Northeast (1953)	11-26-7E	160	3, 396	3, 396	2	Mississippia	
Lucas (1946)	6-27-8E	480	11,211	401 500	5	"Bartlesville	7. 2,65 3,16
McCullough (1929) Mt. Tabor (1953)	1-28-6E 36-29-4E	640	no report 57,828	491,566 59,796	11	"Wilcox" "Bartlesville	
Muddy Creek (1950)	13, 29-4E	950	175,759	412,122	31	"Bartlesville	
Murdock (1952)	23-25-3E	200	no report	2,105	31	Mississippia	
Parsley (1949)	3-26-3E	160	9,535	102,911	6	Mississippia	
Pettit (1926)	17-28-6E		no report	102,011	•	"Wilcox"	3,19
Pierce (1926)	28-25-4E	640	76,621		32	Miss. "chat"	•
Pierce Northwest (1954)	21-25-4E	320	19,056	19,056	2	Mississippia	
Pierce West (1951)	20-25-4E	40	3,990	20,948	3	Mississippia	
Potwin (1917)	31-24-4E	3,200	181,864	8,060,708	123	Kansas City Mississippia	2,550 n 2,660
Reynolds-Schaffer (1922)	9-27-6E	3,200	164,970		77	Kansas City	2, 37
-						Mississippia	n 2,78
						Viola	3, 14
Rombold (1949)	4-26-3 <b>E</b>	160	5,688	35,160	2	Mississippia	
Salter (1946)	23-28-3E	480	90,830	1,265,895	24	Simpson	3,000
Semisch (1947)	4-29-6E			wden-McSween			
Seward (1926)	27-27-7E	320	16,766	1,105,084	13	"Bartlesville	
Shinn (1946)	19- <b>29</b> -8E			599,510	13	Mississippia	2,76
<u>.</u>		40	2,662				
b Smock-Sluss (1917)	2-27-5E	160	51,099		57	"Bartlesville	
a	2-21-3E	1,800	74,875		31	Viola	3.000
b		40	1,103			VIOLE	3,00
c		320	37,168				
Snowden-McSweeney (1930)	34-28-6E	1,800	524,548		93	LansK. C.	2,06
, ,,		-,	0,0			"Peru"	2,40
						"Bartlesville	" 2, 51
						Mississippiar	2,53
Steinhoff (1926)	28-29-6E	160	1,314		2	Mississippia	
Towanda (1948)	5-26-4E	320	286,181	1,680,740	34	Mississippia	2,40
						Viola	2,46
Whitewater (1949)	32-25-4E	480	36,062	302,603	13	Viola	2,62
Whitewater North (1951)	29-25-4E		no report	6,135		Viola	2,70
Womack (1947)	19-28-6E		no report			"Bartlesville	
Young (1920)	27-26-7E				45	Kansas City Mississippian	2,19 2,65
<b>a</b>		950	67,027				
b Total Butlan County		480	17,109	007 007 500	0. 400		
Total Butler County		65,430	8,757,870	397, 205, 760 recorded	3,432		

CHASE COUNTY

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Atyeo* (1925) Bazaar (1951)	30-21-10E 36-20-8E	40	6,299 no report		2	"Bartlesville" LansK. C.	2,250 1,823
Teeter* (1920)	16-23-9E	640	26,684		21	"Bartlesville"	
Total Chase County	10-23-32	680	32,983	237,823	$\frac{21}{23}$	Daruesville	2,500
		555	02,000	recorded			
		CHAUTAU	JQUA COUNTY				
Borroum (1926)	20-34-9E	160	3,236		6	Marmaton	1,780
Brown-Sturgis	33-11E		no report				
Elgin	34-10E				218	"Peru"	1,520
8		900	8,610				
b		10	414				
c d		900	23,483				
		640	7,031				
e Frazier	20 105	640	10,465			H.D	
a a	33-13E	10	205		5	"Peru"	1,520
<b>.</b> b		20	438				
c		160	3,465				
Hale-Inge* (1907)	32-12E	100	3, 403		49	"Peru"	1,160
1	32-12E	320	2,201		40	reiu	1,100
<u>-</u> b		1,280	24,770				
Hoover	32-13E	1,200	206		1		
Hylton	32-9E	•	no report		•		
Kingston (1926)	18-32-11E	160	594		2	Miss. "chat"	1.850
<b>C</b> (3525)	10 02 112				-	Arbuckle	2,176
Landon-Floyd (1936)	23-32-10E	640	18,249		27	Mississippian	
Leniton	33-10E	40	980		2		-,
Lowe	34-10E	10	307		1		
McAllister (1925)	28-32-10E	80	7,866		5		
McGlasson (1947)	11-33-9E		no report				
Malone	18-32-10E	20	737		1	Ordovician	2,340
Niotaze	34-13E				43	"Redd"	690
1		120	1,363			"Peru"	825
<b>b</b>		900	11,075				
Oliver (1935)	32-11 <b>E</b>	900	14,407		18		
Peru-Sedan (1900)	34-11E				1,900	"Peru"	1,200
<b>A</b>		480	20,327			<b>M</b> ississippian	2,000
b		640	34,242				
C .		20	379				
d		4,350	82,919				
e '		11,500	401,428				
1		900	38,350				
g h		1,600	44,730				
i		80	1,337				
4		320	7,390				

80

80

160

20

80

640

400

80

160

120

32-13E

34-9E

2,700

938

674

214

670

558

542

4,891

1,360

2,115

132,501

27,909



2

"Peru"

Mississippian 2,100

1,670

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells		Depth to pro- ducing ne, feet
Wayside-Havana* (1904)	34-13E				21	"Wayside"	575
<b>a</b>		20	462			"Weiser"	700
b		240	5,140			"Bartlesville"	
Wiggam	34-32-10E	80	2,936		6	"Weiser"	1,500
Miscellaneous			489		1		
Total Chautauqua County		32,670	952,603	44,898,295 recorded	2,309		
		CHEYEN	NE COUNTY				
Judy (1951)	26-1-39 <b>W</b>		no report	none		Marmaton	4,497
		CLAR	K COUNTY				
Ashland (1951)	35-32-23W	160	16,218	62,619	3	LansK.C.	4,673
						Viola	6,526
Harper Ranch (1953)	9-34-21W	3,600	119,096	119,096	20	Morrowan	5,437
McKinney* (1950)	2-34-26W	100	656	1,360	2	Mississippian	
Morrison Northeast (1954) Total Clark County	10-32-21 <b>W</b>	3,860	no report 135,970	none 183,075	25	Morrowan	5,193
		CLAY	COUNTY				
Wakefield (1951)	21-9-4E		no report	none		Mississippian	
Wakefield Northeast (1951)	15-9-4E		no report	none		Mississippian	1,793
		COFFE	Y COUNTY				
Dunaway* (1922)	34-22-13E	600	24, 817		19	"Burgess" Mississippian Ordovician	1,850 1,878 2,200
Evans	23-15E	40	254		2	Ordovicial	-,
Finnerty (1953)	12-21-13E	80	21,236		4	"Burgess"	1,728
"Lawrence"		20	537		1		
Leroy (1905)	35-22-16E				102		
<b>a</b> .		320	4,826				
b		640	59,946				
c		900	18,073				
d		160	7,565				
Leroy North	22-16 <b>E</b>				11		
a L		320	15,620				
b "Parmely"		160	1,219				
Van Noy (1917)	7-23-15E	120 900	1,126 8,308		3 25	"Peru"	1,170
						Mississippian	1,540
Virgil North* (1920)	22-23-13E	200	36,459		76	"Bartlesville" Mississippian	1,838
Winterscheid* (1920)	23-14E	480	13,391		18	"Bartlesville" Mississippian	
Miscellaneous			795		6		
Total Coffey County		4,940	214, 172	1,596,701 recorded	267		



## COMANCHE COUNTY

Robbins Ranch (1953)	23-31-16W	100	264	264	1	Mississippian 4,915
		COWLE	Y COUNTY			
Arkansas City Southwest (1954)		20	402	402	1	"Hoover" 1,981
Arkansas City West (1952)	23-34-3 <b>E</b>	40	6,836	20,445	4	"Bartlesville" 3, 291
Bergkamp (1952)	6-35-4E	480	71,461	275,595	16	"Bartlesville" 3, 202
Bergkamp Northwest (1952)	6-35-4E		no report	619		"Bartlesville" 3, 208
Biddle (1922)	7-32-5 <b>E</b>				14	Kansas City 2,000
a		120	5,644			"Stalnaker" 2,300
b		120	5,248			
Bogner (1952)	24-31-5E		no report	1,450		Mississippian 2,999
Box (1948)	28-30-7E	240	19,137	182,552	11	Mississippian 2,840
Brown (1922)	13,31-7E		no report	246,000	•	Kansas City • 2,100
Bruce (1950)	9-30-4E	40	4,681	35,617	2	Arbuckle 3,306
Burden (1926)	31-31-6E	640	22,924	000 100	32	"Bartlesville" 2,900
Burden East (1953)	33-31-6E	580	241,599	303,126	27	"Layton" 2,194
Cabin Valley (1952)	31-33-6E	640	108,793	146,414	20	"Layton" 2,188
Canfield (1952)	13-34-3E	900	53,828	150,308	17	"Layton" 2,651 "Bartlesville" 3,375
						Lans K. C. 2,839
Cedarvale (1953)	9-34-8E	80	838	1,654	1	Mississippian 2,365
Centennial (1953)	12-33-3E	80	1.518	3,531	1	"Bartlesville" 3, 267
Centennial North (1953)	1-33-3E	160	4,793	5,130	2	"Bartlesville" 3, 256
Church (1954)	13-31-6E	160	4,479	4,479	2	Mississippian 2,935
Clark (1914)	6-31-4E	320	34,242	1,110	9	"Bartlesville" 2,840
Clover	31-7E	80	1,219	20,574	2	Kansas City 2,200
	01 12	00	1,210	20,011	_	Mississippian 2,800
Combs* (1947)	5-30-5E	320	25,475	382,346	6	"Bartlesville" 2,823
,,			-,	•		Mississippian 2,850
Copeland (1952)	5-35-4E		no report	117		Mississippian 3,211
Couch (1937)	13-30-5E	1,200	87,150	2,030,836	54	"Bartlesville" 2,800
Countryman (1925)	4-33-7E	640	10,142		11	"Layton" 1,950
-						Mississippian 2,870
David (1935)	35-30-4E			2,249,140	102	"Bartlesville" 2,900
a		1,400	567,399			Arbuckle 3,463
Ъ		40	1,289			
Deichman (1941)	24-31-4E	640	20,307	20,307	29	"Bartlesville" 2,900
						Mississippian 3,000
Dexter (1914)	33-6 <b>E</b>		no report			Mississippian 2,750
Doane (1947)	36-33-6E		no report	12,420		Mississippian 2,878
						Arbuckle 3,140
Dutch Creek (1952)	35-31-4E		no report	486		"Bartlesville" 2,924
Eastman (1924)	5-31-6E	640	42,040		26	"Bartlesville" 2,890
Elrod	4-32-5E	120	5,267		1	"Layton" 2,411 "Bartlesville" 3,285
Enterprise (1948)	35-33-3E	160	no report 7,597	29,334	3	"Bartlesville" 3, 335
Enterprise Northeast (1952)	35-33-3E 3-34-3E	80	1,510	2,998	3	"Bartlesville" 3,360
Enterprise Southwest (1953)	12-32-6E	160	5,095	5,095	3	"Layton" 2,190
Estes (1954) Falls City (1916)	35-7E	100	no report	1,272,687		"Layton" 2,000
Ferguson Northwest (1950)	16-30-8E	240	6,134	25,109	3	Kansas City 2,200
Ferguson West (1934)	21-30-8E	40	725	30,100	3	Kansas City 2,180
Frog Hollow (1937)	20-32-5E	640	122,706	4,515,256	45	"Bartlesville" 3,000
Frog Hollow East (1941)	15-32-5E	320	10,760	278,677	6	"Bartlesville" 3,000
Geuda Springs	5-34-3E	400	189,574	998,444	57	"Bartlesville" 3,300
			• -	•		Miss. "chat" 3,345
						"Cleveland" 2,984
Gibson (1941)	29-34-3E	1,650	507,140	1,472,091	82	"Bartlesville" 3,350
-						Mississippian 3,400
						Simpson 3,774
						Arbuckle 3,780



Pool or field name and	Location	Area,	1954 pro-	Cumulative	No.	Producing	Deptl
year of discovery	of dis-	acres	duction,	production	pro-	zone	to pro-
	covery		bbls.	to end of	ducing		ducing
	well			1954, bbls.	wells	1	cone, fee
Graham (1924)	3-33-3E	500	8,028	2,804,266	9	"Layton"	2,55
			-,	-,,		Arbuckle	3,51
Grand Summit* (1926)	4-31-8E	20	865		1	Kansas City	2,000
Grouse Creek (1951)	16-30-7E	20	1,529	6,071	1	Mississippi	an 2,89
Harvey (1952)	23-34-3E	1,600	347,186	850,915	80	"Layton"	2,57
						"Bartlesvill	
Henderson (1942)	26-32-3E	80	648	133, 245	2	Kansas City	
						Arbuckle	3,41
Hittle (1926)	28-31-4E	900	150, 304	9,317,950	39	Kansas City	
Hittle North (1954)	15-31-4E	Comb	ined with Day	ri d		Arbuckle	3, 28
Jarvis	13-31-4E 13-33-5E	Comi	no report	/Iu			
McKay (1951)	13-33-3E 17-35-4E	640	63,834	288,663	19	"Bartlesvill	ور و ۱۱
Mansur (1949)	25-31-6E	320	6,759	80,647	6	"Layton"	2,17
Millett (1945)?	25-31-6E 31-34-3E	20	214	00,041	1	Layun	2,11
Murphy* (1933)	7-35-3E	640	85,853		29	"Bartlesvill	e" 3.45
marphy (1500)	1-00 02	0.0	00,000			Miss. "chat	
Nigger Creek (1951)	22-34-3E	80	1,321	5,43 <b>3</b>	2	"Bartlesvill	
Nitche (1954)	24-32-6E	•	no report	none	_	"Layton"	2,20
Otto (1927)	25-34-6E		no repert		6	Miss. "chat	
a		40	1,966				
b		80	4,663				
"Priest"	7-33-6E		no report	98			
Quarry (1954)	28-34-5E	240	4,544	4,544	2	"Cleveland"	2,68
Rahn (1939)	13-34-5E	640	210,091	1,671,228	45	"Bartlesvill	e" 2,90
Rahn Northeast (1949)	27-33-6E	80	6,871	64,449	5	"Bartlesvill	e" 2,90
Rahn Southwest (1943)	28-34-5E	20	801	4,591	2	"Bartlesvill	e" 3,01
Rainbow Bend (1923)	20-33-3E	1,600	233,914	16, 154, 246	102	"Burgess"	3,20
Rainbow Bend Northeast (1945)	15-33-3E	120	8,085	49,369	4	"Bartlesvill	e" 3, 21
Rainbow Bend Southwest (1954)	31-33-3E	80	1,087	1,087	1	Mississippi	an 3,35
Rainbow Bend West*	19-33-3E	160	32,994		8	"Burgess"	3,20
						Arbuckle	3,55
Rock (1923)	15-30-4E	2,000	338,239	3,961,455	70	"Bartlesvil	
Rock North (1937)	3-30-4E	160	27,147	184,009	6	"Bartlesvill	
School Creek (1947)	15-32-7E	40	1,458	27,677	2	"Bartlesvill	
School Creek North (1953)	10-32-7E	320	81,253	81,253	14	"Layton"	2,11
Seacat (1944)	26-33-4E	160	10,926	38,621	5	Mississippi	
Silver Creek (1953)	12-32-5E	160	11,011	13,860	6	"Bartlesvill	
Slick-Carson* (1924)	19-32-3E	240	48,955	3,647,456	18	"Layton"	2,60
						"Bartlesvill	
G 113 (1018)						Arbuckle	3,45
Smith (1917)	31-3E	160	4,688		2	"Bartlesvill	
State (1926)	15-32-4E	750	40,684		13	"Layton"	2,40 3,30
Stayton (1949)	32-32-4E	640	22,224	109,920	11	Arbuckie "Bartlesvill	-
Stayton South (1953)	5-33-4E	160	12,256	20,457	2	"Bartlesvil	
Thurlow (1927)	8-33-4E	160	9,796	20, 301	9	Simpson	3,50
Trees (1935)	19-30-4E	640	39,622		21	"Bartlesvill	
Turner (1937)	30-32-6E	40	3, 239	287,701	2	"Layton"	2,23
Turner North (1948)	18-32-6E	20	no report	469	-	"Layton"	2, 30
Turner West (1952)	25-32-5E	20	1,612	5,795	1	Mississippi	an 3.05
Udall	30-3E	160	24,960	0,.50	4	Arbuckle	2,85
Walnut Bend	11-34-4E	40	3,273		3		-,



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Weathered (1935)	28-31-3E	640	40,041	2,775,974	20	"Stalnaker" LansK.C. Mississippian	
Winfield (1914)	32-5 <b>E</b>	2,000	245,095		82	Arbuckle Admire "Peacock" "Layton" "Bartlesville" Arbuckle	3,250 600 1,400 2,300 3,050 3,300
Winfield South (1945) Miscellaneous	1-33-4E	320	27,710 99	55,607	9 1	"Hoover"	1,400
Total Cowley County		30,080	4,363,797	78,825,053 recorded	1,257		
		CRAWF	ORD COUNTY				
Fair Oak Hepler* (1917)	33-28-22E 27-22E	640	6,008		14 5	"Bartlesville" "Bartlesville"	
<b>a</b>		10	57				
b		160	256		_		
"Houston" McCune (1929)	3-31-22E 30-22E	160	3,042		9 236	"Bartlesville"	,
2	*******	640	10,207				
b		2,000	23,804				
"Steimel"	35-29-21E	40	214		1		
St. Paul-Walnut*	28-21E	480	1,790		5	"Bartlesville"	425
Walnut Southeast	28-22E				49	"Bartlesville"	
1		1,200	9,378				
b		120	1,012				
c		80	1,231				
d		80	473				
Miscellaneous			544		4		
Total Crawford County		5,610	58,016	665,023 recorded	323		
		DECAT	UR COUNTY				
Adell Northwest (1952)	34-5-27W	640	115,897	334,220	13	LansK.C.	3,664
Feely (1952)	2-5-27W	200	31,721	76,019	5	LansK.C.	3,590
Hardesty (1952)	22-5-27W	560	43,593	103,353	6	LansK.C.	3,642
Jennings (1951)	25-4-27W	860	91,009	182,026	16	Wabaunsee	3,156
						LansK.C.	3,478
Monaghan (1952)	15-2-27W	120	18,963	24,355	3	LansK.C.	3,514
Pollnow (1953)	4-3-29W	40	9,128	15,308	1	LansK.C.	3,734
Pollnow Northwest (1954)	31-2-29W		no report	none		LansK.C.	3,772
Pollnow West (1953)	5-3-29W	160	37,737	38,683	4	LansK.C.	3,744
Total Decatur County		2,580	348,048	773,964	48		
		DICKIN	SON COUNTY				
Ash Grove (1954)	5-15-1 <b>E</b>	160	7,377	7,413	4	Mississippian	2,569
Bonaccord (1943)	30-14-1E	40	1,471	36,452	5	"Burgess"	2,483
Lost Springs*	16-4E	720	86,948		22	Miss. "chat"	2,300
Lost Springs North (1945)	22-16-4E	40	2,736	102,733	11	Miss. "chat"	2,300
Lost Springs Northeast (1947)	26-16-4E	160	7,074	25,241	19	Miss. "chat"	2,300
Total Dickinson County		1,120	105,606	904,265 recorded	61		

	TABLE 56.—Oil	productio	n in Kansas du	ring 1954, contir	nued		
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, feet
		DOUGL	AS COUNTY				
Baldwin* (1919)	12-15-20E				18	"Squirrel"	800
а		120	771				
b		200	12,977		_		
Total Douglas County		320	13,748		18		
		EDWAR	DS COUNTY				
Bradbridge (1948)	2-24-16 <b>W</b>	120	15,315	94,842		Arbuckle	4,020
Embry (1953)	23-24-16W	80	6,202	9,393		LansK.C.	3,789
Enlow (1953)	9-24-16W	280	56,492	<b>59</b> , 305		LansK.C.	3,736
Sturgeon (1954)	33-26-18W	40	1,340	1,340		Viola	4,721
Pools or fields abandoned				102,496			
Total Edwards County		520	79,349	267,376	12		
		ELK	COUNTY				
Bush-Denton (1920)	4-30-9E	900	25,239		30	"Stalnaker"	1,060
						"Peru"	2,135
						"Burgess"	.2,300
"Clubine"	30-10E	40	2,706		3		
Collyer (1924)	30-30-11E	160	8,223		9	Kansas City	1,286
						Fort Scott	1,518
Dory	18-30-9E	120	1,751		1	Mississippian	
Dunkleberger (1920)	34-29-10E	480	65,629		18	Kansas City Mississippian	1,300
Elk City .	31-13E	240	895		2	wrooteethier	1,5.0
Ferguson East	23-30-8E	20	840		ī	Ordovician	2,900
Fleming (1950)	8-29-9E	20	384		ī	Abruckle	2,656
Grand Summit*	3-31-8E	240	7,367		4	Kansas City	2,000
Hale-Inge* (1907)	31-12E		.,		10	"Peru"	1,160
8.		20	144				
b		20	770				
c		480	4,292				
d		320	2,922				
"Kinzey"	31-13 <b>E</b>	240	727		1		
Kipfer	29-13E		2,000		2		
Logsden	31-9E	80	1,086		2		
Longton	31-12E	160	5,879		6		
Longton North	29-12E	160	6 <b>94</b>		1		
Love	30-9E	160	2,340		2	Mississippian	
Moline (1928)	9-31-10E		no report			"Burgess"	2,000
Name Albania	00 -0=	000	01 000			Mississippian	
New Albany	29-13E	900	21,887		14	"Wayside"	560
"Newbecker"	31-9E	20	555		2		
Oak Valley	31-13E	160	no report		2		
"Perkins" Porter (1923)	1-30-9E 29-8E	160 <b>24</b> 0	2,153 58,536		2 5	Kansas City	2,050
101001 (1880)	29-02	270	JO, JJU		ð	Arbuckle	3,000
Rettig	31-10E	40	4,874		7		
Schrader (1928)	12-31-8E	480	31,101		4	Kansas City	1,520
Severy* (1922)	8-28-11E	10	253		1	Kansas City	1,200
Starr (1937)	12-31-9E	120	2,677		1	Mississippian	2,330



Walker (1927)	5-31-10E	80	1,102		1	Kansas City	1,550
Webb (1925)	23-31-10E	640	29,961		62	Mississippian Kansas City	2,225 1,300
						Fort Scott Mississippian	
Miscellaneous			971		4	Arbuckle	2,300
Total Elk County		6,550	285,036	14,346,802 recorded	196		
		ELLI	8 COUNTY				
Antonino (1947)	27-14-19W	160	11,450	108,753	4	Arbuckle	3,712
						Basal sand- stone	3,726
Antonino Townsite (1949)	2-15-19W		no runs	32,470	1	Abruckle	3,697
Antonino Townsite East (1952)	1-15-19W		no report	14,074		LansK.C.	3,344
			•	·		Arbuckle	3,634
Beeching (1943)	34-15-16W	500	11,789	251,954	6	LansK.C.	3,156
Bemis-Shutts (1935)	16-11-17W	15,300	3,372,377	78,344,152	566	Arbuckle	3,380
Bielman (1952)	24-15-18W	200	19,733	36,726	6	Arbuckle	3,496
Blue Hill (1937)	14-12-16W	1,200	113,748	2,248,777	29	Topeka	3,030
						LansK.C.	3,072
						Gorham	3,348
Para teams					_	Arbuckle	3,360
Braun (1953)	34-13-16W	120	21,182	23,035	3	Penn. congl.	3,459
Brungardt* (1952)	35-10-17W	200	31,466	86,638	7	LansK.C.	3, 194
Burnett* (1937)	1-11-18W	7,000	2,043,639	45,935,679	275	Shawnee	2,967
						LansK.C. Simpson	3,093
						Arbuckle	3,603 3,570
Burnett Northwest* (1946)	3-11-18W	800	229,166	2,670,753	28	LansK.C.	3,450
(2010)	• 11 10		220,200	2,0.0,100		Arbuckle	3,617
Burnett Southwest (1946)	22-11-18W	1,600	462,603	4,366,671	81	Shawnee	3,074
• •			·			LansK.C.	3,207
						Simpson	3,582
						Arbuckle	3,633
Canyons (1948)	11-12-17W		no runs	8,566	1	LansK.C.	3,361
Catharine (1936)	3-13-17W	400	48,101	891,371	7	LansK.C.	3,262
			53,649		7	Abruckle	3,516
Catharine Northwest (1944)	4-13-17W	380	41,481	576,904	11	LansK.C.	
Cothania a us dodas	15 10 1897		150 051	1 000 140		Arbuckle	3,590
Catharine South (1946)	15-13-17W	760	170,051	1,339,142	26	LansK.C.	3,292
Catharine Townsite (1949)	9-13-17W	40	4,330	27 280	1	Arbuckle Arbuckle	3,555
Chrisler (1949)	22-11-16W	40	4,552	27,289 32,501	1	LansK.C.	3,585 3,100
Cochran (1953)	8-11-18W	40	12,129	19,750	1	LansK.C.	3,328
Degenhart (1953)	15-15-17W	200	22,441	32,545	5	LansK.C.	3,417
(2000)			6,005	,	1	Arbuckle	3,521
Dinges (1954)	9-15-18W	40	4,085	4,085	1	Arbuckle	3,624
Dinkel (1953)	23-13-17W	40	2,642	3, 116	1	LansK.C.	3,430
Drelling (1949)	21-14-16W	640	101,398	562,710	23	LansK.C.	3,120
						Arbuckle	3,367
Dreiling Southeast (1953)	27-14-16W	500	26,162	115,032	3	LansK.C.	3,072
_			60,213		7	Arbuckle	3,327
Eagle Creek (1954)	11-11-20W	40	2,775	2,775	1	LansK.C.	3,368
Ellis* (1942)	31-12-20W	1,000	83,559	1,066,848	17	Arbuckle	3,832
Ellis Northeast (1953)	32-12-20W	40	584	1,146	1	Arbuckle	3,853
Ellis South* (1952)	12-13-21W	40	6,104	8,443	1	Arbuckle	3,822
Emmeram (1937)	4-13-16W	160	15,155	268,824	5	LansK.C.	3,262
Emmeram Northeast (1949)	27-12-16W	1,200	111,300	493, 241	24	LansK.C.	3,272
						Arbuckle	3,541



Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing cone, feet
Emmeram Townsite (1952)	6-13-16W	80	9,270	25,627	2	LansK.C.	3, 291 3, 520
Erbert (1953)	20-12-20W	40	5,388	10,450	1		
						Arbuckle	3,906
Erbert Southeast (1954)	28-12-20W	40	1,215	1,215	1	Penn. congi	. 3,857
Experiment (1952)	8-14-18W	40	1,884	8,027	1	Arbuckle	3,675
Fairport* (1923)	8-12-15W	1,000	197,080	3,311,361	42	LansK.C.	2,950
						Gorham	3, 211
						Arbuckle	3,312
						Reagan	3,350
Fort Hays State College (1950)	1-14-J°W		no runs	1,203	1	Arbuckle	3,806
Giinther (1952)	17-11-1	80	12,906	35,848	2	LansK.C.	3,439
						Arbuckle	3,554
Hadley (revived) (1954)	20-11-17W	40	3,151	61,713	1	Arbuckle	3,474
Herl (1951)	28-14-17W	540	24,457	109,620	7	LansK.C.	3,382
						Penn. congl	. 3,453
						Arbuckle	3,476
Herman (1954)	28-13-20W	40	382	382	1	Arbuckle	3,865
Hertel (1952)	16-14-16W	40	2,045	13,695	1	LansK.C.	3, 134
Hertel Southwest (1952)	17-14-16W	40	544	7,622	1	LansK.C.	3,215
Herzog (1940)	30-13-16W	460	5,438	1,315,644	1	LansK.C.	3,232
			84,229		11	Arbuckle	3,450
Holy Cross (1953)	26-12-18W	120	25,328	43,088	4	LansK.C.	3,423
Irvin (1946)	6-1 <b>4-19W</b>	2,080	2,342	1,134,948	1	LansK.C.	3, 553
			321,789		43	Arbuckle	3,860
Irvin South (1951)	7-14-19W	120	17,860	27,936	3	Arbuckle	3,837
Jacob (1951)	6-11-19 <b>W</b>	40	2,065	11,191	1	LansK.C.	3,542
Jensen (1952)	26-12-18W	Comb	ined with Kol	olitz			
Karlin (1951)	14-13-17W	320	42,450	189,961	5	LansK.C.	3,348
Koblitz (1937)	23-12-18W	1,700	360,049	2,080,417	51	LansK. C.	3, 434
						Arbuckle	3,694
Koblitz Northwest (1954)	15-12-18W	120	11,813	11,813	3	Arbuckle	3,730
Kraus (1936)	22-14-19W		no runs	130,486	1	"Sooy"	3,735
						Arbuckle	3,732
Kraus North (1953)	16-14-19W		no report	none		Arbuckle	3,801
Krueger* (1948)	35-10-16W	640	128, 167	863, 110	20	LansK.C.	3,552
Leiker (1943)	14-15-18W	800	79,837	242,017	1	LansK.C.	3, 292
			7,463	•	1	Penn. congl	. 3,582
			2,893		9	Arbuckle	3,591
Leiker East (1953)	12-15-18W	700	75,794	87,782	11	LansK.C.	3, 321
						Arbuckle	3,576
Leiker Southeast (1954)	14-15-18W	80	7,119	7,119	2	Arbuckle	3,547
Lookout Hollow (1950)	31-14-18W		no runs	1,080	1	LansK.C.	
						Arbuckle	3,629
Mendota (1951)	5-11-20W	200	18,686	52,139	6	Lans, -K.C.	3,530
						Arbuckle	3,668
Nicholson (1945)	30-11-20W	800	83,728	440,921	16	Arbuckle	3,842
Nicholson North (1952)	19-11-20W	40	3,053	15,281	1	LansK.C.	3,610
Nicholson South (1954)	31-11-20W	Comb	ined with Nic				
Penny-Wann (1936)	13-15-20W	80	8,415	184, 167	2	"Sooy"	3,653
Pleasant (1944)	2-14-20W	1,000	121,693	1,429,941	17	Arbuckle	3,833
•		•	•	• • • • • • • • • • • • • • • • • • • •	-	Reagan	3,877
						Marmaton	3,805
						Penn. congl	•

Pleasant Ridge (1950)								
Pessant Ridge Southwest (1951)	, ,							3,814
Pleasant Ridge Southwest   19-12-17W   40   9,176   32,314   1   Arbuckle   3,67   (1951)     Polifica (1948)   7-13-17W   540   41,916   87,588   6   Arbuckle   3,68     Raynesford (1952)   17-13-20W   40   8,135   21,063   1   LansK.C.   3,57     Raynesford East (1952)   16-13-20W   40   8,043   18,759   1   Arbuckle   3,68     Rede (1949)   5-13-17W   80   10,730   20,008   2   LansK.C.   3,45     Reichert (1953)   9-15-19W   10,020   119,619   1,977,357   23   Arbuckle   3,68     Reichert (1943)   19-11-18W   1,020   119,619   1,977,357   23   Arbuckle   3,68     Rome (1952)   27-13-17W   600   102,176   639,151   55   LansK.C.   3,44     Arbuckle   3,56   639,151   1,272,637   5   LansK.C.   3,56     Schmeidler Northwest (1953)   20-12-17W   160   18,667   22,075   4   LansK.C.   3,56     Schoenchen (1946)   21-15-18W   1,000   88,539   1,013,369   19   Arbuckle   3,56     Schoenchen (1946)   21-15-18W   1,000   88,539   1,013,369   19   Arbuckle   3,56     Sagarloaf (1941)   17-13-17W   400   58,652   653,949   14   LansK.C.   3,26     Sagarloaf Southeast (1941)   28-13-17W   400   58,652   653,949   14   LansK.C.   3,26     Sagarloaf Southeast (1941)   28-13-17W   400   58,652   653,949   14   LansK.C.   3,26     Summydale (1952)   1-14-20W   100-report   1,000	Pleasant Ridge (1950)	20-12-17W	80 <b>0</b>		729,511	_		3,408
(1951) Politha (1948) 7-13-17W 540 41,916 97,588 6 Arbuckle 3,66 Raynesford (1952) 17-13-20W 40 8,135 21,063 1 LansK.C. 3,56 Raynesford (1952) 16-13-20W 40 8,043 18,759 1 Arbuckle 3,68 Reed (1949) 5-13-17W 80 10,730 20,008 2 LansK.C. 3,66 Reed (1949) 5-13-17W 80 10,730 20,008 2 LansK.C. 3,66 Reed (1949) 9-15-19W 10,000 118,619 1,977,357 23 Arbuckle 3,56 Remeinson (1952) 27-13-17W 600 102,176 639,151 27,276,637 9 LansK.C. 3,44 Reder (1953) 17-15-18W 1,000 102,176 639,151 25 LansK.C. 3,44 Arbuckle 3,56 Remeinson (1946) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,56 Remeinson (1952) 15-11-19W 600 39,751 1,372,637 9 LansK.C. 3,44 Arbuckle 3,56 Remeinson (1952) 15-11-19W 600 7,884 307,145 1 LansK.C. 3,54 Arbuckle 3,56 Regard (1952) 15-11-19W 600 7,884 307,145 1 LansK.C. 3,54 Arbuckle 3,56 Regard (1952) 15-11-19W 600 88,539 1,013,369 19 Arbuckle 3,56 Regard (1952) 15-11-19W 600 88,539 1,013,369 19 Arbuckle 3,56 Regard (1952) 15-11-19W 600 88,539 1,013,369 19 Arbuckle 3,56 Regard (1952) 15-11-19W 600 88,539 1,013,369 19 Arbuckle 3,68 Regard (1952) 15-11-19W 600 88,539 1,013,369 19 Arbuckle 3,68 Regard (1952) 1-14-20W no report 1,030 Arbuckle 3,58 Arbuckle 3,58 Arbuckle 3,58 Revet William (1950) 10-12-20W 40 2,474 14,121 LansK.C. 3,74 Arbuckle 3,58 Revet William (1950) 10-12-20W 40 2,474 14,121 LansK.C. 3,74 Arbuckle 3,88 Revet William (1950) 10-12-20W 40 2,474 14,121 Arbuckle 3,58 Arbuckle 3,58 Revet William (1950) 10-12-20W 40 2,474 14,121 Arbuckle 3,58 Arbuckle 3,58 Revet William (1950) 10-12-20W 40 2,474 14,121 Arbuckle 3,58 Arbuckle								3,683
Raynesford (1952) 17-13-20W 40 8,135 21,063 1 LansK.C. 3,56 Penn. cong. 3,87 Raynesford East (1952) 16-13-20W 40 8,043 18,759 1 Arbuckle 3,86 Reed (1943) 5-13-17W 80 10,730 20,008 2 LansK.C. 3,46 Arbuckle 3,56 Reichert (1953) 9-15-19W no runs 492 1 LansK.C. 3,46 Arbuckle 3,56 Reichert (1953) 19-11-18W 1,020 119,619 1,977,357 23 Arbuckle 3,56 Rome (1952) 27-13-17W Combined with Sugarlouf Southeast Ruder (1935) 17-15-18W 400 39,751 1,272,637 9 LansK.C. 3,46 Arbuckle 3,56 Reichert (1944) 28-12-17W 1,000 102,176 639,151 22,075 4 LansK.C. 3,46 Arbuckle 3,56 Arbuckl	_	19-12-17W	40	9,176	32,314	1		3,673
Raynesford East (1952)   16-13-20W   40   8,043   18,759   1   Arbuckle   3,64   Reed (1949)   5-13-17W   80   10,730   20,008   2   LansK. C.   3,44   Riverview (1943)   19-11-18W   1,020   119,619   1,977,357   23   Arbuckle   3,61   Rome (1952)   27-13-17W   Combined with Sugarlost Southeast (1953)   17-15-16W   640   39,751   1,272,637   9   LansK. C.   3,45   Rider (1944)   28-12-17W   1,000   102,176   639,151   25   LansK. C.   3,45   Lans.	Polifka (1948)	7-13-17 <b>W</b>	540	41,916	<b>97,</b> 588	6	Arbuckle	3,640
Raymenford East (1952)   16-13-20W	Raynesford (1952)	17-13-20W	40	8, 135	21,063	1		3,535
Reed (1949)   S-13-17W   80   10,730   20,008   2   LansK. C. 3,4   Arbuckle 3,5							•	3,870
Reichert (1953) 9-15-19W no runs 492 1 LansK. C. 3,4 Riverview (1943) 19-11-18W 1,020 119,619 1,977,357 23 Arbuckle 3,6 Rome (1952) 27-13-17W 600 39,751 1,272,637 9 LansK. C. 3,4 Arbuckle 3,6 Romer (1944) 28-12-17W 1,000 102,176 639,151 25 LansK. C. 3,4 Arbuckle 3,6 Romer (1944) 28-12-17W 160 18,667 22,075 4 LansK. C. 3,5 Arbuckle 3,6 Romer (1944) 28-12-17W 160 18,667 22,075 4 LansK. C. 3,6 Arbuckle 3,6 Romer (1944) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,6 Romer (1946) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,6 Romer (1952) 15-11-19W 600 7,884 307,145 1 LansK. C. 3,2 Romer (1952) 15-11-19W 600 7,884 307,145 1 LansK. C. 3,2 Romer (1952) 15-11-19W 600 7,884 307,145 1 LansK. C. 3,2 Romer (1952) 17-13-17W 400 58,652 653,849 14 LansK. C. 3,6 Romer (1941) 17-13-17W 400 58,652 653,849 14 LansK. C. 3,6 Romer (1941) 28-13-17W 960 42,322 725,679 9 LansK. C. 3,6 Romer (1941) 28-13-17W 960 42,322 725,679 9 LansK. C. 3,6 Romer (1952) 10-12-20W 40 2,474 14,121 1 LansK. C. 3,6 Romer (1952) 10-12-20W 40 2,474 14,121 1 LansK. C. 3,7 Romer (1950) 10-12-20W 40 2,474 14,121 1 LansK. C. 3,7 Romer (1950) 10-12-20W 40 2,474 14,121 1 LansK. C. 3,7 Romer (1950) 10-12-20W 40 2,474 14,121 1 LansK. C. 3,7 Romer (1950) 10-12-20W 40 2,474 14,121 1 LansK. C. 3,7 Romer (1950) 10-12-20W 40 2,474 14,121 1 LansK. C. 3,7 Romer (1950) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,7 Romer (1950) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,7 Romer (1950) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,7 Romer (1950) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,8 Romer (1953) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,8 Romer (1953) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,8 Romer (1953) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,8 Romer (1953) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,8 Romer (1953) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,8 Romer (1953) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,8 Romer (1953) 11-11-17W 160 23,764 33,078 4 LansK. C. 3,8 Romer (1953) 11-11-17W 160 23,764 33,0		16-13-20W		•	•			3,861
Reichert (1953)	Reed (1949)	5-13-17₩	80	10,730	20,008	2		3,424
Rivertice (1943)   19-11-18W   1,020   119,619   1,977,357   23   Arbuckle   3,61								3,596
Rome (1952)   27-13-17W   Combined with Sugarloaf Southeast Rader (1933)   17-15-18W   640   39,751   1,272,637   9   LansK. C.   3,42   Arbuckle   3,55   Arbuckle   3,5	Reichert (1953)	9-15-19 <b>W</b>						3,423
Ruder (1935)   17-15-18W   640   39,751   1,272,637   9   LansK.C.   3,4			-	•			Arbuckle	3,610
Schmeidler (1944) 28-12-17W 1,000 102,176 639,151 25 LansK.C. 3,56 Arbuckle 3,65 Schmeidler Northwest (1953) 20-12-17W 160 18,667 22,075 4 LansK.C. 3,56 Arbuckle 3,65 Schonechen (1946) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,56 Schoenchen (1946) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,56 Sessin (1952) 15-11-19W 5,500 632,002 2,20,061 96 Arbuckle 3,48 Sugarloaf (1941) 17-13-17W 400 58,652 653,949 14 Arbuckle 3,6 Sugarloaf (1941) 28-13-17W 400 58,652 653,949 14 Arbuckle 3,6 Sugarloaf Southeast (1941) 28-13-17W 960 42,322 725,679 9 LansK.C. 3,23 Arbuckle 3,6 Sugarloaf Southeast (1941) 28-13-17W 960 42,322 725,679 9 LansK.C. 3,33 Arbuckle 3,6 Sugarloaf Southeast (1941) 28-13-17W 400 58,652 653,949 14 LansK.C. 3,33 Arbuckle 3,6 Sugarloaf Southeast (1941) 28-13-17W 960 42,322 725,679 9 LansK.C. 3,33 Arbuckle 3,6 Sugarloaf Southeast (1952) 1-14-20W no report 1,030 Arbuckle 3,6 Sugarloaf Southeast (1952) 1-14-20W no report 1,030 Arbuckle 3,6 Sugarloaf (1955) 10-12-20W 40 2,474 14,121 1 LansK.C. 3,25 Arbuckle 3,5 Sugarloaf (1955) 1-12-10W 40 24,207 533,748 7 LansK.C. 3,25 Arbuckle 3,5 Sugarloaf (1955) 1-11-17W 160 23,764 33,078 4 LansK.C. 3,25 Arbuckle 3,5 Sugarloaf (1955) 1-13-18W 80 8,384 308,725 2 LansK.C. 3,25 Arbuckle 3,5 Sugarloaf (1955) 1-13-18W 800 129,343 177,197 14 Arbuckle 3,5 Sugarloaf (1952) 1-13-18W 600 129,343 177,197 14 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 600 129,343 177,197 14 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-18W 80 3,556 8,306 2 Arbuckle 3,5 Sugarloaf (1954) 1-13-15 Sugarloaf (1954) 1-13-15 Sugarloaf (1954) 1-13-15 Sugarloaf	Rome (1952)	27-13-17W	Com	_				
Schmeidler (1944) 28-12-17W 1,000 102,176 639,151 25 LansK.C. 3, 3/3 Arbuckle 3, 6/5	Ruder (1935)	17-15-18 <b>W</b>	640	39,751	1,272,637	9		3,422
Schmeidler Northwest (1953) 20-12-17W 160 18,667 22,075 4 LansK.C. 3,56 Schoenchen (1946) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,66 Schoenchen (1946) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,66 Schoenchen (1952) 15-11-19W 600 7,884 307,145 1 LansK.C. 3,58 Schoenchen (1936) 28-11-19W 3,500 632,002 2,230,061 96 Arbuckle 3,66 Sigarloaf (1941) 17-13-17W 400 58,652 653,949 14 LansK.C. 3,33 Arbuckle 3,66 Sigarloaf (1941) 28-13-17W 960 42,322 725,679 9 LansK.C. 3,34 Arbuckle 3,66 Schoenchen (1952) 1-14-20W no report 1,030 Arbuckle 3,66 Schoenchen (1952) 10-12-20W 40 2,474 14,121 1 LansK.C. 3,77 Arbuckle 3,50 Schoenchen (1935) 3-14-17W 600 24,207 533,748 7 LansK.C. 3,77 Arbuckle 3,50 Schoenchen (1936) 12-13-18W 80 8,384 308,725 2 LansK.C. 3,16 LansK.C. 3,17 Arbuckle 3,50 Schoenchen (1936) 12-13-18W 80 8,384 308,725 2 LansK.C. 3,16 LansK.C. 3,17 Arbuckle 3,50 Schoenchen (1936) 12-13-18W 80 8,384 308,725 2 LansK.C. 3,16 LansK.C. 3,1								3,572
Schmeidler Northwest (1953) 20-12-17W 160 18,667 22,075 4 LansK.C. 3,56 Arbuckle 3,66 Arbuckle 3,56 Schoenchen (1946) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,56 Sessin (1952) 15-11-19W 600 7,884 307,145 1 LansK.C. 3,26 Sessin (1952) 15-11-19W 3,500 632,002 2,230,061 96 Arbuckle 3,66 Sigarloaf (1941) 17-13-17W 400 58,652 653,949 14 LansK.C. 3,36 Sigarloaf (1941) 28-13-17W 960 42,322 725,679 9 LansK.C. 3,36 Sigarloaf Southeast (1941) 28-13-17W 960 42,322 725,679 9 LansK.C. 3,36 Sigarloaf Southeast (1941) 10-12-20W 40 2,474 14,121 1 LansK.C. 3,36 Sigarloaf (1952) 10-12-20W 40 2,474 14,121 1 LansK.C. 3,36 Sigarloaf (1953) 3-14-17W 600 24,207 533,748 7 LansK.C. 3,28 Arbuckle 3,56 Sigarloaf (1953) 11-11-17W 160 23,764 33,078 4 LansK.C. 3,16 Arbuckle 3,36 LansK.C. 3,16 Arbuckle 3,46 LansK.C. 3,16 LansK.C. 3	Schmeidler (1944)	28-12-17W	1,000	102, 176	639,151	25		3,389
Schoenchen (1946) 21-15-18W 1,000 88,539 1,013,369 19 Arbuckle 3,65 68ssin (1952) 15-11-19W 600 7,884 307,145 1 LansK.C. 3,25 115-1696 11 Arbuckle 3,65 68igarloaf (1941) 17-13-17W 400 58,652 653,949 14 LansK.C. 3,35 Arbuckle 3,66 68igarloaf (1941) 28-13-17W 960 42,322 725,679 1 LansK.C. 3,35 Arbuckle 3,66 8mmydale (1952) 1-14-20W no report 1,030 Arbuckle 3,56 8mmydale (1952) 1-14-20W no report 1,030 Arbuckle 3,56 8mmydale (1952) 1-14-20W no report 1,030 Arbuckle 3,56 8mmydale (1952) 3-14-17W 600 24,207 533,748 7 LansK.C. 3,70 Arbuckle 3,56 Arbuckle 3,56 8mmydale (1953) 11-11-17W 160 23,764 33,078 4 LansK.C. 3,25 Arbuckle 3,35 Ar								3,625
Schoenchen (1946)         21-15-18W         1,000         88,539         1,013,369         19         Arbuckle         3,51           Sessin (1952)         15-11-19W         600         7,884         307,145         1         Arbuckle         3,45           Solomon (1936)         28-11-19W         3,500         632,002         2,230,061         96         Arbuckle         3,46           Sugarloaf (1941)         17-13-17W         400         58,652         653,949         14         LansK.C.         3,3           Sugarloaf Southeast (1941)         28-13-17W         960         42,322         725,679         9         LansK.C.         3,6           Smmydale (1952)         1-14-20W         no report         1,030         Arbuckle         3,6           Sweet William (1950)         10-12-20W         40         2,474         14,121         1         LansK.C.         3,2           Toulon (1935)         3-14-17W         600         24,207         533,748         7         LansK.C.         3,2           Turkville (1953)         11-11-17W         160         23,764         30,772         2         LansK.C.         3,2           Turkville (1936)         21-3-18W         80         8,384	Schmeidler Northwest (1953)	20-1 <b>2-17W</b>	160	18,667	22,075	4		3,540
Sessin (1952)   15-11-19W   600   7,884   307,145   1								3,696
80lomon (1936) 28-11-19W 3,500 632,002 2,230,061 96 Arbuckle 3,63 garloaf (1941) 17-13-17W 400 58,652 653,949 14 LansK.C. 3,33 Arbuckle 3,652 681,949 14 LansK.C. 3,33 Arbuckle 3,652 686,947 35 Arbuckle 3,652 681,949 14 LansK.C. 3,33 Arbuckle 3,563 Manydale (1952) 1-14-20W no report 1,030 Arbuckle 3,56 A	, ,		•					<b>3,</b> 569
Solomon (1936)         28-11-19W         3,500         632,002         2,230,061         96         Arbuckle         3,63           Sugarloaf (1941)         17-13-17W         400         58,652         653,949         14         LansK.C.         3,31           Sugarloaf Southeast (1941)         28-13-17W         960         42,322         725,679         9         LansK.C.         3,33           Summydale (1952)         1-14-20W         no report         1,030         Arbuckle         3,63           Sweet William (1950)         10-12-20W         40         2,474         14,121         1         LansK.C.         3,70           Toulon (1935)         3-14-17W         600         24,207         533,748         7         LansK.C.         3,70           Turkville (1953)         11-11-17W         160         23,764         33,078         4         LansK.C.         3,15           Ubert (1936)         12-13-18W         80         8,384         308,725         2         LansK.C.           Ubert North (1951)         31-12-17W         260         46,310         126,685         7         Arbuckle         3,55           Ubert North (1953)         -1-3-18W         600         129,343         177,1	Sessin (1952)	15-11-19 <b>W</b>	600	•	307,145			3,291
Sugarloaf (1941)         17-13-17W         400         58,652         653,949         14         LansK.C.         3,3         Arbuckle         3,6           Sugarloaf Southeast (1941)         28-13-17W         960         42,322         725,679         9         LansK.C.         3,3         Arbuckle         3,6           Sumnydale (1952)         1-14-20W         no report         1,030         Arbuckle         3,8           Sweet William (1950)         10-12-20W         40         2,474         14,121         1         LansK.C.         3,8           Sweet William (1950)         3-14-17W         600         24,207         533,748         7         LansK.C.         3,2           Toulon (1935)         3-14-17W         600         23,764         33,078         4         LansK.C.         3,2           Turkville (1953)         12-13-18W         80         8,384         308,725         2         LansK.C.         3,16           Ubert (1936)         12-13-18W         600         129,343         177,197         14         Arbuckle         3,57           Ubert North (1951)         31-12-17W         260         46,310         126,685         7         Arbuckle         3,52           Ub				•				3,499
## Arbuckle   3,6		28-11-19 <b>W</b>		•				3,629
Sugarloaf Southeast (1941)         28-13-17W         960         42,322         725,679         9         LansK.C.         3,3           Sumnydale (1952)         1-14-20W         no report         1,030         Arbuckle         3,5           Sweet William (1950)         10-12-20W         40         2,474         14,121         1         LansK.C.         3,74           Toulon (1935)         3-14-17W         600         24,207         533,748         7         LansK.C.         3,52           Turkville (1953)         11-11-17W         160         23,764         33,078         4         LansK.C.         3,14           Ubert (1936)         12-13-18W         80         8,384         308,725         2         LansK.C.         3,61           Ubert North (1951)         31-12-17W         260         46,310         126,685         7         Arbuckle         3,61           Ubert North (1952)         1-13-18W         600         129,343         177,197         14         Arbuckle         3,62           Victoria North (1953)         6-14-16W         80         3,556         8,306         2 Arbuckle         3,61           Walter (1936)         13-12-18W         40         3,812         3,812	Sugarloaf (1941)	17-13-17W	400	58,652	653,949	14		3,391
Summydale (1952)   1-14-20W   no report   1,030   Arbuckle   3,55								3,645
Sumydale (1952)   1-14-20W   no report   1,030   Arbuckle   3,85	Sugarloaf Southeast (1941)	28-13-17W	960		725,679	-		3,312
Sweet William (1950)   10-12-20W   40   2,474   14,121   1   LansK.C.   3,70   Arbuckle   3,90   Arbuckle   3,90   Arbuckle   3,90   Arbuckle   3,90   Arbuckle   3,90   Arbuckle   3,90   Arbuckle   3,50   A	_					35		3,520
Toulon (1935) 3-14-17W 600 24,207 533,748 7 LansK.C. 3,26 Arbuckle 3,56 Turkville (1953) 11-11-17W 160 23,764 33,078 4 LansK.C. 3,16 Arbuckle 3,35 Ubert (1936) 12-13-18W 80 8,384 308,725 2 LansK.C. 3,16 Arbuckle 3,70 Lert North (1951) 31-12-17W 260 46,310 126,685 7 Arbuckle 3,60 Ubert Northwest (1952) 1-13-18W 600 129,343 177,197 14 Arbuckle 3,50 Victoria North (1953) 6-14-16W 80 3,556 8,306 2 Arbuckle 3,47 Walter (1936) 2-12-18W 1,800 294,858 6,273,093 61 Topeka 3,16 LansK.C. Arbuckle 3,60 Warren (1949) 12-11-20W 40 3,812 3,812 1 Arbuckle 3,60 Warren (1949) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,44 Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86 Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK.C. 3,30 Arbuckle 3,55 Wheatland Southwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,55 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,25 Wheatland Southwest (1953) 19-15-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 500 58,971 356,368 1,861				-	-			3,850
Toulon (1935) 3-14-17W 600 24,207 533,748 7 LansK.C. 3,26 Arbuckle 3,5.  Turkville (1953) 11-11-17W 160 23,764 33,078 4 LansK.C. 3,16 Arbuckle 3,5.  Turkville (1936) 12-13-18W 80 8,384 308,725 2 LansK.C. Arbuckle 3,70 Ar	Sweet William (1950)	10-12-20W	40	2,474	14,121	1		3,700
Turkville (1953)  11-11-17W 160 23,764 33,078 4 LansK.C. 3,164 Arbuckle 3,53  Ubert (1936)  12-13-18W 80 8,384 308,725 2 LansK.C. Arbuckle 3,73  Ubert North (1951)  31-12-17W 260 46,310 126,685 7 Arbuckle 3,60  Ubert Northwest (1952) 1-13-18W 600 129,343 177,197 14 Arbuckle 3,55  Victoria North (1953) 6-14-16W 80 3,556 8,306 2 Arbuckle 3,55  Walter (1936)  2-12-18W 1,800 294,858 6,273,093 61 Topeka 3,16  Walter Southeast (1954) 13-12-18W 40 3,812 3,812 1 Arbuckle 3,63  Walter Southeast (1954) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,46  Weisner (1949) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,46  Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86  Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK.C. 3,33  Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,55  Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,25  Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,55  Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,55  Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55  Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55  Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55  Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55  Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55  Younger South (1954) 8-14-17W 500 58,971 356,367 12 Arbuckle 3,55  ELLEWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,56  Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04								3,908
Turkville (1953)	Toulon (1935)	3-14-17W	600	24,207	533,748	7		3,298
Ubert (1936) 12-13-18W 80 8,384 308,725 2 LansK.C. Arbuckle 3,76 Ubert North (1951) 31-12-17W 260 46,310 126,685 7 Arbuckle 3,66 Ubert Northwest (1952) 1-13-18W 600 129,343 177,197 14 Arbuckle 3,56 Victoria North (1953) 6-14-16W 80 3,556 8,306 2 Arbuckle 3,56 Walter (1936) 2-12-18W 1,800 294,858 6,273,093 61 Topeka 3,16 LansK.C. Arbuckle 3,66 Walter Southeast (1954) 13-12-18W 40 3,812 3,812 1 Arbuckle 3,66 Warren (1949) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,46 Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86 Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK.C. 3,36 Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,56 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,26 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,26 Wounger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,56 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,56 Total Ellis County 60,540 11,366,975 169,738,638 1,861  ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,36 Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04								3,512
Ubert (1936)	Turkville (1953)	11-11-17W	160	23,764	33,078	4		3,165
Ubert North (1951) 31-12-17W 260 46,310 126,685 7 Arbuckle 3,60 Ubert Northwest (1952) 1-13-18W 600 129,343 177,197 14 Arbuckle 3,55 Victoria North (1953) 6-14-16W 80 3,556 8,306 2 Arbuckle 3,57 Walter (1936) 2-12-18W 1,800 294,858 6,273,093 61 Topeka 3,16  LansK. C.  Arbuckle 3,61  Warren (1949) 12-11-20W 40 5,262 43,184 1 LansK. C. 3,46 Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86 Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK. C. 3,33  Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,56 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK. C. 3,25  Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,56  Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,56  Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,56  Topeka 3,16  ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,56  Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK. C. 3,04								<b>3</b> ,359
Ubert North (1951) 31-12-17W 260 46,310 126,685 7 Arbuckle 3,60 Ubert Northwest (1952) 1-13-18W 600 129,343 177,197 14 Arbuckle 3,55 Victoria North (1953) 6-14-16W 80 3,556 8,306 2 Arbuckle 3,40 Harbuckle 3,40 Harbuc	Ubert (1936)	12-13-18W	80	8,384	308,725	2		
Ubert Northwest (1952) 1-13-18W 600 129,343 177,197 14 Arbuckle 3,55 Victoria North (1953) 6-14-16W 80 3,556 8,306 2 Arbuckle 3,47 Walter (1936) 2-12-18W 1,800 294,858 6,273,093 61 Topeka 3,16 LansK.C. Arbuckle 3,65 Walter Southeast (1954) 13-12-18W 40 3,812 3,812 1 Arbuckle 3,65 Warren (1949) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,46 Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86 Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK.C. 3,25 Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,55 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,25 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,25 Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Total Ellis County 60,540 11,366,975 169,738,638 1,861						_		-
Victoria North (1953)         6-14-16W         80         3,556         8,306         2         Arbuckle         3,47           Walter (1936)         2-12-18W         1,800         294,858         6,273,093         61         Topeka         3,16           LansK.C.         Arbuckle         3,61         LansK.C.         Arbuckle         3,61           Walter Southeast (1954)         13-12-18W         40         3,812         3,812         1         Arbuckle         3,63           Warren (1949)         12-11-20W         40         5,262         43,184         1         LansK.C.         3,47           Weisner (1952)         36-12-20W         no runs         1,509         1         Penn. congl.         3,86           Wheatland (1949)         18-15-17W         500         87,036         176,224         14         LansK.C.         3,36           Wheatland Northwest (1953)         12-15-18W         80         8,510         13,568         2         Arbuckle         3,56           Wheatland Southwest (1953)         19-15-17W         500         9,284         122,135         1         LansK.C.         3,26           Younger (1944)         6-14-17W         500         58,971         356,367				•	-			•
Walter (1936)  2-12-18W 1,800 294,858 6,273,093 61 Topeka 3,16 LansK.C. Arbuckle 3,63								
Waiter Southeast (1954) 13-12-18W 40 3,812 3,812 1 Arbuckle 3,63 Warren (1949) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,48 Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86 Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK.C. 3,33 Arbuckle 3,55 Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,55 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,28 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,28 Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 Younger So						_		3,471
Walter Southeast (1954) 13-12-18W 40 3,812 3,812 1 Arbuckle 3,65 Warren (1949) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,44 Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86 Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK.C. 3,34 Arbuckle 3,55 Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,55 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,25 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,25 Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,55 Younger South (	Walter (1936)	2-12-18W	1,800	294,858	6,273,093	61	•	3, 160
Waiter Southeast (1954) 13-12-18W 40 3,812 3,812 1 Arbuckle 3,63 Warren (1949) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,45 Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86 Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK.C. 3,36 Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,55 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,26 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,26 Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,57 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,57 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,57 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,57 Younger South (1954) 8-14-17W 40 1,942 1 Arbuckle 3,57 Younger South (19								
Warren (1949) 12-11-20W 40 5,262 43,184 1 LansK.C. 3,46 Weisner (1952) 36-12-20W no runs 1,509 1 Penn. congl. 3,86 Wheatland (1949) 18-15-17W 500 87,036 176,224 14 LansK.C. 3,36 Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,55 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,26 93,276 14 Arbuckle 3,55 Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Younger fields abandoned Total Ellis County 60,540 11,366,975 169,738,638 1,861  ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,36 Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04	W.1. 6 .1	40 40 4000			• • • •	_		-
Weisner (1952)       36-12-20W       no runs       1,509       1       Penn. congl.       3,86         Wheatland (1949)       18-15-17W       500       87,036       176,224       14       LansK.C.       3,36         Arbuckle       3,57       Arbuckle       3,57       Arbuckle       3,57         Wheatland Northwest (1953)       12-15-18W       80       8,510       13,568       2       Arbuckle       3,57         Wheatland Southwest (1953)       19-15-17W       500       9,284       122,135       1       LansK.C.       3,28         93,276       14       Arbuckle       3,57         Younger (1944)       6-14-17W       500       58,971       356,367       12       Arbuckle       3,57         Younger South (1954)       8-14-17W       40       1,942       1,942       1       Arbuckle       3,57         Pools or fields abandoned       60,540       11,366,975       169,738,638       1,861       ELLSWORTH COUNTY         ELLSWORTH COUNTY         Andrews (1952)       4-17-8W       500       30,114       62,118       5       Arbuckle       3,36         Bloomer* (1936)       36-17-11W       2,900       482,505					•			•
Wheatland (1949)         18-15-17W         500         87,036         176,224         14         LansK.C.         3,30           Wheatland Northwest (1953)         12-15-18W         80         8,510         13,568         2         Arbuckle         3,56           Wheatland Southwest (1953)         19-15-17W         500         9,284         122,135         1         LansK.C.         3,26           Younger (1944)         6-14-17W         500         58,971         356,367         12         Arbuckle         3,56           Younger South (1954)         8-14-17W         40         1,942         1,942         1         Arbuckle         3,56           Pools or fields abandoned         167,820         169,738,638         1,861         1         ELLSWORTH COUNTY           ELLSWORTH COUNTY           Andrews (1952)         4-17-8W         500         30,114         62,118         5         Arbuckle         3,30           Bloomer* (1936)         36-17-11W         2,900         482,505         13,569,312         96         LansK.C.         3,04			40	•	•			
Wheatland Northwest (1953) 12-15-18W 80 8,510 13,568 2 Arbuckle 3,56 Wheatland Southwest (1953) 19-15-17W 500 9,284 122,135 1 LansK.C. 3,26 93,276 14 Arbuckle 3,56 Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,56 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,56 Pools or fields abandoned Total Ellis County 60,540 11,366,975 169,738,638 1,861 ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,36 Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04					•		_	
Wheatland Northwest (1953)         12-15-18W         80         8,510         13,568         2         Arbuckle         3,56           Wheatland Southwest (1953)         19-15-17W         500         9,284         122,135         1         LansK.C.         3,26           Younger (1944)         6-14-17W         500         58,971         356,367         12         Arbuckle         3,57           Younger South (1954)         8-14-17W         40         1,942         1,942         1         Arbuckle         3,57           Pools or fields abandoned         167,820         169,738,638         1,861         1,861         1,861           ELLSWORTH COUNTY           Andrews (1952)         4-17-8W         500         30,114         62,118         5         Arbuckle         3,30           Bloomer* (1936)         36-17-11W         2,900         482,505         13,569,312         96         LansK.C.         3,04	Wheatland (1949)	18-15-17W	500	87,036	176,224	14		3,307
Wheatland Southwest (1953) 19-15-17W 500 9, 284 122,135 1 LansK. C. 3, 25 93, 276 14 Arbuckle 3, 55 Younger (1944) 6-14-17W 500 58, 971 356, 367 12 Arbuckle 3, 57 Younger South (1954) 8-14-17W 40 1, 942 1, 942 1 Arbuckle 3, 57 Younger fields abandoned Total Ellis County 60, 540 11, 366, 975 169, 738, 638 1, 861  ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30, 114 62, 118 5 Arbuckle 3, 36 Bloomer* (1936) 36-17-11W 2, 900 482, 505 13, 569, 312 96 LansK. C. 3, 04	775 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					_		3,571
93,276	• •				-			3,566
Younger (1944) 6-14-17W 500 58,971 356,367 12 Arbuckle 3,57 Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,57 Pools or fields abandoned Total Ellis County 60,540 11,366,975 169,738,638 1,861  ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,36 Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04	wneattand Southwest (1953)	19-15-17W	500	•	122,135			3,252
Younger South (1954) 8-14-17W 40 1,942 1,942 1 Arbuckle 3,55 Pools or fields abandoned Total Ellis County 60,540 11,366,975 169,738,638 1,861  ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,36 Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04	V			•				3,554
Pools or fields abandoned Total Ellis County  60,540  11,366,975  169,738,638  1,861  ELLSWORTH COUNTY  Andrews (1952)  4-17-8W 500 30,114 62,118 5 Arbuckle 3,36  Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04				•	•			3,574
Total Ellis County 60,540 11,366,975 169,738,638 1,861  ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,30 Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04		8-1 <b>4-</b> 17W	40	1,942	-	1	Arbuckie	3,546
ELLSWORTH COUNTY  Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,30 Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04			00 F40	11 000 000		1 001		
Andrews (1952) 4-17-8W 500 30,114 62,118 5 Arbuckle 3,30 Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04	Iotal Ellis County					1,861		
Bloomer* (1936) 36-17-11W 2,900 482,505 13,569,312 96 LansK.C. 3,04								
					•			3,302
	Bloomer* (1936)	36-17-11 <b>W</b>	2,900	482,505	13,569,312	96		3,044
Arbickie 3,2:							Arbuckle	3,257



TABLE 56.-Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, feet
Geneseo-Edwards* (1934)	25-18-8W	3,680	924,516	16,453,262	143	Simpson	3, 157
C Cd (1054)	1-17-9W	40	4,667	4,667	1	Arbuckle LansK.C.	3,275 3,046
Green Garden (1954) Heiken (1930)	25-17-10W	800	15,867	290,684	2	LansK.C.	2,974
Herken (1550)	25-11-10**	000	114,428	250,001	16	Penn. congl.	
			3,519		2	Arbuckle	3, 269
Heiken North (1942)	24-17-10W	80	6,615	189,637	2	Arbuckle	3,212
Kraft-Prusa* (1937)	10-17-11W	800	73,004	1,078,644	14	Shawnee	2,885
` '						LansK.C.	3,160
						Gorham	<b>3,3</b> 35
						Arbuckle	3,281
						Reagan	3,310
Kraft-Prusa East (1944)	18-17-10W	40	2,402	13,723	1	Arbuckle	3,309
Lorraine (1934)	13-17-9W	2,000	84,808	10,733,457	34	LansK.C.	3,060
						Arbuckle	3,200
Lorraine North (1953)	12-17-9W	80	26,758	33,851	2	LansK.C.	3,066
Maes (1952)	26-17-8W	760	209,329	538,030	21	Arbuckle	3,341
Palacky (1949)	31-16-10W	80	2,727	31,173	2	LansK.C.	3,148
						Arbuckle	3,390
Stoltenberg (1931)	22-16-10 <b>W</b>	13,200	1,135,888	37,248,702	335	LansK.C.	3,260
	00 15 1077	0.40	00 00	000 040	_	Arbuckle	3, 333
Vacek (1944)	32-15-10W	640	29,937	299,846	7	Arbuckle	3, 315
West (1951)	20-17-10W	80	6,392	24,424	2	Arbuckle	3, 287
Wilkens Southeast (1942)	32-17-9W	$\frac{300}{25,980}$	14,376	453,525	6	Arbuckle	3,220
Total Ellsworth County		23,360	3,167,852	81,025,055	691		
		FINNE	Y COUNTY				
Beyer (1952)	24-26-33W	40	4,376	17,539	1	LansK.C.	4,398
Damme (1951)	21-22-33W	400	64,048	185,205	8	Mississippia	4,626
Damme Northeast (1953)	16-22-33W	40	7,750	12,047	1	Mississippiar	1 4,639
Finnup (1953)	34-22-33W	320	30,397	36,632	8	Mississippian	4,756
Finnup East (1953)	25-22 <b>-33W</b>	40	5,381	5,636	1	Marmaton	4,442
Nunn (1938)	27-21-34W	1,300	103,800	2,093,181	28	Kansas City	
						Marmaton	
						"Cherokee"	4,550
- 1 (4000)		40	045	- 400		"Miss.lime"	4,654
Sonderegger (1952)	21-22-31W	40	845	5,438	1	Mississippiar	
Stewart (1952)	6-23-30 <b>W</b>	40	3,613	11,906	1	Mississippiar	1 4,710
Total Finney County		2,220	220,210	2,367,584	49		
		FORI	COUNTY				
Pleasant Valley (1950)	34-27-21W	40	639	13,509	1		
		FRANK	LIN COUNTY				
Baldwin*	15-20E	160	2,014		1		
LeLoup	15-20E	40	447		1	"Squirrel"	750
Paola-Rantoul* (1860)	17-21E				414	"Knobtown"	300
2		3,200	240,616			Hepler	400
b		320	35,233			"Prue"	500
c		640	17,405			"Squirrel"	600
d		20	228			"Bartlesville'	700

e		2,600	114,729				
f		240	2,575				
g		320	2,863				
h		10	112				
i		1,800	37,323				
j		10	70				
k		20	280				
Total Franklin County		9,380	453, 895	9,518,465 recorded	416		
		GOVI	COUNTY				
Beougher (1952)	8-13-30W		no runs	652	1	LansK.C.	4,079
Coberly (1951)	15-14-29W	80	14,434	53,655	2	Marmaton	4,287
Gove (1951)	26-13-30W		no runs	3,977	2	LansK.C.	4, 122
•				-,		Mississippian	•
Jasper (1951)	30-15-29W		no report	740		LansK.C.	3,670
Lundgren (1952)	30-14-29W	80	726	4,454	2	<b>M</b> ississippian	4,306
Lundgren South (1952)	31-14-29W	360	12,689	41,587	4	Mississippian	4,277
Pyramids (1952)	9-15-31W		no runs	4,387	_1	Marmaton	4,280
Total Gove County		520	27,849	109,452	12		
		GRAHA	M COUNTY				
Alda (1944)	15-7-22W	700	20,093	63,127	4	LansK.C.	3,518
Cooper (1950)	11-10-21W	4,980	856,303	<b>3,9</b> 75,838	112	LansK.C.	3,528
						Arbuckle	3,841
Cooper North (1953)	33-9-21 <b>W</b>	300	18, <b>49</b> 1	26,673	7	Arbuckle	3,905
Crocker (1951)	18-10-21 <b>W</b>	40	4,505	19,140	1	Arbuckle	3,916
Diebolt* (1953)	33-10-2 <b>3</b> W	160	25,866	28,513	4	LansK.C.	3,779
Dorman (1952)	30-10-23W	40	3,820	12,283	1	LansK.C.	3,921
Fargo (1950)	26-9-22W	120	9,265	58,359	3	LansK.C.	3,622
Fargo West (1951)	34-9-22W	80	676	3,001	2	LansK.C.	3,755
Faulkner (1945)	27-10-22W	160	7,924	198,793	4 2	LansK.C.	3,629
Gettysburg (1941) Happy (1954)	7-8- <b>23W</b> 21-10-23 <b>W</b>	80 1,300	4,286 122,265	66,747	34	LansK.C. LansK.C.	3,725 3,804
Happy Southeast (1954)	28-10-23W	-	bined with Hap	122,265	34	LansK.C.	3, 804
Harmony (1951)	32-7-22W	700	66,612	151,757	9	LansK.C.	3,597
Highland (1951)	20-8-22W	40	2,314	10,417	1	LansK.C.	3,616
Holley (1954)	3-9-24W	300	2,453	2,453	3	LansK.C.	3,900
Hoof (1954)	9-10-23W	80	1,643	1,643	2	LansK.C.	3,865
Houston (1947)	9-6-22W		no runs	19,516	1	LansK.C.	3,506
Ironclad (1950)	23-9-22W	700	53, 156	197,529	10	LansK.C.	3,756
Laura* (1950)	30-10-20W	1,200	134,308	179,671	19	Arbuckle	3,706
Law (1951)	34-9-23W	900	115,825	538,428	14	LansK.C.	3,922
			17,504		2	Penn. congl.	4,126
Mickleson (1952)	27-8-22W	120	18,030	31,583	3	LansK.C.	3,502
						Arbuckle	3,759
Millbrook (1951)	21-8-23W	40	2,074	15,796	1	LansK.C.	3,761
Montgomery (1953)	8-8 <b>-23W</b>		no runs	316	1	LansK.C.	3,504
Morel (1938)	15-9-21 <b>W</b>	6,400	1,621,294	18,253,158	208	"Sooy"	3,712
						Arbuckle	3,718
Morel East (1949)	13-9-21W	300	28,997	282,206	5	Arbuckle	3,729
Morel Northwest (1953)	7-9-21W	200	58,054	72,228	7	Arbuckle	3,786
Morlan (1949)	23-10-21W	400	70,639	373,076	11	Arbuckle	3,778
Mullenburg* (1949)	1-10-21W	80	3,720	26, 298	2	Arbuckle	3,839
Nana (1953)	4-8-24W	700	98,676	99,162	20	LansK.C.	3,738
Noah (1952)	27-10-21W	160	29,621	66,382	4	LansK.C. Arbuckle	3,651 3,786
Noah East (1953)	26-10-21W	160	37,556	42,133	4	Arbuckle	3,703
Noah Southwest (1954)	33-10-21W	40	843	843	1	Marmaton	3,756
	//		0.0	0.10	-		-,



TABLE 56 .- Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing zone, feet
Penokee (1940)	11-8-24W	130	17,531	234,848	5	LansK.C.	3,750
Prairie Glen (1954)	25-10-23W	40	669	669	1	LansK.C.	3,596
Ray* (1949)	32-5-20W	40	93	1,240	1	LansK. C.	3,297
						Arbuckle	3,575
						Reagan	3,540
Sand Creek (1954)	27-8-21 <b>W</b>	40	589	589	1	LansK. C.	3,387
Schmied (1952)	21-8-25W	1,280	175,723	234,793	28	LansK. C.	3,740
Schmied Northeast (1954)	10-8-25W	80	4,073	4,073	2	LansK.C.	3,867
Schnebly (1952)	8-8-22 <b>W</b>	80	6,968	17,779	2	LansK.C.	3,507
Shiloh (1951)	1-9-25W	40	9,691	31,695	1	LansK. C.	4,013
Smith-Denning (1950)	5-10-21W	900	92,923	433,693	17	LansK. C.	3,530
						Arbuckle	3,818
Van (1954)	14-9-22W	40	1,806	1,806	1	Arbuckle	3,871
White (1952)	25-10-21W	Coml	oined with Lau	ıra			
White Southwest* (1953)	35-10-21W	500	126,738	154,062	19	Arbuckle	3,688
Wild Horse Creek (1950)	16-9-22W		no runs	10,095	1	Arbuckle	3,944
Worcester (1951)	23-7-22W	40	2,309	11,301	1	Arbuckle	3,792
Pools or fields abandoned				12,765			
Total Graham County		23,690	3,875,926	26,088,742	582		

## **GRAY COUNTY**

Jumbo (1953)	29-29-27W		no report	none	Cherokee?	5, 103
		GREENW	OOD COUNTY			
Atyeo* (1925)	30-21-10E	320	187,338	19	"Bartlesville"	2,250
Beaumont (1920)	27-8E	640	77,761	36	"Peru"	1,830
					Mississippian	2,445
					Arbuckle	2,740
Beaumont North	27-9E	20	335	1	Mississippian	2,477
					Ordovician	2,800
Beaumont South (1935)	2-28-8E	80	7,874	5	Mississippian	2,500
Blackwell (1925)	16-24-13E	320	30,589	8	Mississippian	1,650
Blankenship* (1921)	26-8E	160	65,507	11	"Bartlesville"	2,650
Brinegar	26-13E	320	5,412	5	"New Albany"	427
Brinegar North	26-13E			3	•	
a		10	262			
b		40	1,951			
Browning (1924)	22-10E	1,600	102,499	94	"Bartlesville"	2,314
Burkett (1923)	24-23-10E	1,600	204,674	87	"Bartlesville"	2,000
Burt (1949)	8-26-11E	160	2,028	3	Mississippian	1,945
Climax (1925)	27-11E	160	3,828	· 1	Mississippian	1,900
DeMalorie-Souder (1924)	22-10E	2,700	306,706	141	"Bartlesville"	2,150
Dunaway* (1922)	34-22-13E	1,600	63, 141	69	Mississippian	1,800
Eureka	31-25-11E	•	•	60	Fort Scott	1,750
<b>a</b> .		160	1,834		Mississippian	2,000
ь		1,280	53,407			
Fankhouser* (1926)	4-22-12E	900	122,562	37	"Bartlesville"	1,850
Gaffney (1926)	18-24-11 <b>E</b>	160	9,319	3	"Bartlesville"	1,850
Gilroy (1928)	12-25-12E		no report		Mississippian	1,600
Hamilton (1925)	7-24-12E		-	83	"Bartlesville"	1,650
<b>a</b> `		2,000	105,697		Mississippian	1,800
ь		240	569			



Hinchman (1927)	17-24-13E	480	13,496	10	Mississippian 1,615
Hollis (1927)	16-23-10E	240	2,156	2	"Bartlesville" 2, 150
Honey Creek (1950)	32-26-11E		no report		Mississippian 1,871
Hubbard	22-1 <b>3</b> E	40	850	1	
Jackson	25-8E			2	"Bartlesville"
<b>a</b>		10	159		
b		120	3,952		
Jobes	24-13E	160	4,610	5	
Lamont (1926) Ly-Green* (1954)	29-22-13E	2,200	233,832	79	"Bartlesville" 1,700
Madison	5-22-11 <b>E</b> 14-22-11 <b>E</b>	40	352	2 103	"Bartlesville" 1,858 "Bartlesville" 1,800
1	14-22-116	240	4,543	103	Daruesville" 1,000
b		640	452,451		
Morris (1950)	28-24-13E		no report		
Ott	7-22-13E	20	1,948	1	
Parks	24-10E		no report		
Pixlee (1923)	7-22-10E	920	30,835	26	"Bartlesville" 2,350
					Mississippian 2,400
Polhamus (1922)	25-9E	1,100	233,718	45	"Bartlesville" 2, 180
Quincy* (1926)	31-24-12E	1,280	43, 123	121	"Bartlesville" 1,500
_					Mississippian 1,720
Reece	24-26-9E			23	Kansas City 1,380
a b		900	17,809		Mississippian 2,100
Sallyards	9E 9E	80	652	140	#Dandlage#11a# 0 050
a.	25-8E	1,800	204, 291	140	"Bartlesville" 2, 350
<u>-</u> b		320	50,961		
Scott (1925)	24-23-8E	900	112,852	38	"Bartlesville" 2,525
Seeley-Wick (1922)	28-23-11E		222,002	308	"Bartlesville" 1,930
a		2,700	536,363		
b		1,900	1,134,245		
Severy*	8-28-11E			5	Kansas City 1,200
2		480	8, 390		
_ <b>b</b>		160	2,792		
Severy North	27-11E	320	740	1	
Stanhope	15-26-8E	240	<b>29</b> , 237	10	Mississippian 2,450
Teeter* (1920)	16-23-9E			173	"Bartlesville" 2,400
<b>a</b> b		2,000	157,298		
Teichgraber (1939)	25-8E	320	8,200	21	UDantleavilleu 9 750
a a	25-62	240	1,300	21	"Bartlesville" 2,750
<u>-</u> Ь		640	16,883		
c		40	468		
Thrail-Aagard (1921)	14-24-9E			297	"Bartlesville" 2, 170
4		2,700	846,700		,
b		640	147,839		
c		320	6,704		
_ d		40	698		
Tonovay	25-11E	440	10, 251	6	
Tonovay North			no report		
Tonovay West (1950)	33-25-11E		no report	•	Mississippian 1,948
Toronto (1913)	16-26-13E	00	1 007	3	"Peru" 1,000
<b>a</b> b		80 80	1,287		"Bartlesville" 1,700
Tucker		00	2,649 no report		
Verdigris (1953)	2-24-12E		no report		Mississippian 1,784
Virgil (1916)	14-24-12E	3,600	139,633	149	"Bartlesville" 1,550
÷ ,,		-,	,		Mississippian 1,700
Virgil North* (1920)	22-23-13E	5,500	262,845	369	"Bartlesville" 1,585
• •		•	•		Mississippian 1,840
Wiggins (1925)	30-24-11E	1,280	32,788	53	"Bartlesville" 1,860



TABLE 56.-Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells		Depth to pro- ducing ne, feet
Wilkerson (1926)	6-25-9E		no report	-		"Bartlesville"	
Willard	7-27-11E	240	25,853		14	Miss. "chat"	
Zimmermann (1953)	19-23-10E	80	2,298	7,228	2	"Bartlesville'	2,296
Miscellaneous Total Greenwood County		50,000	$\frac{132}{6,141,476}$	196, 323, 700	2 607		
Total Greenwood County		50,000	0,141,470	recorded	2,037		
		HARPE	R COUNTY				
Banner (1954)	27-32-7 <b>W</b>	80	6,978	6,978	2	Viola	4, 833
Berg (1954)	29-32-7W	40	1,909	1,909	1	Viola	4,758
Bluff Creek (1952)	24-34-5W		no runs	1,284	1	LansK.C.	3,938
Dusenbury (1954)	3-32-9W	40	745	745	1	Mississippian	4,465
Dusenbury North (1954)	34-31-9W		no report	none		Mississippian	
Grabs (1949)	13-31-9W	4,000	115,381	169,161	42	Mississippian	4,400
Grabs East (1954)	9-31-8W	Comi	oined with Grab			••	
Grabs Northeast (1954)	8-31-8W	Coml	bined with Grab	8			
Grabs South (1954)	25-31-9W	700	27,555	27,555	7	Mississippian	4,397
Grabs West (1954)	14-31-9W	Coml	bined with Grab			• •	
Total Harper County		4,860	152,568	207,632	54		
		HARVE	Y COUNTY				
Burrton* (1931)	1-23 <b>-4W</b>		Included wi	ith Reno Co.		Mississippian	
						"Hunton"	3,583
Burrton Northeast (1942)	3-23- <b>3W</b>	200	155	7,917	2	"Chat"	3, 224
					_	Mississippian	
Graber* (1934)	32-21-1W	100	2,840	154,299	1		3,323
1 . 1						"Hunton"	3,274
Halstead (1929)	36-22-2W	1,200	23,629	1,963,639	10	"Chat"	3,005
Hollow-Nikkel* (1931)	30-22 <b>-3W</b>	2,000	118,667	21,038,500	38	"Chat"	3, 195 3, 507
				cPherson Co.		"Hunton"	3,500
Tantan Grands (1040)	0.04.15		produc			Simpson	2,657
Jester Creek (1949)	3-24-1E	400	no report	1,202	•	LansK.C.	
Sperling (1935)	23-22-2 <b>W</b>	400	18, 191	629,313	8	"Hunton"	3, 279
Pools or fields abandoned Total Harvey County		3,900	163,482	123,238 23,918,108	59		
		HASKE	LL COUNTY				
Pleasant Prairie (1954)	2-27-34W	40	1,394	1,394	1	Mississippian	5,041
		HODGEN	AN COUNTY	<del></del>			
Jetmore (1950)	24-22 <b>-24</b> W	80	7,509	64,856	2	Mississippian	4.590
Purdyville (1951)	3-24-24W	640	124,054	418,208	8	Penn. congl.	
			223,122	,	•	Mississippian	
Saw Log Creek (1953)	36-23-22W	40	8,476	15,024	1	Marmaton	4,284
Total Hodgeman County		760	140,039	498,088	11		
		JEFFER	SON COUNTY				
McLouth (1939)	4-10-20E		no report			McLouth	1,450
	,					Mississippian	

14-22E 13-24E 22-38W	480 240 720	4,083 no report 1,910 44 6,037		8 4 1 13		
13-24E	240 720 KEARN	no report 1,910 44 6,037		4 _1		
22-38 <b>W</b>	720 KEARN	1,910 44 6,037		_1		
22-38 <b>W</b>	720 KEARN	44 6,037		_1		
22-38 <b>W</b>	KEARN	6,037				
22-38 <b>W</b>	KEARN					
22-38 <b>W</b>		Y COUNTY				
	120					
1		31,298	445,999	3	"Patterson sand"	4,748
	KINGMA	N COUNTY				
27-10W	Comb	ined with Dres	sden			
-30-8 <b>W</b>		ined with Spiv	•			
-30-8 <b>W</b>		ined with Spiv	•			
-27-4W	240	2,344	64,019	6	"Miss. lime"	
-29-7 <b>W</b>	160	9,181	66,463	1	LansK.C.	3,727
		21,020		3	Viola	4,511
	1,200	158,431	808,477	29	Mississippian	
-28-5W	40	1,131	1,131	1 9	Mississippian	
-28-5W 28 <b>-</b> 11 <b>W</b>	360 800	52,132 57,307	76,437 3,162,288	37	Mississippian LansK.C.	3,600
-28-5 <b>W</b>	600	64,387	289,338	9	Mississippian	-
	1,120	142,671	686,271	33	LansK.C.	3,806
	-,	212,012	333,212	-	Mississippian	
					Viola	4,270
-27-5W	40	4,335	19,229	1	Mississippian	
-28-5₩	40	2,875	20,858	1	Mississippian	
-29-5 <b>W</b>	120	21,400	25,106	3		4,455
00 577	40	450	450		•	4,468
						4,483
-20-3W	160	17,520	172,909	-		4,406 4,475
-20_6W	120	16 369	16 369	3	-	3,691
	•			••	and other printer	-,
-30-8W	40	-	-	1	Mississippian	4,156
-30-8 <b>W</b>	Comb	ined with Spiv				
-29-9 <b>W</b>	800	70,387	70,387	20	Viola	4,502
			27,000			
	9,180	850,63 <b>9</b>	5,760,180	208		
	KIOWA	COUNTY				
28-17 <b>W</b>		no runs	179	1	"Miss. chert"	
- 11 W	40	2,990	48,223	<u>1</u>	"Miss. lime"	5,126
30-20 <b>W</b>						
	40	2,990	48,412	2		
30-20 <b>W</b>		2,990	48,412	2		
30-20 <b>W</b>			48,412	2		
30-20 <b>W</b>		re county	48,412	4		<del></del>
30-20 <b>W</b>	LABETT	no report	48,412	4		
30-20 <b>W</b> 33-19E 35-19E	LABETT	no report	48,412		"Wayside" Fort Scott	400
	-29-5W -28-9W -29-6W -30-8W -30-7W -30-8W -29-9W	-29-5W 40 -28-9W 160 -29-6W 120 -30-8W 3,300 -30-7W Comb -30-8W 40 -30-8W Comb -29-9W 800 	-29-5W 40 450 -28-9W 160 17,920 -29-6W 120 16,369 -30-8W 3,300 207,281 -30-7W Combined with Spiv -30-8W 40 1,018 -30-8W Combined with Spiv -29-9W 800 70,387	-29-5W 40 450 450 -28-9W 160 17,920 172,989 -29-6W 120 16,369 16,369 -30-8W 3,300 207,281 252,350 -30-7W Combined with Spivey -30-8W 40 1,018 1,018 -30-8W Combined with Spivey -29-9W 800 70,387 70,387 -29-9W 850,639 5,760,180  KIOWA COUNTY  28-17W no runs 179	-29-5W 40 450 450 1 -28-9W 160 17,920 172,989 4  -29-6W 120 16,369 16,369 3 -30-8W 3,300 207,281 252,350 46 -30-7W Combined with Spivey -30-8W 40 1,018 1,018 1 -30-8W Combined with Spivey -29-9W 800 70,387 70,387 20	Simpson   Simpson   Page 1   Page 2   Page 2



TABLE 56 .- Oil production in Kansas during 1954, continued

	well		bbls.	to end of 1954, bbls.	ducing wells	zoi	ducing ne, feet
b		320	1,010			"Bartlesville"	1,000
c		160	561				
d		400	2,087				
e		80	470				
f		480	20,417				
g		40	340				
h		160	1,032				
Dartnell	31-17E				7		
8		320	3,075				
ь		160	640				
Dennis	31-18E	10	57		1		
Edna	34-18E	320 '	5,020		5		
Idenbro		10	59		1		
Lake Creek	35-19E	40	2,546		2		
Mound Valley	32-18E				14	"U. Bartles-	
a		480	3,563			ville"	630
b		160	13,430			"L. Bartles-	
С		20	75			ville"	700
						Mississippian	900
Price (1917)	33-18E				24	"Bartlesville"	600
a		320	18,240				
b		480	6,486				
Miscellaneous			450		3		
Total Labette County		4,450	80,931	492,639	100		
		.,	,	recorded			
<del></del>		LANE	COUNTY				
North Fork (1952)	19-17-29W	80	2,150	10,974	2	LansK.C. Marmaton	4,333 4,400
	L	EAVENWO	ORTH COUNT	Y			
Ackerland (1941)	12-10-20E		no report			McLouth	1,370
Banker's Life (1941)	3-10-20E		no report			McLouth	1,450
Total Leavenworth Coun	ty		•	81,050 recorded			
		LINN	COUNTY				
Centerville* (1920)	10-21-22E				111	"Squirrel"	480
a	<b></b>	1,280	15,984			"Bartlesville"	720
b		10	56				
c		80	839				
Critzer	22- <b>22</b> E	10	140		1		
Goodrich-Parker (1922)	25-20-21E		=		81	"Squirrel"	600
a		320	896			"Bartlesville"	700
b		240	476				
c		900	6,568				
· · · · · · · · · · · · · · · · · · ·		10	56				
d							
d e LaCygne-Cadmus	20-24E	9,000	33,328			Bandera	150

b		10	56				
c		40	392				
d		640	12,156				
e		10	54				
Total Linn County		12,790	87,505	845,254 recorded	273		
		LYON	COUNTY				
Atyeo* (1925)	30-21-10E	800	128,887		57	"Bartlesville"	2 200
Bradfield	24-21-10E	480	123,613			Viola	2,500
Bradfield Northwest (1953)	13-21-10E	160	87,060			Viola	2,522
Bushong (1950)	26-16-10E	200	no report		1	"Hunton"	2,950
Fankhouser* (1926)	4-22-12E	720	30,657		63	"Bartlesville"	
Ly-Green* (1954)	5-22-11E	240	1,570		1	"Bartlesville"	
Ritchey-Moore	34-21-10E	80	5,285		1		-,
Rock Creek (1947)	32-21-11E	240	2,975		4	"Bartlesville"	1.900
Weich-Mohr (1953)	30-20-10E	160	3,379		1	"Bartlesville"	
Total Lyon County	50 10 102	2,880	383,426	6,772,602 recorded	165	24.403.410	_,
		McPHER	SON COUNTY	?			
Battle Hill (1945)	24-18-1 <b>W</b>	40	2,271	48,024	1	"Chat"	2,825
Battle Hill North (1948)	13-18-1 <b>W</b>	40	9,306	73,037	1	"Miss. lime"	2,811
Bitikofer (1940)	1-20-1W	160	2,402	218,252	4	"Chat"	2,885
Bitikofer North (1946)	25-19-1W		no report	9,043		"Miss. lime"	
Bonaville (1949)	33-17-2W		no runs	16,153	2	Simpson	3,557
Burk (1948)	7-18-1W	120	9,957	102,501	3	Mississippian	
Canton North (1936)	26-18-1W	540	28,872	674,145	12	"Chat"	2,803
Chindberg (1929)	18-19-2 <b>W</b>	500	20,541	1,815,435	11	LansK.C.	2,363
Coons (1940)	13-19-1 <b>W</b>	80	2,531	10,427	2	"Chat"	3,007
Crowther (1942)	26-17-1W	1,500	115,627	3, 103, 421	41	"Chat"	2,778
Georob (1947)	31-17-1W	1,500	275,017	2,144,464	42	"Chat"	2,665
Graber* (1934)	32-21-1W	2,300	612,256	11,923,348	106	Misener	3,323
,		-,	,	,,		"Hunton"	3,274
Graber North (1951)	4-21-1W	40	1,378	1,378	1	Mississippian	
Groveland (1953)	10-20-4W	40	7,159	12,147	ī	Viola	3,728
Groveland South (1953)	14-20-4W	300	62,112	63,306	8	Viola	3,719
Gypsum Creek* (1944)	4-17-1W	500	23,891	425,079	15	"Chat"	2,619
Gypsum Creek South (1953)	9-17-1W	40	788	3,215	1	Mississippian	
Hemne (1940)	21-17-1W	800	48,498	1,511,758	15	"Chat"	2,658
Hollow-Nikkel* (1931)	30-22-3W		· ·	with Harvey Cou		"Chat"	3,195
(2002)				· · ·	•	"Hunton"	3,507
						Simpson	3,500
Jenday (1944)	1-19-2W	1,000	36,895	880,648	27	"Chat"	2,984
Johnson (1932)	35-19-3W	960	45,597	3,415,201	10	"Chat"	3,032
Johnson South (1950)	11-20-3W		no report	8,153		Mississippian	
Lindsborg (1938)	8-17-3W	5,400	389,950	7,643,561	102	Viola	3,352
		-				Simpson	3,360
Lively (1953)	28-19-2W	2,000	498,258	568,935	79	LansK.C. "Miss. lime"	2,324 2,955
McPherson (1926)	29-18-2W	1,700	79,138	1,657,136	37	LansK.C.	2,340
	20 IU-2W	2,100	. 5, 200	2,001,200	٥,	"Chat"	2,967
						Viola	3, 140
Maxwell (1948)	17-18-1 <b>W</b>	160	5,244	35,295	4	"Miss. lime"	
Paden (1943)	10-18-1 <b>W</b>	640	187,564	2,827,498	42	"Chat"	2,752
(1010)	10-10-1W	040	101,304	2,021,430	76	Viola	3,153
Paden South (1950)	21-18-1 <b>W</b>	300	28,447	69,267	8	Mississippian	
Reuben (1949)		80			2	Simpson	3,675
(1020)	17-18-2W	80	2,934	25,335	4	Pimbeon	<b>J</b> ,015



TABLE 56 .- Oil production in Kansas during 1954, continued

Roxbury (1938)   18-17-1W   1,000   71,811   3,153,556   29 "Chat"   2,8 Simpson   3,8 Simpson   3,8 Simpson   3,3 Simpson   3,3 Simpson   3,9 Simpson   3	Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Dept to pro ducin one, fee
Roxbury (1938)   18-17-1W   1,000   71,811   3,153,556   29   "Chat"   2, Simpson   3, Roxbury South (1942)   30-17-1W   240   7,850   330,076   4   "Chat"   2, Roxbury Southeast (1943)   20-17-1W   240   11,994   104,599   4   "Chat"   2, Voshell (1929)   9-21-3W   3,200   246,181   28,777,368   57   "Chat"   2, Viola   3, Welch-Bornholdt* (1924)   35-20-6W   3,200   61,183   61,183   9   Mississippian   3, Total McPherson County   32-16-W   300   61,183   61,183   9   Mississippian   3, Total McPherson County   33-18-4E   160   21,652   4   Kanasa City   1, Mississippian   2, Cedar Creek (1950)   31-20-5E   10 report   2,182   1 Viola   2, Cedar Creek (1950)   31-20-5E   10 report   2,182   1 Viola   2, Cedar Creek (1950)   31-22-4E   160   27,170   45,561   3 Viola   2, Cedar Creek (1950)   31-22-4E   640   43,550   55,738   10   Mississippian   2, Cedar Creek (1950)   31-22-4E   640   43,550   55,738   10   Mississippian   2, Cedar Creek (1950)   31-22-4E   640   43,550   55,738   10   Mississippian   2, Cedar Creek (1950)   18-21-5E   640   2, 345   5 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2, Sedar (1942)   33-19-1E   80   1,637   1,637   1 Viola   2,	Ritz-Canton (1929)	1-20-2 <b>W</b>	13,500	755,231	43,933,295	195		2,93
Simpson   Simp	Porhum (1938)	18_17_1W	1 000	71 811	3 153 556	20		3,41 2,68
Roxbury South (1942)   30-17-1W   240   7,850   330,076   4 "Chat"   2,4	toxbury (1936)	10-11-14	1,000	11,011	3, 133, 330	23		3, 27
Roxbury Southeast (1943)   20-17-1W   240   11,994   104,599   4 "Chat"   2, Voshell (1929)   9-21-3W   3,200   246,181   28,777,368   57 "Chat"   3, Windom (1953)   30-19-5W   300   61,183   61,183   977   Mississippian   3.	Roxbury South (1942)	30-17-1W	240	7.850	330.076	4	•	2,65
Voshell (1929)								2,66
Welch-Bornholdt* (1924)   35-20-6W   3,200   370,684   12,363,846   102   "Chat"   3,3   30-19-5W   300   61,183   61,183   9   Mississippian 3,4   128,010,085   977   Markinon County   MARION COUNTY     Markinon County   Markinon County   Markinon County   Markinon County   Markinon County   Markinon County   Markinon County   Markinon County   Markinon County   Mississippian 2,4			3,200			57	"Chat"	3,09
Mississippian   30-19-5W   300   61,183   61,183   9   977   Mississippian   3,					•		Viola	3,30
MARION COUNTY	Welch-Bornholdt* (1924)	35-20-6W	3,200	370,684	12,363,846	102	"Chat"	3, 37
Antelope (1947)	Windom (1953)	30-19-5W	300	61,183	61,183	9	Mississippia	n 3,40
Antelope (1947)	Total McPherson County		42,420	4,021,567	128,010,085	977	,	
Antelope North (1948)			MARIO	ON COUNTY				
Antelope North (1948)	Antelope (1947)	33-18-4E		no report			Miss. "chat"	2,380
Biscuit Hill (1952) 33-21-4E no report Cedar Creek (1950) 31-20-5E no report 2,182 1 Viola 2,5 Covert-Sellers (1920) 28-21-4E 800 83,497 43 Viola 2,5 Covert-Sellers (1920) 28-21-4E 800 83,497 43 Viola 2,5 Covert-Sellers (1920) 34-18-2E 160 27,170 45,561 3 Viola 2,5 Covert-Sellers (1953) 34-18-2E 160 27,170 45,561 3 Viola 2,5 Covert-Sellers (1953) 31-22-4E 640 43,550 55,738 10 Mississippian 2,4 Edibing* (1918) 18-23-4E 160 4,974 6 Kansas City 2,1 Mississippian 2,4 Viola 2,5 Covert-Sellers (1918) 7-23-4E 160 4,974 6 Kansas City 2,1 Mississippian 2,4 Viola 2,5 Covert-Sellers (1947) 27-22-4E 240 5,722 69,230 4 Miss. "chat" 2,5 Fanska (1943) 6-17-1E no report 6 Miss. "chat" 2,6 Fanska (1943) 6-17-1E no report 6 Miss. "chat" 2,6 Fillsboro (1928) 7-19-3E 640 21,802 9 Mississippian 2,4 Viola 2,5 Covert-Sellers (1920) 18-21-5E 640 21,802 9 Mississippian 2,4 Viola 2,5 Covert-Sellers (1946) 27-19-1E 160 5,154 93,683 4 Mississippian 2,4 Covert-Sellers (1942) 35-17-4E 120 2,470 13 Mississippian 2,3 Lost Springs East (1942) 35-17-4E 120 2,470 13 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Mississippian 2,3 Mississippian 2,3 Mississippian 2,4 Mississippian 2,4 Mississippian 2,4 Mississippian 2,4 Mississippian 2,4 Mississippian 2,4	Antelope North (1948)	28-18-4E	160	21,652		4	Kansas City	1,84
Cedar Creek (1950)   31-20-5E							Mississippia	n 2,40
Covert-Sellers (1920) 28-21-4E 800 83,497 43 Viola 2,3 Durham (1953) 34-18-2E 160 27,170 45,561 3 Viola 2,5 Durham South (1954) 3-19-2E 240 1,644 1,657 1 Simpson 3,0 Edmonds (1953) 31-22-4E 640 43,550 55,738 10 Mississippian 2,4 Elbing* (1918) 18-23-4E 160 4,974 6 Kansas City 2,1 Mississippian 2,4 Viola 2,5 Elbing East* 27-23-4E no report Elbing North (1947) 27-22-4E 240 5,722 69,230 4 Miss. "chat" 2,6 Fanska (1943) 6-17-1E no report 6 Miss. "chat" 2,6 Hillsboro (1920) 18-21-5E 640 2,345 5 Viola 2,3 Hillsboro (1928) 7-19-3E 640 21,802 9 Mississippian 2,8 Lehigh (1946) 27-19-1E 160 5,154 93,683 4 Mississippian 2,8 Lehigh North (1953) 23-19-1E 80 1,637 1,637 1 Viola 2,8 Lost Springs* (1926) 22-17-4E 5,200 311,761 182 Mississippian 2,8 Lost Springs East (1942) 35-17-4E 120 2,470 3 Miss. "chat" 2,5 Lost Springs East (1942) 35-17-5E 120 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Gast (1953) 30-17-5E 120 627 1 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Fast (1949) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Fast (1949) 10-18-4E 120 2,470 10,500 10,500 10,500 10,500 10,500 10,500 10,500 10,500 10,500 10,500 10,500 10,	Biscuit Hill (1952)	33-21-4E		no report				2,269
Durham (1953)   34-18-2E   160   27,170   45,561   3   Viola   2,8	Cedar Creek (1950)	31-20-5E		no report	2,182			2,56
Durham South (1954)   3-19-2E   240   1,644   1,657   1   Simpson   3,0	• •			-				2,40
Edmonds (1953) 31-22-4E 640 43,550 55,738 10 Mississippian 2,4				•				2,899
Elbing* (1918) 18-23-4E 160 4, 974 6 Mississippian 2, 4 Viola 2, 5 Elbing East* 27-23-4E 160 5, 722 69, 230 4 Miss. "chat" 2, 6 Miss. (1943) 6-17-1E 160 70 report 6 Miss. "chat" 2, 6 Mississippian 2, 8 Mississippian 2, 9 M	• •			•	•		•	3,039
Mississippian 2,4   Viola 2,5					55,738			
Viola   2,5	Elbing* (1918)	18-23-4E	160	4,974		6		2,120
Elbing East * 27-23-4E							• • • • • • • • • • • • • • • • • • • •	2,400 2,530
Fanska (1943) 6-17-1E no report 6 Miss. "chat" 2,6 Florence (1920) 18-21-5E 640 2,345 5 Viola 2,3 Hillsboro (1928) 7-19-3E 640 21,802 9 Mississippian 2,4 Viola 2,8 Lehigh (1946) 27-19-1E 160 5,154 93,683 4 Mississippian 2,8 Lehigh North (1953) 23-19-1E 80 1,637 1,637 1 Viola 3,2 Lost Springs* (1926) 22-17-4E 5,200 311,781 182 Mississippian 2,3 Lost Springs East (1942) 35-17-4E 120 2,470 3 Miss. "chat" 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Nelson West* (1953) 30-17-5E 120 627 1 Mississippian 2,2 Peabody (1920) 9-22-4E 20 134 c 480 20,290 Propp 19-4E 320 8,141 35,624 7 Quarry Siding (1953) 16-19-4E 160 6,939 3 Mississippian 2,3 Shank (1952) 12-22-3E 160 18,482 62,193 6 Mississippian 2,4 Wenger (1947) 11-21-4E 640 103,520 782,320 26 "Hunton" 2,7 Youk (1954) 20-18-2E no report none Viola 3,0 Total Marion County 12,320 724,777 33,310,229 351	Elbing East*	27-23-4E		no report				
Florence (1920) 18-21-5E 640 2,345 5 Viola 2,3 Hillsboro (1928) 7-19-3E 640 21,802 9 Mississippian 2,4 Viola 2,8 Lehigh (1946) 27-19-1E 160 5,154 93,683 4 Mississippian 2,8 Lehigh North (1953) 23-19-1E 80 1,637 1,637 1 Viola 3,2 Lost Springs* (1926) 22-17-4E 5,200 311,781 182 Mississippian 2,3 Lost Springs East (1942) 35-17-4E 120 2,470 3 Miss. "chait" 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Nelson West* (1953) 30-17-5E 120 627 1 Mississippian 2,3 Nelson West* (1953) 9-22-4E 22 Viola 2,5  a 700 26,435 b 20 134 c 480 20,290 Propp 19-4E 320 8,141 35,624 7 Quarry Siding (1953) 16-19-4E 160 6,939 3 Mississippian 2,3 Shank (1952) 12-22-3E 160 18,482 62,193 6 Mississippian 2,4 Wenger (1947) 11-21-4E 640 103,520 782,320 26 "Hunton" 2,7 Youk (1954) 20-18-2E no report none Viola 3,0 Total Marion County 12,320 724,777 33,310,229 351	Elbing North (1947)	27-22-4E	240	5,722	69,230	4	Miss. "chat"	2,439
Hillsboro (1928) 7-19-3E 640 21,802 9 Mississippian 2,4 Viola 2,8 Lehigh (1946) 27-19-1E 160 5,154 93,683 4 Mississippian 2,8 Lehigh North (1953) 23-19-1E 80 1,637 1,637 1 Viola 3,2 Lost Springs* (1926) 22-17-4E 5,200 311,781 182 Mississippian 2,3 Lost Springs East (1942) 35-17-4E 120 2,470 3 Miss. "chat" 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Nelson West* (1953) 30-17-5E 120 627 1 Mississippian 2,2 Viola 2,5 a 700 26,435 b 20 134 c 20	Fanska (1943)	6-17-1E		no report		6	Miss. "chat"	2,680
Viola 2,8 Lehigh (1946) 27-19-1E 160 5,154 93,683 4 Mississippian 2,8 Lehigh North (1953) 23-19-1E 80 1,637 1,637 1 Viola 3,2 Lost Springs* (1926) 22-17-4E 5,200 311,781 182 Mississippian 2,3 Lost Springs East (1942) 35-17-4E 120 2,470 3 Miss. "chai" 2,3 Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Lost Springs Southeast (1948) 30-17-5E 120 627 1 Mississippian 2,2 Peabody (1920) 9-22-4E 20 627 1 Mississippian 2,2 Peabody (1920) 9-22-4E 20 134 c 480 20,290 Propp 19-4E 320 8,141 35,624 7 Quarry Siding (1953) 16-19-4E 160 6,939 3 Mississippian 2,3 Shank (1952) 12-22-3E 160 18,482 62,193 6 Mississippian 2,4 Wenger (1947) 11-21-4E 640 103,520 782,320 26 "Hunton" 2,7 Youk (1954) 20-18-2E no report none Viola 3,0 Total Marion County 12,320 724,777 33,310,229 351		18-21-5 <b>E</b>	640	2,345		5	Viola	2,300
Lehigh (1946) 27-19-1E 160 5, 154 93, 683 4 Mississippian 2, 8 Lehigh North (1953) 23-19-1E 80 1, 637 1, 637 1 Viola 3, 2 Lost Springs* (1926) 22-17-4E 5, 200 311, 781 182 Mississippian 2, 8 Lost Springs East (1942) 35-17-4E 120 2, 470 3 Miss. "chat" 2, 3 Lost Springs Southeast (1948) 10-18-4E 480 6, 811 19, 799 4 Mississippian 2, 3 Nelson West* (1953) 30-17-5E 120 627 1 Mississippian 2, 2 Peabody (1920) 9-22-4E 20 134 c c 480 20, 290 Propp 19-4E 320 8, 141 35, 624 7 Quarry Siding (1953) 16-19-4E 160 6, 939 3 Mississippian 2, 3 Mississippi	Hillsboro (1928)	7-19-3E	640	21,802		9		
Lehigh North (1953) 23-19-1E 80 1,637 1,637 1 Viola 3,2  Lost Springs* (1926) 22-17-4E 5,200 311,781 182 Mississippian 2,3  Lost Springs East (1942) 35-17-4E 120 2,470 3 Miss. "chat" 2,3  Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3  Nelson West* (1953) 30-17-5E 120 627 1 Mississippian 2,2  Peabody (1920) 9-22-4E 20 134  c 700 26,435  b 20 134  c 480 20,290  Propp 19-4E 320 8,141 35,624 7  Quarry Siding (1953) 16-19-4E 160 6,939 3 Mississippian 2,3  Mis								2,820
Lost Springs* (1926) 22-17-4E 5,200 311,781 182 Mississippian 2,3  Lost Springs East (1942) 35-17-4E 120 2,470 3 Miss. "chai" 2,3  Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3  Nelson West* (1953) 30-17-5E 120 627 1 Mississippian 2,2  Peabody (1920) 9-22-4E 22 Viola 2,5  a 700 26,435 b 20 134 c 480 20,290  Propp 19-4E 320 8,141 35,624 7  Quarry Siding (1953) 16-19-4E 160 6,939 3 Mississippian 2,3					•			
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Lost Springs Southeast (1948) 10-18-4E 480 6,811 19,799 4 Mississippian 2,3 Nelson West* (1953) 30-17-5E 120 627 1 Mississippian 2,2 Viola 2,5 a 700 26,435 b 20 134 c 20 134 c 20 Propp 19-4E 320 8,141 35,624 7 Quarry Siding (1953) 16-19-4E 160 6,939 3 Mississippian 2,3 Mississippian 2,3 Wenger (1947) 11-21-4E 640 103,520 782,320 26 Mississippian 2,4 Wenger (1947) 20-18-2E no report none William None Viola 3,0 Total Marion County 12,320 724,777 33,310,229 351			•	•				
Nelson West* (1953) 30-17-5E 120 627 1 Mississippian 2,2 Peabody (1920) 9-22-4E 20 22 Viola 2,5 a 700 26,435 b 20 134 c 480 20,290 Propp 19-4E 320 8,141 35,624 7 Quarry Siding (1953) 16-19-4E 160 6,939 3 Mississippian 2,3 Shank (1952) 12-22-3E 160 18,482 62,193 6 Mississippian 2,4 Wenger (1947) 11-21-4E 640 103,520 782,320 26 "Hunton" 2,7 Youk (1954) 20-18-2E no report none Viola 3,0 Total Marion County 12,320 724,777 33,310,229 351								
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a 700 26,435 b 20 134 c 480 20,290 Propp 19-4E 320 8,141 35,624 7 Quarry Siding (1953) 16-19-4E 160 6,939 3 Mississippian 2,3 Shank (1952) 12-22-3E 160 18,482 62,193 6 Mississippian 2,4 Wenger (1947) 11-21-4E 640 103,520 782,320 26 "Hunton" 2,7 Youk (1954) 20-18-2E no report none Viola 3,0 Total Marion County 12,320 724,777 33,310,229 351			120	627		_		
b 20 134 20, 290 20, 2		9-22-4E	700	00 405		22	Viola	2,500
c         480         20,290           Propp         19-4E         320         8,141         35,624         7           Quarry Siding (1953)         16-19-4E         160         6,939         3         Mississippian 2,3           Shank (1952)         12-22-3E         160         18,482         62,193         6         Mississippian 2,4           Wenger (1947)         11-21-4E         640         103,520         782,320         26         "Hunton" 2,7           Youk (1954)         20-18-2E         no report         none         Viola         3,0           Total Marion County         12,320         724,777         33,310,229         351								
Propp         19-4E         320         8, 141         35,624         7           Quarry Siding (1953)         16-19-4E         160         6,939         3         Mississippian 2,3           Shank (1952)         12-22-3E         160         18,482         62,193         6         Mississippian 2,4           Wenger (1947)         11-21-4E         640         103,520         782,320         26         "Hunton" 2,7           Youk (1954)         20-18-2E         no report         none         Viola         3,0           Total Marion County         12,320         724,777         33,310,229         351								
Quarry Siding (1953)     16-19-4E     160     6,939     3     Mississippian 2,3       Shank (1952)     12-22-3E     160     18,482     62,193     6     Mississippian 2,4       Wenger (1947)     11-21-4E     640     103,520     782,320     26     "Hunton" 2,7       Youk (1954)     20-18-2E     no report     none     Viola     3,0       Total Marion County     12,320     724,777     33,310,229     351		10_4F		•	25 604	7		
Shank (1952)         12-22-3E         160         18,482         62,193         6 Mississippian 2,4           Wenger (1947)         11-21-4E         640         103,520         782,320         26 "Hunton" 2,7           Youk (1954)         20-18-2E         no report none         viola         3,0           Total Marion County         12,320         724,777         33,310,229         351					33,024		Miggiocinnia	2 309
Wenger (1947)     11-21-4E     640     103,520     782,320     26 "Hunton"     2,7       Youk (1954)     20-18-2E     no report     none     Viola     3,0       Total Marion County     12,320     724,777     33,310,229     351					62 109	_	• • •	
Youk (1954)         20-18-2E         no report         none         Viola         3,0           Total Marion County         12,320         724,777         33,310,229         351					•			2,770
Total Marion County 12,320 724,777 33,310,229 351	- , ,		010			20		3,017
		20 10 25	12 320			351	,	0,02
***************************************	Total marion county		,		recorded	001		

Adams Ranch (1948) 8-35-30W no runs 1,362



Adams Ranch East (1947)	36-34-30W	180	13,082	61,291	4		5,346
Bond (1954)	32-33-30W	40	3,749	3,749	1		5,619
Bromwell (1952)	7-34-29W		no runs	2,878	1		5,901
Bruno (1953)	20-33-30₩	40	13,946	22,493	1		5,656
Bruno Northeast (1953)	16-33-30W	40	11,730	16,409	1		5,721
Kismet East (1953)	30-33-30W		no report	none		Morrowan	5,645
McKinney* (1950)	2-34-26W	1,200	21,945	45,273	14	Mississippian	5,762
Novinger (1951)	26-33-30W	2,300	429,535	1,088,353	31		5,270
			18,771		2		<b>5,7</b> 65
			16,250		_1	<b>M</b> ississippian	5,803
Total Meade County		3,800	529,008	1,241,808	57		
		MIAM	I COUNTY				
Beagle	19-22E	120	713		2		
Block	18-24E				6	"Squirrel"(?)	
2		40	, 365				
b		120	728				
Louisburg	17-25E				88	Knobtown	270
2		640	29,708			"Peru"	430
ь		160	437			"Squirrel"	600
e		640	12,009				
_ d		10	87				
Paola-Rantoul* (1860)	17-23E				1,038	Knobtown	300
2		3,400	321,146			Hepler	400
ь		500	8,620			"Peru"	500
C		320	521			"Squirrel"	600
d		1,800	123,662			"Bartlesville"	700
e		1,800	11,671				
f		1,900	86,625				
g		480	36,563				
h		40	111				
i		80	420				
t		1,600	16,216				
k		320	878				
1		240	530				
m.		20	86				
n		20	280				
0		<b>24</b> 0	511				
P		1,200	30,122				
q		160	2, 150				
r		10	21				
8			361				
t		20	210				
u W u		160	420				
Miscellaneous			582		7		
Total Miami County		16,040	685,753	15,217,464	1,141		
				recorded			
		MONTGO	MERY COUNT	Y			
Brewster	32-16E				15	"Bartlesville"	900
<b>a</b>		240	1,910			Arbuckle	
b		80	166				
C Comme		750	<b>24,33</b> 5				
Caney	35-14E				32	"Bartlesville"	1,320
		40	295				
b		640	10,566				
Coffeyville-Cherryvale* (1902)	33-17E				375	"Wayside"	400
		3,500	47,373			Fort Scott	600
b		240	438			"Bartlesville"	1,000

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing zone, feet
c		40	149			Arbuckle	1,300
d		640	11,651				
e		240	2,779				
f		40	389				
g		640	37,765				
h		320	2,282				
i		160	1,122				
j		40	360				
k		3,400	24,039				
1		320 10	7,935 <b>3</b> 6				
m n		40	228				
Coleman (1921)	28-32-14E	640	4,369		15	Arbuckle	1,700
Elk City	31-13E	320	1,624		5	AIGUCAE	1,100
Jefferson-Sycamore (1903)	18-33-15E	020	1,021		612	"Weiser"	800
a	10 00 102	20	336		012	"Bartlesvi	
<u>-</u> b		10	129			2-10012	2,000
c		320	122,539				
d		320	2,328				
e		640	2,050	,			
f		100	392				
g		240	3,000				
h		320	8,655				
i		320	13,798				
j		8,000	239,253				
k		240	5,712				
1		160	1,526				
m		10	77				
n		160	831				
0		120	758				
p		160	2,834				
q		480	228				
r		1,280	47,945				
8		160	417				1-11 050
Neodesha*	31-16E				39	"Bartlesvil	le" 950
<b>a</b>		640	2,634				
b		320	798				
c d		640 480	19,150				
		480	1,250 419				
e Sorghum Hollow	32-14E	40	413		68	"Weiser"	800
a a	32-146	2,000	75,691		00	Welber	•••
b		240	2,809				
Tyro (1904)	13-35-14E	270	2,000		69	"Bartlesvil	le" 1. 250
a a		40	362		-		
b		2,600	17,118				
c		160	1,294				
Wayside-Havana* (1904)	34-14E		-,		827	"Wayside"	575
a (2001)		160	5,210			"Weiser"	700
b		320	1,662			"Bartlesvil	le" 1,200
c		160	299				,
d		8,400	151,011				
•		160	1,168				



f		160	4,867				
g		120	1,659				
Miscellaneous			2,133		13		
Total Montgomery County		42,540	922,153	42,709,027 recorded	2,070		
		MORRI	S COUNTY				-
Burdick (1949)	15-17-5E	120	2,977	26,311	3	Mississippian	2,220
John Creek (1953)	26-15-9E	160	2,479	2,479	7	Viola	3,090
Nelson (1928)	30-17-5E		no report			Mississippian	2,295
Nelson West (1953)	30-17-5E	120	688	688	1	Mississippian	2,297
Three Mile Creek (1950)	26-16-5E	240	8,617	82,611	4	Mississippian	2,208
Three Mile Creek South (1950)	35-16-5E	320	23,642	106,318	_8_	Mississippian	2,183
Total Morris County		960	38,403	218,407	24		
•		MORTO	N COUNTY				
Boehm (1951)	14-33-42W	120	5,187	5,187	3	Morrowan	
Interstate (1954)	29-34-43W	300	19,358	19,358	7	Morrowan	4,170
Richfield (1948)	17-32-40W		no runs	829	1	Basal Penn.	
					_	(Atokan)	4,990
Total Morton County		420	24,545	25,374	11		
		NEMAH	A COUNTY				
Sabetha (1950)	13-2-14E	160	9,959	47,618	2	"Hunton"	2,826
Strahm (1948)	27-2-14E				4	"Hunton"	2,879
		120	450	126,662		Viola	3,559
b		160	23,720				
Strahm East (1953)	26-2-14E	_80	3,441	7,195	1	"Hunton"	2,826
Total Nemaha County		520	37,570	181,475	7		
				recorded			
		NEOSH	O COUNTY				
Erie (1903)	28-20E				204	"Bartlesville"	650
2		3,800	75,756				
b		480	2,796				
"Graham"		80	268		1		
Humboldt-Chanute*	27-18E				958	"Bartlesville"	700
		120	2,301				
ъ		240.	961				
c		8,000	444,968				
d		320	4,212				
e f		320 480	314 14, 194				
			•				
-							
g		480 320	4,652				
g h		320	2,267				
<b>g</b> h i		320 160	2,267 1,081				
g h i j		320 160 240	2,267 1,081 1,234				
g h i j k		320 160 240 640	2,267 1,081 1,234 14,169				
g h i j		320 160 240 640 10	2, 267 1, 081 1, 234 14, 169 59				
g h i j k l		320 160 240 640 10 640	2, 267 1, 081 1, 234 14, 169 59 6, 675				
g h i j k l m	27-21 F	320 160 240 640 10 640 240	2, 267 1, 081 1, 234 14, 169 59 6, 675 2, 234		5		
g h i j k l m n	27-21E 30-30-18E	320 160 240 640 10 640 240	2, 267 1, 081 1, 234 14, 169 59 6, 675 2, 234 2, 872		5 10	"Bartlesville"	850
g h i j k l m	27-21E 30-30-18E 29-21E	320 160 240 640 10 640 240	2, 267 1, 081 1, 234 14, 169 59 6, 675 2, 234		5 10 70	"Bartlesville" "Bartlesville"	
g h i j k l m n Kimball Morehead	30-30-18E	320 160 240 640 10 640 240	2, 267 1, 081 1, 234 14, 169 59 6, 675 2, 234 2, 872 9, 867		10		850 550
g h i j k l m n Kimball Morehead St. Paul-Walnut*	30-30-18E	320 160 240 640 10 640 240 20 480	2, 267 1, 081 1, 234 14, 169 59 6, 675 2, 234 2, 872		10		



TABLE 56.-Oil production in Kansas during 1954, continued

Dept to pro ducin		No. pro- ducing wells	Cumulative production to end of 1954, bbls.	1954 pro- duction, bbls.	Area, acres	Location of dis- covery well	Pool or field name and year of discovery
			· · · · · · · · · · · · · · · · · · ·	2,971	640		d
				236	20		e
		10		5,208	640	29-17 <b>E</b>	Thayer
		10				28-21 <b>E</b>	Trent
				2,903	480		<b>a</b>
				802	40		b
75	"Bartlesville'	12			000	28-18 <b>E</b>	Urbana
				3,010	320		a b
		_		655	40		-
		5	00 000 500	745	01 100		Miscellaneous
		1,285	22,982,588 recorded	617,628	21,190		Total Neosho County
				COUNTY	NESS		
4,428	"Warsaw"	42	3,149,105	231,233	5,200	7-18-25 <b>W</b>	Aldrich (1929)
	Mississippian	4	7,580	7,580	160	23-17-25 <b>W</b>	Aldrich Northeast (1954)
4,436	Fort Scott	5	374,599	24,005	300	22-16-25W	Arnold (1943)
4,528	"Warsaw"		314,333	24,000	000	22 10 20 11	1111014 (1010)
•	Mississippian		none	no report		28-17-2 <b>6₩</b>	Kansada West (1950)
4,549	"Waresw"	2	56,158	no runs		31-19-25W	Manteno (1945)
4, 343	M ST. STA.	2	7,581	no runs		01-10-20W	Pools or fields abandoned
		53	3,595,023	262,818	5,660		Total Ness County
				N COUNTY	NORTO		
3,778	Arbuckle Reagan	106	730,547	688,853	2,180	36-3-24W	Norton (1953)
3, 297	LensK.C.	6	319,712	36,638	340	32-5-20 <b>W</b>	Ray* (1940)
3,575	Arbuckie						
3,540	Reagan						
3,544	Arbuckie		none	no report		13-5-21 <b>W</b>	Ray North (1954)
3,605	Arbuckle	2	5,601	5,445	80	22-5-21W	Ray Northwest (1953)
<b>3</b> , 650	Arbuckle	5	155,875	24,807	200	26-5-21 <b>W</b>	Ray West (1945)
			32,054				Pools or fields abandoned
		119	1,243,789	755,743	2,800		. Total Norton County
			•	E COUNTY	OSBOR		
2,986		12	246,170	90,155	640	23-10-15 <b>W</b>	Ruggles (1952)
3,024	Lans K. C.						
3, 394	Penn, congl.						
				E COUNTY	PAWNE		
3,787		1	240,495	no runs		31-20-15 <b>W</b>	Ash Creek* (1947)
3,779		1	107,321	4,478	40	11-21-16 <b>W</b>	Ash Creek Southwest (1947)
3, 853		24	527,349	153,834	1,800	30-23-15 <b>W</b>	Benson (1945)
4,020			none	no report		4-20-18W	Conkling (1953)
3,956		8	125,185	75, 292	680	22-22-15 <b>W</b>	Dunes (1953)
3,728		1	15,268	9,063	40	33-22-15 <b>W</b>	Dunes Southwest (1953)
3,525		-	169,385		400	1-2 <b>2</b> -16W	Evers (1951)
3,814		2		16,396			
	Simpson	4		29,401			
3,861 3,908	ompo	3		25,907			

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Evers Northeast (1953)	31-21-15W	80	3,240	6,626	2	Arbuckle	3,915
Garfield (1947)	17-23-17 <b>W</b>	3,200	157,641	165,453	43	PennMiss. contact	4,279
						Kinderhookian	
Garfield Northeast (1954)	3-23-17W	160	3,942	3,942	4	Mississippian	
Garfield Southwest (1954)	30-23-17W		no report	none		Mississippian	4, 317
						Misener	4, 347
Hearn (1953)	35-23-15W	40	3,592	3,592	1	Lans,-K.C.	3,83
Jay (1954)	3-23-15 <b>W</b>	80	4, 181	4,181	2	Simpson	4,02
Larned (1949)	28-21-16W	2,600	548,917	945,175	55	Arbuckle	3,87
Lovett (1954)	35-22-15W	40	1,650	1,650	1	LansK.C.	3,68
Oro (1953)	9-20-19W	340 40	48,337	87,523	8 1	Penn. congl.	4,20
Oro West (1953)	8-20-19W 13-20-16W	3,000	1,767 <b>301</b> ,316	3,891 3,657,275	60	Penn. congl. Arbuckle	4,12
Pawnee Rock* (1936) Rutherford (1946)	8-20-16W	300	16,900	282,935	6	Arbuckle	3, 81
Ryan* (1945)	35-19-16W	420	29,166	513,844	8	Arbuckle	3,65
Ryan Southeast (1945)	12-20-16W	300	14, 265	316,750	9	Arbuckle	3,68
Shady (1948)	35-22-16W	-	no runs	6,038	2	Arbuckle	4,06
Shady Southwest (1953)	3-23-16W	120	24,989	26,047	3	LansK.C.	3,70
Shiley (1954)	14-20-20W	200	28,591	28,591	5	Penn. congl.	4, 17
Shiley East (1954)	18-20-19W	80	3,021	3,021	2	"Cherokee"	4,22
Sweeney (1953)	8-21-15 <b>W</b>	300	6,772	6,772	6	Arbuckle	3,83
Sweeney West (1954)	6-21-15 <b>W</b>		ined with Swe				
Total Pawnee County		14,260	1,512,658	7,255,325	262		
		PHILL	P8 COUNTY				
Beckman (1951)	3-4-19W	40	2,238	7,519	1	LansK.C.	3,20
Bow Creek (1939)	25-5-18W	120	5,499	73,016	3	LansK.C.	3,11
Dayton (1941)	36-2-19W	1,540	51,437	1,108,829	17	LansK.C.	3,43
Fredericksburg (1952)	4-1-18W	40	2,858	9,157	1	LansK.C.	3,45
Glenwood (1951)	21-1-17W	40	3,477	16,187	1	Lans, -K.C.	3,59
Hansen (1943)	14-5-20W	1,100	212,735	2,371,781	36	LansK.C. Arbuckle	3,36 3,53
Hansen West (1952)	15-5-20W	40	6,353	16,794	1	Arbuckle	3,54
Huffstutter (1949)	6-2-18W	3,600	357,586	3,003,143	131	LansK.C.	3,44
Huffstutter Southwest (1951)	23-2-19W	200	28,250	97,492	5	LansK.C.	3, 45
Kent (1951)	22-1-18W		no report	1,472	_	LansK.C.	3,43
Logan (1945)	3-5-20W	420	32,287	411,016	12	LansK.C.	3,14
				•		Arbuckle	3,38
Mont Sol (1954)	1-4-19W	200	30,846	30,846	5	LansK.C.	3, 25
Ray* (1940)	32-5-20W	4,000	1,257,762	16,915,565	148	LansK.C.	3,29
						Arbuckle	3,57
						Reagan	3,54
Slinker (1951)	25-4-20W	200	25, 395	85,051	5	LansK.C.	3,21
Stuttgart (1950)	14-3-19W	600	41,373	228,319	12	LansK.C.	3, 14
Stuttgart South (1951)	23-3-19W	40 40	4,122	17,410	1	LansK.C.	3, 29
Wolf Creek (1954) Pools or fields abandoned	16-4-19W	40	455	455 1,596	1	LansK.C.	3,21
LOOIS OF HEIGH SPERIODIEG		12,220	2,062,673	24, 395, 648	380		
Total Phillips County		10,000	2,002,010	21,000,010			
Total Phillips County		DDAM	T COINTY				
			T COUNTY			_	
Elowout (1952)	8-27-14W	40	2, 111	6,345	1	LansK.C.	•
Elowout (1952) Cairo North (1954)	6-28-11 <b>W</b>	<b>40</b> 80	2,111 16,140	16,140	2	Viola	4,31
Elowout (1952) Cairo North (1954)		40	2, 111	•		Viola Mississippian	4, 31 4, 25
Total Phillips County  Blowout (1952) Cairo North (1954) Chance (1946)	6-28-11 <b>W</b>	<b>40</b> 80	2,111 16,140	16,140	2	Viola	3,925 4,314 4,254 4,386 4,432

TABLE 56 .- Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depti to pro- ducing zone, fee
Chance East (1952)	34-26-13 <b>W</b>	300	6,862	93,446	1	LansK.C	-
			437		1	Mississippi	-
			40,528		5	Viola	4,261
	04 00 4077		635		2	Arbuckle	
Chance North (1954)	21-26-13W	80	6,387	6,387	2	Simpson	4,421
Chance Northwest (1954)	29-26-13W	120	25,191	25,191	3	Simpson	4,422
Chitwood (1943)	23-28-12W	1,580	5,632	7,712,280	3	LansK.C	•
			13,142 332,162		11 50	Viola Simpson	4,396
			3,776		4	Arbuckle	4, 350
Chitwood Northeast (1950)	13-28-12W		no report	3,678	•	Viola	4,330
Clara* (1948)	36-29-14W	140	11,742	175,379	5	Simpson	4,472
Coats (1944)	24-29-14W	400	11,970	412,255	8	Simpson	4,402
						Arbuckle	
Coats North (1954)	12-29-14 <b>W</b>	80	26,803	26,803	2	Marmaton	4,342
						Simpson	4,584
Cunningham * (1931)	7-28-11 <b>W</b>	3,200	105,985	4,722,571	69	LansK.C	
Earl (1954)	36-28-14W	200	21,648	21,648	4	Simpson	4,520
Fitzsimmons (1953)	30-27-13W	120	27,287	44,338	3	LansK. C	
Fitzsimmons South (1954)	31-27-13W	80	4,453	4,453	2	Simpson	4,435
Frisbie (1943)	5-26-13W	400	24,410	363,963	5	LansK.C	
Frisbie Northeast (1948)	4-26-13W	380	58,996	226,924	13	LansK.C	•
						Viola	4,170
Carralia (1050)	10 00 1577	40	14 005	10 405		Simpson	4,274
Gereke (1953)	12-26-15W	40	14,225	16,435	1	Viola	4,376
Hertlein (1953)	22-28-13W	0 700	no runs	307	1	LansK.C	•
Iuka-Carmi (1937)	11-27-13W	8,780	47,475 3,771	15,168,907	17 1	LansK.C. Mississippi	-
			35, 203		5	Viola	4, 195
			1,115,650		156	Simpson	4,292
			232,667		55	Arbuckle	4,354
Iuka-Carmi Northwest (1953)	26-26-13 <b>W</b>	400	1,363	39,497	1	Viola	4,217
Take Out his Notice webs (1905)	20 20 20		5,056	00, 10.	ī	Simpson	4,276
			28,378		4	Arbuckle	4,358
Jarboe (1952)	25-26-14W	40	211	1,267	ī	LansK.C.	-
Lion (1953)	29-27-11W		no report	none		Viola	4,323
Lion Northeast (1954)	21-27-11W	40	7,373	7,373	1	LansK. C.	
Ludwick (1944)	4-29-13W	40	2,681	33,204	1	Simpson	4,490
Moore (1949)	1-26-14W	400	17,707	98,895	2	Viola	4, 234
•			31,346	·	5	Simpson	4,348
Moore Southwest (1953)	11-26-14W	500	1,570	70,017	1	LansK.C.	3,846
			40,252		7	Kinderhooki	an 4,246
			9, 121		1	Simpson	4,364
Shriver (1944)	33-29-14W	400	39,243	717,379	7	Simpson	4,557
Stark (1941)	18-26-11W	300	5,541	854,500	6	LansK.C.	3,601
						Viola .	4, 121
Stoops (1946)	7-29-12 <b>W</b>	80	2,293	90,047	2	Viola	4,446
	24-29-13W	40	1,056	16,368	1	Viola	4,483
Stoops Southwest (1946)				1 400		T W A	
Tatlock (1954)	28-26-15 <b>W</b>	40	1,482	1,482	_1	LansK.C.	3,925
	28-26-15 <b>W</b>	19,900	1,482 2,882,565	33,588,339	549	LansK.C.	3,925
Tatlock (1954)	28-26-15 <b>W</b>	19,900			_	Lans K.C.	



Albion (1948)	14-26-6W	100	1,435	26,927	3	LansK.C. "Chat"	3,342 3,654
Albion North (1950)	14-26-6W		no runs	767	1	Viola	3,997
Bacon (1953)	36-23-5W	40	6,276	8,417	1	Mississippian	3,382
Buhler (1938)	25-22-5W	1,200	126,930	1,134,636	18	Viola	3,890
						Simpson	3,897
Burrton* (1931)	1-23-4W	11,200	922,609	49,091,296	330	<b>M</b> ississippian	3,266
		Includes	Harvey Count	y production		"Hunton"	3,583
Grove (1954)	12-25-10 <b>W</b>	40	739	739	1	<b>M</b> ississippian	3,884
Haven (1951)	9-25- <b>4₩</b>	80	5,984	19,726	2	Simpson	3,977
Hilger (1934)	16-26-4W	900	40,152	4,744,262	15	Viola	4,062
Lerado Southwest (1944)	21-26-9W	40	3,494	134,003	1	Viola	4,177
Morton (1942)	17-24-8W	40	2,345	45,034	1	LansK.C.	3,180
Morton Southeast (1951)	16-24-8W	40	2,097	9,127	1	LansK.C.	3,423
Nicklaus (1952)	3-26-4W	120	18,414	40,103	3	LansK.C.	3,249
Sankey (1951)	22-22-10W	80	3,354	25,418	2	LansK.C.	3, 187
Sankey Southwest (1952)	21-22-10W	40	8,922	16,373	1	Viola	3,548
Sterling* (1951)	4-22-8W	360	22,432	22,432	7	Mississippian	
Yoder (1935)	34-24-5W		no runs	93,285	3	"Chat"	3,450
Zenith-Peace Creek* (1941)	21-23-10 <b>W</b>	8,300	215,590	18,075,929	109	Viola	3,773
Pools or fields abandoned			- 100 010	2,590,055	===		
Total Reno County		23,620	1,403,319	76,953,650	514		
		RICE	COUNTY				
Bell (1953)	9-21-10W	160	29,822	55,313	4	Arbuckle	3,391
Bingham (1952)	35-19-9W	80	9,149	17,457	2	Arbuckle	3,332
Bloomer* (1936)	36-17-11W	1,500	598, 194	14,388,653	80	LansK.C.	3,044
_						Arbuckle	3,257
Bowman North (1948)	16-19-10W		no runs	13,629	1	Arbuckle	3, 331
Bredfeldt (1948)	7-18-9W	120	5,381	88,687	3	Arbuckle	3,226
Bredfeldt West (1939)	12-18-10W		no runs	60,191	1	Arbuckle	3,260
Bushton (1954)	11-18-10W	40	392	392	1	Arbuckle	3,281
Calf Creek (1950)	28-18-10W	200	23,637	129,781	5	Pre-Cambria	•
Calf Creek North (1952)	28-18-10W	40	3,084	8,314	1	Arbuckle	3,248
Chase-Silica* (1931)	32-19-9W	34,000	<b>2,359,</b> 968	98,936,243	751	LansK.C.	2,942
						"Wilcox"	3,260
City was						Arbuckle	3,252
Click (1952)	3-18-7W		no report	5,938	_	LansK.C.	3,050
Click Southeast (1947)	11-18-7W	80	6,887	43,129	2	LansK.C.	3,065
Crawford (1953)	12-18-7W	320	34,520	36,074	8	Penn. congl.	3, 194
Crawford Southeast (1954)	20-18-6W	40	2,466	2,466	1	Penn. congl.	3,276
Engelland (1949)	34-20-7W	40	1,147	10,391	1	Conglomerate	
Fair (1952)	15-21-10W	40	1,213	4,129	1	Penn. congl.	3,358
Farmer (1952)	24-18-10W	600	120,985	240,594	19	Arbuckle	3,222
Frederick (1951)	10-18-9 <b>W</b>	80	4,913	21,375	2	Penn. congl.	3,213
Call trans.					_	Simpson	3,280
Galt (1952)	8-18-7W	200	19,692	64,919	5	Arbuckle	3,193
Geneseo-Edwards* (1934)	25-18-8 <b>W</b>	6,900	2,020,605	36,491,363	297	LansK.C. Penn. congl.	2,787 3,222
						Arbuckle	3,432
Glen Sharrald (1950)	20-18-10W	120	3,730	31,029	3	LansK.C.	3, 118
Green (1953)	14-19-6W		no report	618		Mississippian	
Heinz (1938)	8-18-10W	300	13,591	310,289	7		3,000
·,			,0-1	,	•	Arbuckle	3,254
ixi (1950)	4-19-10W	700	48,416	174,369	9		3,068
,			-5, 115	,	•	Arbuckle	3,308
Keller (1943)	3-19-9W		no runs	42,983	1		3,240
	- 10 011					•	3, 226
	14-20-8W	40	2.797	12.411	1	Lans, -K.C.	
Lyons (1949)	14-20-8W	40	2,797	72,477	1		
	14-20-8W	40	2,797	72,477	1	Arbuckle Misener	3,277 3,315

TABLE 56 .- Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing cone, feet
Mary Ida* (1950)	31-18-10W	640	104, 128	481,852	16	LansK.C. Arbuckle	3,033 3,272
Munyon (1950)	34-18-10 <b>W</b>	120	6,852	43,718	3	"Sooy" Arbuckle	3, 270 3, 275
Munyon East (1953)	34-18-10W	40	1,539	5,234	1	Arbuckle	3,274
Munyon South (1951)	3-19-10W	200	33,741	83,099	5	Arbuckle	3,300
Odessa (1949)	32-18-6W	400	41,997	274,284	11	LansK. C.	
Odessa South (1949)	9-19-6W	120	9,309	44,429	3	LansK.C.	3,069
Orth (1932)	27-18-10W	1,600	161,002	2,851,176	54	Shawnee	
						LansK.C.	2,915
						"800y"	3, 187
<b>_</b>						Pre-Cambri	
Orth West (1944)	21-18-10W	600	49,964	607,465	17	Shawnee	2,688
Ponce (1936)	20_21_7W	40	2 220	65 242	1	Arbuckle	3, 235 3, 388
Prosper (1948)	28-21-7W 6-18-9W	40	2,320 no runs	65,343 10,256	1	"Sooy" Arbuckle	3,232
Prosper East (1950)	5-18-9W	200	21,439	172,712	5	Arbuckle	3,222
Raymond (1929)	21-20-10W	2,800	256,816	13,845,699	81	Wabaunsee	2,285
imymona (1020)	21 20 10 10	2,000	200,010	10,010,000	01	LansK.C.	3,130
						Arbuckle	3,330
Raymond East (1954)	25-20-10W	40	2,929	2,929	1	Simpson	3,306
Rick* (1936)	1-19-11 <b>W</b>	40	2,087	56,672	1	LansK.C.	3,106
						Arbuckle	3,355
Rick Southeast (1947)	18-1 <b>9-</b> 10W	100	11,007	91,477	3	LansK.C.	3,026
						Arbuckle	3,334
Rickard (1935)	22-18-9W	40	4,376	197,855	1	Arbuckle	3,324
Ringwald (1949)	32-18-10W	500	72,988	510,770	9	LansK.C.	2,947
			24,087		4	Pre-Cambri	
Roesler* (1943)	14-18-11W	400	21,880	119,759	6	Arbuckle	3,291
Silica South* (1935)	24-20-11W	460	102,731	1,338,630	15	LansK.C. Arbuckle	3,035 3,268
Staatz (1953)	15-18-9W	80	14,618	16,810	2	Penn. congl.	
Sterling* (1951)	4-22-8W	200	12,701	24,393	5	Mississippis	
Union East (1950)	27-20-8W	280	5,500	56,918	7	"Soov"	3,305
Volkland (1943)	27-18-9W	400	29,864	703, 242	7	Arbuckle	3,221
Welch-Bornholdt* (1924)	35-20-6W	6,300	1,038,618	13,000,386	242	"Chat"	3,370
Welch North (1937)	23-20-6W	160	7,517	115,327	4	"Chat"	3,334
Wherry (1933)	11-21-7W	7,000	170,896	11,520,967	69	"Sooy"	3,358
Wherry North (1947)	35-20-7W	1,000	56,639	566,455	16	"800y"	3,423
Pools or fields abandoned				284,228		-	
Total Rice County		69,360	7,578,134	198, 343, 888	1,796		_
		ROOK	S COUNTY				
Allphin (1953)	33-10-20W	160	11,709	18,450	4	Arbuckle	3,729
Allphin Northwest (1954)	32-10-20W	200	23, 166	23,166	6	Arbuckle	3,736
Amboy (1950)	16-10-20W	160	8,337	71,262	4	Arbuckle	3,813
Annon (1951)	27-10-20W	120	24,024	76,938	3	Arbuckle	3,711
Barry (1942)	11-9-19W	1,900	117,413	7,156,383	17	LansK.C.	•
		•	413,704		50	Arbuckle	3, 435
			-				- 000
Barry East (1947)	6-9-18 <b>W</b>	400	2,659	611,177	1	LansK.C.	3,280
Barry East (1947)	6-9-18W	400	2,659 55,367	611,177	1 9	LansK.C. Arbuckle	3, 280 3, 489 3, 479



Bassett (1951)	20-10-20 <b>W</b>	40	568	3,288	1	Arbuckie	3,749
Baum (1942)	10-10-16W	40	2,036	22,779	i	LansK.C.	3,057
Baumgarten (1950)	25-9-19W	1,880	16,001	329,310	2	LansK.C.	3,401
	20 0 20	2,000	118,558	525,525	19	Arbuckle	3,621
Belmont (1949)	28-7-19W	40	1,973	13,218	1	LansK. C.	3,337
Berland East (1953)	20-10-19W	40	1,633	1,633	1	Arbuckle	3,778
Berland South (1951)	31-10-19W		no report	16,854		LansK.C.	3,480
Berland Southeast (1953)	29-10-19W	200	32,577	33,538	5	Arbuckle	3,755
Berland Southwest (1949)	26-10-20W	440	32,749	265,652	12	Arbuckle	3,728
Brungardt* (1952)	35-10-17₩	500	45,346	136,035	12	LansK.C.	3, 194
						Penn. congl.	3,449
						Arbuckle	3,644
Brungardt Northwest (1953)	34-10-17W	40	8,695	9,377	1	Arbuckle	3,477
Burnett* (1937)	1-11-18 <b>W</b>	700	125, 844	1,436,959	24	LansK.C.	3,093
						Arbuckle	3,570
Burnett Northwest* (1946)	3-11-18 <b>W</b>	280	37,488	406,098	7	LansK.C.	3,450
						Arbuckle	3,617
Chandler West (1951)	15-9-19 <b>W</b>	40	1,385	6,696	1	"Dodge"	
						(Shawnee)	3,248
Colby (1953)	27-10-17W		no report	1,462		LansK.C.	3, 384
Dancer (1952)	4-8-17W	40	1,276	8,680	1	LansK.C.	3, 140
Dopita (1934)	31-8-17 <b>W</b>	1,300	129,882	1,076,734	32	LansK.C.	3,212
					_	Arbuckle	3,409
Dopita East (1952)	29-8-17 <b>W</b>	400	78, Q06	89,886	9	LansK.C.	3,304
<b>.</b>					_	Arbuckle	3,421
Dopita Southeast (1954)	5-9-17W	120	4, 835	4,835	3	LansK.C.	3,335
Dorr (1942)	20-9-16W	800	103,688	876,344	23	LansK.C.	3,230
Dorr South (1953)	20-9-16W	80	14,427	16,260	2	Toronto	3,178
W1 6. 1 10001		•••				LansK.C.	3,233
Elm Creek (1951)	19-8-17W	920	217,062	347,967	28	Arbuckle	3,400
Pehnel (1952)	16-10-19W	80	13,965	34,082	2	LansK.C.	3,480
Firmesy (1947)	14-10-18W	80	4,899	32,598	2	LansK.C.	3,419
Ganoung (1953)	31-9-17 <b>W</b>	80	9,016	18,997	2	LansK.C.	3,281
Clab COATS	90 0 1017	280	47 595	017 059	7	Penn. congl. Arbuckle	3,524 3,578
Gick (1947)	30-9-19W 30-9-20W	800	47,535	217,653	20	Penn. congl.	3,810
Gra-Rook (1948)	30-9-20W	800	189,709	1,013,751	20	Arbuckle	3,869
Grover (1950)	22-7-19W	400	26,797	119, 161	9	LansK.C.	3,272
GIOVET (1930)	27-1-19 M	400	20,181	110, 101	•	Arbuckle	3,408
Hayden (1949)	31-8-19W	360	62,968	494,645	13	LansK.C.	3,289
	01-0-10-1	•	02,000	101,010		Arbuckle	3,513
Hillside (1952)	12-8-20W	40	2,488	9,996	1	Shawnee	3,206
Jelinek (1947)	23-9-19W	1,700	17,220	3, 284, 697	2	LansK.C.	3,220
(1011)		-,	519,867	<b>0,000,</b> 000	73	Arbuckle	3,537
Kern (1950)	28-9-20W	200	45,757	234, 134	5	Arbuckle	3,855
Krueger* (1948)	35-10-16W	380	84, 293	435,047	12	LansK.C.	3,552
			·	•		Arbuckle	•
Kruse (1951)	3-10-16W	440	53, 552	221,282	11	LansK.C.	3,094
Kruse Northwest (1953)	34-9-16W	120	10,710	15,321	3	LansK.C.	3,200
Laton (1927)	11-9-16W	4,100	177,291	4,455,813	103	LansK.C.	3,228
Leura* (1950)	30-10-20W	80	10,558	32,711	2	LensK.C.	3,619
						Arbuckle	3,706
Laura Southeast (1952)	30-10-20W	600	5,083	134,566	1	LensK.C.	3,543
			60, 191		9	Arbuckle	3,667
Locust Grove (1949)	8-7-19W	40	2,639	21,666	1	Arbuckle	3,450
Locust Grove Southeast (1951)	9-7-19W		no report	4,525		Arbuokle	3,400
Lone Star (1948)	4-8-17W	860	92,875	243,998	19	Arbuckle	3,382
Lone Star Southwest (1951)	8-8-17 <b>W</b>	80	4,350	20,180	2	Arbuckle	3,299
Lyrad (1951)	32-9-19W	500	83, 898	257,632	16	Arbuckle	3,750
Lynd Southwest (1952)	5-10-19W	40	1,072	4,808	1	Arbuckle	3,759
McClellan (1945)	9-9-19W	40	4, 305	63,018	1	LansK.C.	3,343



TABLE 56 .- Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 production, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, feet
McHale (1948)	8-9-18 <b>W</b>	400	44,977	390,937	9	LansK.C.	-
26-77-1- 0	15 0 1077			4 444		Arbuckle	3,494
McHale South (1949) Marc (1948)	17-9-18 <b>W</b> 18-9-19 <b>W</b>	80	no report	4,663	2	Arbuckle	3,615 3,370
Marcotte (1943)	15-10-20W	6,400	1,214 120,645	17,679 9,456,117	21	LansK.C. LansK.C.	•
Marcotte (1943)	13-10-20 W	0,400	1,590,831	5,430,111	211	Arbuckle	3,752
Marcotte North (1950)	31-9-19W	240	30,066	105,995	6	Arbuckle	3,770
Marcotte South (1951)	22-10-20W	80	13,969	41,264	2		3,719
Marcotte Southwest (1951)	21-10-20W	160	17,848	54,802	4	Arbuckle	3,743
Mayhew (1951)	24-9-19W	80	3,846	20,022	2	Arbuckle	3,613
Medicine Creek (1952)	18-8-16W	120	4,893	19,580	3	LansK.C.	
Mt. Ayr (1952)	13-10-18W	120	3,006	8, 281	3	LansK.C.	3,554
						Penn. congl	. 3,648
Muilenburg* (1949)	1-10-21W	120	18,864	18,864	3	Arbuckle	3,839
Nettie (1948)	34-9-17W	700	173,428	747,692	20	LansK.C.	•
						Simpson	3,499
						Arbuckle	3,513
Northampton (1948)	26-9-20W	1,200	7,075	2,714,143		LansK.C.	-
N	05 0 0077	100	403,269		47	Arbuckle	3,803
Northampton Southeast (1953)	35-9-20W	160	7,350	54,085	1 6		3,678
Nutsch (1954)	3-10-20 <b>W</b>	40	44,223	E 600	1	Arbuckle Arbuckle	3,775
Nyra (1946)	3-10-20W 16-9-17W	400	5,608 20,583	5,608 185,674	11	LansK.C.	3,840 3,429
Ny12 (1540)	10-3-11 W	400	20, 363	100,014		Arbuckle	3,501
Palco (1943)	5-10-20W	1.100	296,870	2,075,110	43	Arbuckle	3,824
Palco Southeast (1949)	3-10-20 <b>W</b>	680	82,328	468,716		LansK.C.	
			00,000	200,.20		Arbuckle	3,827
Palco Southwest (1951)	7-10-20W	200	12,004	73,861	4	Arbuckle	3,858
Palco Townsite (1945)	20-9-20W	80	3,739	32,807	2	Arbuckle	3,847
Paradise Creek (1947)	21-9-18W	1,100	178, 164	2, 122, 329	35	LansK.C.	3,400
						Arbuckle	3,576
Paradise Creek West (1953)	20-9-18W	160	47,022	51,410	4	Arbuckle	3,594
Plainville (1948)	31-9-17W	80	5,472	26,163	2	LansK.C.	3,477
						Arbuckle	3,613
Ray Southeast (1942)	9-6-20W	40	2,855	81,986	1	Reagan	3,600
Riffe (1951)	4-7-19W	120	9,363	33,108	3	LansK.C.	•
Slate (1951)	31-6-19 <b>W</b>	120	7,157	21,243	3		3, 291
G						Arbuckle	3,545
Stamper (1950)	28-8-17W	400	no report	910		Marmaton	3,394
Stockton (1937)	35-7-17 <b>W</b>	400	27,031	164,124	9	Shawnee LansK.C.	2,692 3,180
Sweet (1951)	18-8-18 <b>W</b>		no report	4,738		Arbuckle	3, 423
Vohs (1945)	14-10-19W	940	185,487	1,948,480	22	LansK.C.	
Vohs Northwest (1947)	9-10-19W	80	16,906	115,043	2		
			2-,		-	Arbuckle	3,738
Vohs South (1947)	23-10-19W		no report	12,524		LensK.C.	3,303
Webster (1946)	27-8-19W	1,800	180,438	2,443,990	55	Arbuckle	3,403
Westhusin (1936)	11-9-17W	1,500	124,155	2,217,406		LansK.C.	
-				· -		Arbuckle	3,408
Whisman (1950)	9-9-20 <b>W</b>		no report	none		LensK.C.	3,427
Williams (1953)	9-10-18 <b>W</b>	240	40,686	147,374	6	LansK.C.	3,459
			18,982			Simpson	3,717
			28, 365			Arbuckle	3,733



Williams Northwest (1953)	6-10-18W	40	4,525	9,033	1	LansK.C.	3,409
Williams Southeast (1953)	16-10-18W	200	18,165	19,907	4	LansK.C.	3,444
Yohe (1949)	4-9-18W	40	4,139	40,714	1	LansK.C.	3,266
Zurich (1935)	26-10-19W	800	31,733	384,052	9	Shawnee	3,087
						LansK.C.	3,340
Zurich Southwest (1952)	34-10-19W	40	4,707	11,981	1	LansK.C.	3,385
Zurich Townsite (1944)	27-9-19W	360	42,182	436,687	8	Arbuckle	3,647
Pools or fields abandoned			•	145,112			•
Total Rooks County		43,260	7,190,986	52,990,702	1,243		
		RUSI	H COUNTY				-
Chilly Knob (1953)	18-19-17W		no report	none		Arbuckle	3,928
Hungry Hollow (1951)	6-16-17W		no report	2,429		LansK.C.	3,344
Otis-Albert* (1934)	10-18-16W	2,200	101,780	4,914,338	39	Reagan	3,527
Rush Center (1947)	16-18-18W	900	76,558	137,574	12	Arbuckle	3,836
Rush Center Northeast (1954)		80	7,117	7,117	2	Arbuckle	3,783
Ryan* (1945)	35-19-16W	2,300	110,877	1,853,322	63	Arbuckle	3,656
Timken (1952)	28-18-17W	-,	no report	1,297	•••	Arbuckle	3,729
Webs (1954)	16-19-20W	40	790	790	1	Penn. basal	0,120
WC05 (1501)	10-15-20W	10	130	130	•	sand	4,202
Weitzel (1947)	1-16-20W	40	1,810	40,396	1	Gorham	3,674
Pools or fields abandoned	1-10-20W	***	1,010	60,590		JUI HAIH	3,014
Total Rush County		5,560	298,932	7,017,853	118		
- Total Italii County		3,300	250,552	1,017,655			
		RUSSE	LL COUNTY				
Atherton (1953)	30-13-14W		bined with Rus				
Atherton North (1945)	7-13-14W	40	3,958	75,814	1	Arbuckle	3, 195
Beaver North* (1937)	4-16-12W	40	4,074	67,460	1	Arbuckle	3,316
Beisel (1944)	15-14-12W		no report	18,617		Arbuckle	3,266
Boxberger (1935)	36-15-15W	100	3,051	235,035	2	LansK.C.	3, 147
Claussen (1944)	27-12-14W	200	16,185	82,613	5	LansK.C.	2,855
Claussen North (1949)	22-12-14W		no report	9,730		LansK.C.	2,956
Claussen West (1949)	29-12-14W		no report	1,217		LansK.C.	2,841
Coal Creek (1951)	22-15-11W		no report	none		Penn. congl.	3,178
Cook (1950)	26-13-15W	220	9,029	74,411	6	LansK.C.	3,051
						Arbuckle	3,314
Davidson* (1930)	4-16-11W	160	12,193	218,835	4	LansK.C.	3,016
						"Sooy"	3,317
						Arbuckle	3,314
Dillner Northwest (1947)	27-13-15W		no runs	9,640	1	Arbuckle	3,318
Onovan (1935)	10-15-15W	120	8,001	236,751	3	LansK.C.	3,193
Dubuque (1935)	34-15-12W	750	67,315	1,104,969	19	LansK.C.	3,275
, , , , , , , , , , , , , , , , , , , ,			•			Arbuckle	3,330
Culert (1949)	35-11-15W	540	123,260	813,897	17	Arbuckle	3,316
Culert West (1954)	34-11-15W	40	8,264	8, 264	1	LansK.C.	2,984
Fairport* (1923)	8-12-15W	4,000	632,052	22,574,787	161	LansK.C.	2,950
ampore (1000)	o <b></b>	-,	772,752	,,		"Sooy"	3, 137
						Gorham	3, 211
						Arbuckle	3,312
						Simpson	3,316
						Reagan	3,350
Par (1059)	9_19 1511	40	3,105	9,854	1	Arbuckle	3,238
Page (1952)	2-12-15W	40	-	9,854 none	1	"Langdon"	2,341
Possil Creek (1953)	11-14-14W	15 000	no report		447	Shawnee	
Gorham (1926)	32-13-15W	15,800	1,747,560	57,523,088	447		2,765
						LansK.C.	2,908
						Gorham	3,152
						Arbuckle	3,289
						Reagan	3,299



Pool or field name and year of discovery	Location of dis- covery well	Area,	1954 production, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, feet
Hall-Gurney (1931)	30-14-13W	29,000	4,316,502	63,503,782	1,223	Tarkio	1,985
						Wabaunsee	2,400
						Topeka	2,675
						Oread	2,813
						LansK.C.	2,985
						Gorham	3, 165
						Arbuckle	3, 192
						Pre-Cambria	ın 3, 15€
Heim (1953)	21-14-12W	240	25,244	<b>27</b> , 387	6	LansK.C.	2,897
						Penn. congl.	3,189
						Arbuckle	3,238
Janne (1943)	24-15-12W	300	13,631	236,469	5	LansK.C.	
						Arbuckle	3,319
Jerry (1942)	4-15-14W	40	2,157	62,673	1	Wabaunsee	
						LansK.C. Arbuckle	2,985
Meier (1948)	30-15-12W	60	28, 336	162,604	3	Arbuckle	3, 325
Ney (1948)	31-15-12 <b>W</b>	240	42, 191	253,690	6	LansK.C.	3,240
						Arbuckle	3,350
Parker (1948)	18-15-12W	340	31,568	295,866	7	Shawnee	2,957
						Arbuckle	3,259
Russell (1934)	22-13-14W	5,300	897,596	14,333,969	181	LansK.C.	3, 195
						Arbuckle	3,280
Russell East (1949)	25-13-14W	100	2,434	32,744	3	Arbuckle	3,273
Steinert (revived) (1954)	21-15-15W	40	1,189	40,899	1	LansK.C.	3, 141
Strecker (1943)	21-15-14W	100	3,272	54,363	2	Arbuckle	3,342
Trapp* (1936)	23-15-14W	25,000	3,188,418	95,680,046	935	Tarkio	2,359
						Shawnee	2,889
						"Dodge"	2,966
						LansK.C.	3,062
M W (1040)	14 12 1077		4	40	•	Arbuckle	3,252
Trapp East (1949)	14-15-13W	80	4,753	49,736	2	LansK.C. Arbuckle	3, 146 3, 277
Pools or fields abandoned				312,582			
Total Russell County		78,120	11,195,338	258, 111, 792	3,044		
		SALD	E COUNTY				
Bachofer (1951)	15-15-2W	160	11,542	37,745	4	Mississippia	
Gypsum Creek* (1944)	4-17-1W	760	148,849	266,408	17	Mississippia	-
Hunter (1943)	20-16-1W	840	58, 195	1,165,539	19	"Chat"	2,681
Hunter North (1948)	8-16-1 <b>W</b>	300	33,467	214,306	7	"Miss. lime"	-
Mentor (1944)	13-15-3W	120	5,084	36,514	3	Viola	3,258
Olsson (1929)	10-16-3W	860	42,842	510,487	14	Viola	3,303
Salemsborg (1952)	5-16- <b>3W</b>	4,200	262,381	565,316	54	Viola	3,381
Salina (1943)	30-14-2W	1,400	56,971	955,753	22	Viola	3,223
Salina South (1946)	32-14-2W	300	17,154	176,743	7	Viola	3,246
Smolan (1950)	19-15-3W	3,400	789,930	2,795,041	114	Viola	3,386
Swenson (1950)	34-15-3W	80	3,508	26,248	2	Viola	3,353
Pools or fields abandoned			- 100 00	11,285			
Total Saline County		12,420	1,429,923	6,761,385	263		



5,050

SCOTT COUNTY

2,704

40

10-19-31W

2,704

1 Arbuckle

Mississippian 3,349 Simpson 3,658

Lans.-K.C. 2,860

Kinderhookian 3,380

3,366

2,957

Viola

"Burgess"

Schulte (1947)

Valley Center (1928)

White Cotton (1948)

Pools or fields abandoned

**Total Sedgwick County** 

Grigston (1954)

GIRDMII (TSOZ)	10-19-21 M	40	2,104	2,104	-	AI DUCKIE	3,000
Keystone (1950)	25-18-32W	120	27,599	127,109	3	LansK.C.	4,001
Shallow Water (1935)	15-20-33W	900	17,905	1,864,471	8	Marmaton	4,286
, ,				, .		"Miss. lime"	4,660
						Ste. Genevieve	4,670
Total Scott County		1,060	48,208	1,994,284	12		•
		SEDGWI	CK COUNTY				
Bartholomew* (1948)	30-27-4W	1,700	275,314	2,011,733	60	"Miss. lime"	3,732
Butwick* (1949)	7-26-3E	Se	e Butler County	1,939		Mississippian	2,860
Chambers (1948)	10-29-2W	120	11, 159	64,184	3	"Miss. lime"	3,540
Clearwater (1944)	22-29-2W	200	9,454	126,705	4	LansK.C.	2,913
Cottage (1953)	19-25-2E	80	310	559	2	"Burgess"	3,004
Crestview (1952)	1-27-1E		no report	none		"Burgess"	2,982
Cross (1929)	27-25-1W	40	2,525	87,119	1	LansK.C.	2,690
Curry (1947)	11-27-1W	440	37,900	499,050	15	LansK.C.	2,715
						Simpson	3,400
Eastborough (1929)	19-27-2E	580	46,211	8,975,488	14	"Chat"	2,956
						Viola	3,238
Eastborough North (1952)	8-27-2E	80	7,606	24,359	2	Arbuckle	3,376
Fairview (1948)	8-26-2E	560	33,235	331,603	8	LansK.C.	2,500
						"Burgess"	2,960
						Mississippian	2,991
Fairview North (1948)	5-26-2E	80	9,435	117,283	2	"Burgess"	2,971
Fairview South (1950)	17-26-2E		no runs	10,553	1	"Burgess"	2,945
Gehring-Rick (1952)	16-28-2E	80	3,030	7,704	2	Mississippian	2,950
Gladys (1954)	30-28-1E	700	8,285	8,285	9	Mississippian	3,176
Goodrich (1928)	16-25-1E	780	80,925	4,800,098	24	LansK.C.	2,614
						"Chat"	3,010
						Kinderhookian	3,334
						Arbuckle	3,339
Greenwich (1929)	14-26-2E	700	113,584	11,648,841	25	"Chat"	2,885
						Viola	3,321
Hinkle (1946)	1-27-1E		no report	10,153		"Burgess"	2,980
Hohn (1945)	22-27-1W	200	15,278	123,681	5	LansK.C.	2,779
Kuske (revived) (1954)	24-25-1E	900	193,924	412,313\$	32	"Burgess"	3,016
Kuske North (1951)	13-25-1E	Coml	oined with Kuske	•			
Luening (1951)	33-26-2E	80	3,212	12,637	2	Simpson	3,338
Minneha (1951)	11-27-2E	160	24,431	32,880	6	Arbuckle	3,247
Minneha Northwest (1951)	10-27-2E		no report	2,798		Simpson	3,300
Petrie (1945)	36-26-1W	40	8,975	110,212	1	Viol <b>a</b>	3,387
Petrie Northwest (1951)	35-26-1W	40	4,330	35,050	1	Viola	3,445
Prairie Creek (1952)	25-25-2E		no runs	350	1	Mississippian	2,812
Robbins (1929)	20-28-1E	860	81,483	4,136,083	42	"Miss. lime"	3,090

SEWARD COUNTY										
Kismet (1948) Kismet South (1952)	23-33-31 <b>W</b> 26-33-31 <b>W</b>	40	no report 4,082	16,103 17,661	1	Marmaton 5,095 Mississippian 5,770				

200

600

11,780

1,500

3,856

63,046

40,407

1,077,915

198,150

509,249

71,393

56,463,102

22,092,650

7-28-1W

1-26-1W

30-26-2E



25

14

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TABLE 56.-Oil production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing cone, teet
Kneeland (1951)	23-34-31W	40	1,372	5,362	1	Marmaton	5,332
Liberal-Light (1951)	11-35-32W	2,400	14,475	134,982	1	LansK.C.	5,103
			21,558		6	Morrowan	6,005
Liberal Southeast (1947)	15-35-33W	120	4,26€	72,800	3	Penn. ss.	6,202
Thirty-One (1953)	18-31 <b>-31W</b>	40	315	315	_1	Morrowan	<b>5,44</b> 8
Total Seward County		2,640	46,068	247,223	13		
		SHERID	AN COUNTY				
Adell (1944)	11-6-27 <b>W</b>	1,200	286,407	3,260,741	38	LansK.C	3,755
George (1952)	17-9-26W	80	5,540	26,673	2	LansK. C.	4,023
Hortonville (1953)	20-6-26W	80	9,150	17,304	2	LansK.C.	3,789
Moss (1952)	2-8-30 <b>W</b>	40	150	799	1	LansK.C.	4,033
Studley (1943)	23-8-26W	340	15,732	412,195	6	LansK.C.	3,810
Studley Southwest (1945)	32-8-26W	80	8,322	61,703	2	LansK.C.	3,758
Wessel (1953)	27-6-29W	540	42,220	64,140	9	LansK.C.	3,985
Wessel North (1953)	16-6-29W	200	_14,281	14,782	_5	LansK.C.	4,081
Total Sheridan County		2,560	381,802	3,858,337\$	65		
		STAFFO	RD COUNTY				
Ahnert (1941)	26-22-13W		no runs	47,473	1	Arbuckle	3,784
Bart-Staff* (1951)	4-21-14W	120	26,663	147,960	3	Arbuckle	3,572
Bayer (1951)	16-21-14W		no report	1,505		LansK.C.	
Bedford (1940)	21-23-12W	860	44,847	1,649,596	15	Arbuckle	3,859
Brenn (1954)	19-23-13W	120	8,427	8,427	3	LansK.C.	3,651
Brock (1944)	12-23-12W	640	21,984	382,401	10	Arbuckle	3,680
Byron (1951)	9-21-12W	40	2,847	24,440	1	Arbuckle	3,459
Byron Southeast (1951)	10-21-12 <b>W</b>	160	7,891	35,797	4	Arbuckle	3,500
Centerview (1954)	28-24-13W	40	8,817	8,817	1	Arbuckle	4,188
Cephas (1953)	10-25-14W	600	106,773	155,219	15	Viola	4,114
Cephas North (1954)	35-24-14W	40	2,331	2,331	1	LansK.C.	3,794
Chase-Silica* (1931)	32-19-9W	500	58,976	296,086	15	Arbuckle	3,383
Cleveland (1953)	21-23-14W	80	14,361	16,428	2	LansK.C.	3,690
Cleveland South (1953)	28-23-14W	40	568	783	1	LansK.C.	3,703
Cochlin (1951)	19-22-11W	80	8, 157	27,219	2	Arbuckle	3,659
Crissman (1952)	16-23-14 <b>W</b>	400	43,788	152,670	7	LansK.C	
			23,267		4	Simpson	3,984
			-		-	Arbuckle	4,006
Crissman North (1952)	9-23-14W		no runs	1,807	1	LansK. C.	
Curtis (1942)	6-22-13W	1,300	55,063	964,268	7	LansK.C.	
D 11 44444			113,870		17	Arbuckle	3,693
Dell (1950)	7-21-13W	160	6,198	94,420	4	LansK.C.	•
Dell East (1951)	5-21-13 <b>W</b>	500	63,922 57,616	344,827	8 7	LansK.C. Arbuckle	3,471
Dell Northeast (1951)	5-21-13 <b>W</b>	80	4,796	14,652	2	LansK.C.	•
Diamond (1953)	8-22-13W	40	1,989	8,955	1	Arbuckle LansK.C.	3,612 3,426
Drach (1937)	12-22-13W	2,700	292,746	5,738,913	53	Arbuckle	3,690
Drach West (1938)	14-22-13W	200	35,919	165,672	5	LansK.C.	
Duggan (1951)	30-21-11W	540	16,699	137,092	8	Arbuckle LansK.C.	9 212
meean (1991)	20-71-11 M	340	10,000	131,092	0	Penn. congl	,
						Simpson	3,479 3,505



Formington (1042)	34-24-15W	940	24 000	1 105 076	15	Kinderhookia	_
Farmington (1943)	34-24-15W	340	34,009	1,125,376	19	Arbuckle	4,417
Fischer (1938)	31-21-12W	260	18,139	408,646	7	Arbuckle	3,641
Fischer Northwest (1948)	36-21-13W	1,240	106,935	2, 116, 675	12	LansK.C.	3,464
		-,	231,583	_,,	28	Arbuckle	3,639
Frey (1950)	7-21-14W	700	101,039	554,572	12	Arbuckle	3,717
Gates (1933)	27-21-13W	5, 900	718,925	4,242,861	108	LansK.C.	3,530
` ,			•	• •		Penn. congl.	3,643
						Viola	3,635
						Arbuckle	3,679
German Valley (1951)	4-22-12W	80	8,060	34,938	2	Arbuckle	3,648
Glen (1954)	14-23-14W	40	7,796	7,796	1	LansK.C.	3,651
Gray (1946)	11-24-13W	120	2,751	48,416	3	LansK.C.	3,672
Green Ridge (1953)	30-23-14W	40	4,505	6,418	1	LansK.C.	3,788
Green Valley (1953)	2-23-14W	80	5,967	16,328	2	LansK.C.	3,640
Grow (1949)	16-21-13W	640	40,169	385,377	13	LansK.C.	3,463
						Arbuckle	3,705
Grunder (1943)	11-25-15W	40	832	24,727	1	LansK.C.	3,945
Hahn (1953)	21-22-13W	80	5,705	8,156	2	LansK.C.	3,610
Happy Valley (1952)	15-23-13W	40	1,883	7,642	1	Arbuckle	3,810
Hart (1949)	36-22-14W	Aband	doned during	1954		Arbuckle	3,830
Harter (1950)	30-24-13W	80	4,329	74,788	4	LansK.C.	3,767
						Simpson	4,167
						Arbuckle	4,181
Hazel (1942)	21-21-13W	960	91,084	686,945	25	LansK.C.	3,380
						Arbuckle	3,6 <b>92</b>
Hazel West (1950)	20-21-13W	1,100	172,775	662,465	24	LansK.C.	3,488
						Arbuckle	3,673
Helene (1952)	16-22-12 <b>W</b>	120	6,700	22,617	3	Arbuckle	3,685
Heyen (1943)	24-22-12W	700	32,094	579,461	14	Arbuckle	3,652
Hickman (1951)	27-21-14W	760	118, 119	668, 199	19	LansK.C.	3,522
			30,509		4	Simpson	
Hickman South (1952)	34-21-14W	40	9,249	18,374	1		3,567
Hudson (1952)	33-22-12W		no report	none	_	LansK.C.	3,495
Hufford (1948)	33-21-13W	480	73,384	734,815	8	LansK.C.	3,499
T 1 (1000)			58,782		8	Arbuckle	3,755
Jordan (1936)	15-25-14W	380	60,759	868,626	9	LansK.C.	3,722
Kachelman (1950)	7-25-13W	40	320	2,188	1		4,075
Kelly (1948)	35-23-12W	400	no report	5,204	11	Arbuckle	3,870
Kenilworth (1947)	15-22-13W	400	38,539	418,995	11	LansK.C. Arbuckle	3,505 3,808
V (1 (1054)	4 00 1007			*****		Arbuckle	3,860
Kennil (1954)	4-23-13W	300	no report 19,064	none 659,383	6	LansK.C.	3,827
Kipp (1937)	27-25-14W 23-25-14W	40	2,644	2,644	1	LansK.C.	3,748
Kipp North (1954)	23-25-14W	120	19,808	214,448	3		3,844
Kipp Northeast (1946) Knoche (1951)	8-24-12W	120	no runs	992	2	Viola	3,810
Koelsch (1952)	24-24-14W	440	69,456	127,407	9	LansK.C.	3,750
Koelsch Southeast (1952)	25-24-14W	600	5,102	302,709	1		4,181
	-0 21 1211		168,281	,.00	17	Arbuckle	4,187
Kowalsky* (1941)	32-20-11W	200	29,683	49,298	5	LansK.C.	3,279
Kowalsky Southwest (1950)	6-21-11W	200	23,533	145,943	5	Simpson	3,398
in waipay coam webs (2000)	v -1 -1		20,000	,		Arbuckle	3,424
Leesburgh (1938)	12-25-13W	740	45,855	2,541,463	15	Simpson	4,060
			-,	, ,	_	Arbuckle	4,153
Leo (1950)	7-21-13W	80	11,098	69,279	3	LansK.C.	3,475
			•	•		Arbuckle	3,636
Lincoln (1951)	29-21-14W	160	36,555	129,631	4		3,543
Lincoln Northwest (1952)	29-21-14W	80	4,091	18,076	2	Arbuckle	3,778
McCandless (1944)	30-25-13W	380	59,245	837,211	9	LansK.C.	3,863
• •			46,603		6	Simpson	4,251
McGinty (1950)	13-21-14W	40	1,013	10,761	1	LansK.C.	3,503
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Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, bbls.	Cumulative. production to end of 1954, bbls.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, feet
McGinty Northwest (1951)	14-21-14W	40	3,682	24,742	1	LansK.C.	3,483
Macksville East (1954)	14-24-15W	80	11,132	11,132	2	Viola	4,126
Max (1938)	35-21-12W	4,460	61,238	6,136,521	14	LansK.C.	
		-,	5,160	.,,	1	Simpson	3,615
			414,947		71	Arbuckle	3,570
Max South (1950)	15-22-12W	80	1,989	9,282	2	LansK.C.	3,320
Merle (1949)	32-23-13W	380	16-274	299, 287	13	LansK.C.	3,669
Mopac (1954)	30-24-11W	80	4,130	4,130	2	Viola	3,908
Mt. View (1952)	29-22-13W	80	13,009	30,346	2	LansK.C.	3,641
Mueller (1938)	29-21-12W	4,600	26,229	5,533,920	5	LansK.C.	3,356
			583,401		91	Arbuckle	3,594
Mueller West (1949)	24-21-13W	120	5,451	28,634	3	Arbuckle	3,658
Nellie (1948)	28-22-14W		no runs	21,542	2	LansK.C.	3,696
Neola (1948)	15-25 <b>-</b> 11₩	80	2,442	29,606	2	Viola .	3,921
Newell (1953)	7-25-11W	160	17,590	19,990	1	LansK.C.	3,537
					3	Viola	3,913
North Star (1952)	27-24-12W	640	67,612	193,890	8	Viola	3,915
			16,966		2	Simpson	4,063
North Star North (1953)	21-24-12W	40	434	1,309	1	Arbuckle	4, 101
O'Connor (1948)	8-24-15W	120	2,679	23,336	3	LansK.C.	3,768
Oscar (1949)	24-22-14W	340	12,786	149,499	8	LansK.C.	3,503
						Viola	3,777
0 1 1 10001		400	100 001			Arbuckle	3,798
Oscar North (1951)	14-22-14W	420	109,394	274,727	12	Arbuckle	3,780
Oscar South (1953)	26-22-14W	160	11,099	37,265	1	LansK.C.	3,580
O W+ (1050)	00 00 1437	900	26,166	970 051	3 22	Arbuckle	3,817
Oscar West (1952)	22-22-14W	200	198,667	379,251	6	LansK.C.	3,593
Pleasant Grove (1952) Prairie Home (1949)	26-22-12W 2-21-13W	200	46,663 no report	93,712 14,940	1	LansK.C. Arbuckle	3,462 3,514
Prairie Home South (1953)	11-21-13W	40	7,486	14,332	1	LansK.C.	3,395
Pritchard South (1951)	3-21-14W	40	2,157	12,424	1	LansK.C.	3,483
Pritchard Southeast* (1953)	2-21-14W	80	22, 171	30,013	2	Arbuckle	3,472
Pundsack (1947)	19-21-13W	1,800	138,575	969,739	18	LansK.C.	3,575
1 diameter (1011)	10 21 10 11	2,000	152,645	000,100	23	Arbuckle	3,735
Pundsack North (1950)	18-21-13W	160	10,479	75,609	4	Arbuckle	3,674
Pundsack Northwest (1950)	24-21-14W		no report	5,031	-	LansK.C.	3,512
Radium (1953)	7-22-14W		no runs	1,043	1	LansK.C.	3,476
<b>(,</b>				-,	_	Viola	3,775
Radium Townsite (1953)	5-22-14W	80	36,050	47,876	2	Arbuckle	3,852
Radke (1953)	25-23-14W	40	3,486	8, 226	1	LansK.C.	3,688
Radke East (1954)	24-23-14W	40	1,529	1,529	1	LansK.C.	3,676
Rattlesnake (1938)	13-24-14W	160	9,733	197,977	4	LansK. C.	3,608
Rattlesnake Southeast (1954)	13-24-14W	80	14,479	14,479	2	LansK.C.	3,758
Rattlesnake Southwest (1950)	14-24-14W	80	9,695	75,533	2	LansK.C.	3,760
Rattlesnake West (1944)	11-24-14W	240	15,365	145,673	7	LansK.C.	3,759
• •			•	•		Mississippia	
Richardson (1930)	36-22-12W	1,560	451,525	12,717,962	71	LansK.C.	3,264
-			•	•		Arbuckle	3,537
Richland (1944)	27-24-14W		no report	186,258		Mississippiar	4,032
•			•	•		Arbuckle	4,232
Riley (1940)	28-23-11W	80	1,735	141,448	2	LansK.C.	3, 323
Rose Valley (1952)	36-25-13W	80	10,388	22,373	2	LansK.C.	3,824

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		SUMINE	R COUNTY				
Total Stafford County		58, 140	7,148,225	90,036,561	1,312		
Pools or fields abandoned			B 146 225	65,100		Viola	3,860
Zenith-Peace Creek* (1937)	23-24-11W	4,000	155,866	20,648,163	71	Arbuckle LansK.C.	3,965 3,481
₩ood (1953)	33-22-14W	120	19,208	23,265	3	Simpson	3,932
Widener (1954)	26-21-12W	240	29, 127	29,127	7	Arbuckle	3,574
Wendelburg (1951)	19-23-11W	40	2,128	15,574	1	Arbuckle	3,729
Van Winkle Southeast (1950)	26-21-14W	80	9,807	59,459	2	LansK.C.	3,569
Van Winkle (1950)	23-21-14W	40	1,424	12,419	1	LansK.C.	3,570
Van Lieu (1943)	20-24-13W	120	1,550	206,063	3	Arbuckle	4,069
Taylorville (1953)	29-25-12W	40	9,087	13,131	1	Viola	4,006
Taylor (1952)	15-21-12W	40	1,426	15,301	1	Simpson	3,688
Syms Southeast (1952)	27-21-12W	120	2,025 16,445	34,488	3	Arbuckle	3,565
Syms East (1947)	21-22-14W 21-21-12W	80	2,025	14, 324	2	Arbuckle	3,565
Sutton (1954)	21-22-14W	40	3,865	3,865	1	LansK.C.	3,874 3,638
Strobel Northwest (1952)	8-22-14W	80	8,004	26,954	2	Simpson Arbuckle	3,852
						Arbuckle	3,864
Strobel (1952)	9-22-14W	160	25,364	58,166	4	LansK.C.	3,659
Starr (1950)	4-21-14W	120	41,048	50,803	3	Arbuckle	3,579
werrotg (1330)	15-24-12W	1,000	17,305	3, 330, 308	41	Arbuckle	3,945
Spangenberg (1943) Stafford (1940)	21-22-12W	40 1 000	1,660 74,359	84,508 3,558,308	1 27	Arbuckle Viola	3,691 3,836
freezenske mar (10.40)	01 00 1055	40	8, <del>44</del> 6	94 500	1	Arbuckle	2 601
Smider South (1938)	16-21-11 <b>W</b>	500	78,359	1,346,306	9	Simpson	3,402
Snider (1936)	3-21-11W	80	18, 161	480,435	2	Simpson	3,362
			<b>3</b> 5,68 <b>9</b>		6	Arbuckle	3,576
Smallwood (1951)	2-22-14W	900	114,844	549,276	16	LansK.C.	3,474
Sleeper (1951)	22-22-11W		no runs	14,796	2	Penn. congl.	3,581
Made (1953)	23-25-12W	40	2,609	3,584	1	LansK.C.	3,819
(1501)	30-21-12 W	100	55, 555	,00,311	14	Arbuckle	3,600
Sittner (1937)	33-21-12W	480	30,093	706,511	14	Arbuckle LansK.C.	3,774 3,278
Siver Bell (1949)	10-22-13W	200	9,751	63,793	3	LansK.C.	3,498
Shepherd South (1953)	21-22-11W	80	9,456	17,900	2	Arbuckle	3,602
	<del></del>					Penn. congl.	3,446
Shepherd North (1954)	9-22-11W	80	13,872	13,872	2	LansK.C.	3,297
Shepherd (1951)	16-22-11 <b>W</b>	320	57,275	224,660	9	Arbuckle	3,548
··			. ,	,	-	Arbuckle	3,546
Shaeffer (1941)	3-21-13W	300	70,623	426,213	7	LansK.C.	3,404
Seevers (1954)	6-25-13W	80	5,694	5,694	2	LansK.C.	3,893
Saundra (1946)	14-21-12W	860	34,917	254, 129	11	LansK.C. Arbuckle	3,282 3,546
Saterioe (1954)	31-24-14W	40	2, 153	2,153	1	Penn. congl.	4,166
Sand Hills (1944)	19-21-11W	40	3,539	60,128	1	Arbuckle	3,548
Sandago (1947)	12-21-12W	240	8,467	149,342	5	Arbuckle	3,480
						Arbuckle	3,919
%. John Townsite (1944)	33-23-13W	400	15,647	417,394	10	LansK.C.	•
8. John Northwest (1952)	20-23-13W	40	4,051	13,364	1	LansK.C.	3,644
%. John North (1952)	20-23-13W	40	8,952	20,223	1	LansK.C.	3,603
3t. John (1935)	23- <b>24</b> -13W	840	51,028	2,650,861	16	LansK.C. Arbuckle	3,588 4,075
5 LL (1095)	02 04 1277	040	33,953	0 050 001	4	Arbuckle	3,544
Rothgarn Southeast (1950)	14-21-13W	200	10,625	132,934	1	LansK.C.	3,378
						Arbuckle	3,569
							0 500

TABLE 56.-Oil production in Kansas during 1954, continued

	TABLE 56.—Oi	l productio	on in Kansas di	tring 1954, conti	rued	
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 production, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells	Producing Depth zone to pro- ducing zone, feet
Anness (1937)	2-30-4W		no runs	154,772	1	Simpson 4,394
Anson (1948)	35-30-2W	120	24,584	127,211	5	LansK.C. 3,264 "Miss. lime" 3,742
Ashton (1954)	19-34-2E	80	7,970	7,970	2	"Cleveland" 3, 191
Ashton East (1954)	20-34-2E	40	492	492	1	Mississippian 3,517
Ashton Southwest (1954)	24-34-1E		oined with Asi		_	
Bellman (1945)	15-30-1E	160	9,690	300,693	4	Simpson 3,798
Bitter Creek (1953)	1-35-1E	200	33,468	34,116	7	Mississippian 3,500
Caldwell (1929)	17-35-3W	160	34,709	1,556,802	4	Simpson 4,765
Caldwell Northwest (1952)	8-35-3W	80	18,859	43,641	2	Simpson 4,835
Chicaskia (1954)	5-33-3W	40	4,076	4,076	1	LansK.C. 3,415
Churchill (1926)	25-31-2E	720	44, 127	19,708,478		"Stalnaker" 1,820
<b>(2,</b>		•	,	,,		Arbuckle 2,632
Corbin (1948)	23-34-2W		no report	37,286		Simpson 4,475
Dyal (1953)	4-35-2E	900	29,871	42,730	8	"Cleveland" 3,095
	. 00 22	•••	20,012	,		"Bartlesville" 3,424
Fall Creek (1950)	3-35-3W	800	269,217	1,405,648	24	Simpson 4,746
Gerberding (1954)	6-34-4W	40	3,242	3, 242	1	Simpson 4,710
Guelph (1951)	6-35-1E	780	86,617	658,432	10	LansK.C. 3,028
Guerpa (1001)	0 00 12	100	127,507	000, 102	15	Simpson 3,854
			9,077		1	Arbuckle 3,969
Hilltop (1953)	26-34-2E	1,600	142,999	146,440	46	"Layton" 2,808
IIIItop (1955)	20-34-2E	1,000	142,555	140,440	40	"Bartlesville" 3,472
Hummawall (1059)	10 25 15	40	202	2,839	1	Mississippian 3,602
Hunnewell (1952)	18-35-1E			•	11	LansK.C. 3,042
Latta (1927)	9-30-2W	540 300	43,400	1,331,635	6	Mississippian 3,349
Lee (1951)	33-32-2E	300	14,938	71,494	0	•••
Margaret (1946)	36-32-2E	00	no report	108,423		•
Metz (1951)	7-32-2E	80	19,244	48,887	2	Simpson 3,735 Arbuckle 3,773
Murphy* (1933)	7-35-3E		See Cowle	y County		•
Murphy Southwest (1954)	13-35-2E	360	10,692	10,692	6	"Cleveland" 3,150
Oxford (1927)	14-32-2E	800	102,685	16,332,430	28	"Hoover" 1,930
						"Stalnaker" 2,020
						"Layton" 2,510
						Arbuckle 2,890
Oxford West (1926)	17-32-2E	280	25,055	745,771	7	Simpson 3,681 Arbuckle
Padgett (1925)	12-34-2F	2,700	87,094	2,551,147	44	"Miss. lime" 3,474
						Simpson 3,744
Padgett West (1954)	21-34-2E	80	4,003	4,003	2	"Layton" 2,829
Perth (1945)	12-33-2W	560	74,869	882,740	11	"Wilcox" 4,264
Portland (1950)	16-34-1E	360	40,729	250,078	5	"Layton" 3,030
			45,569		5	Simpson 4,002
Rainbow Bend West* (1925)	24-33-2E		no report	453,000		Arbuckle
Slate Creek (1952)	9-33-2E	40	8,007	22,740	1	LansK.C. 2,804
Slick-Carson* (1924)	19-32-3E		See Cowle			"Bartlesville" 3, 124
South Haven (1954)	2-35-1W	200	24,706	24,706	5	Simpson 4,189
State Line (1953)	14-35-2E	160	27,593	32,969	5	"Cleveland" 3,158
Tate (1950)	31-32-2E		no report	3, 171	-	Simpson 3,726
Val Verde (1945)	23-33-2E	40	1,157	7,246	1	"Bartlesville" 3,280
Vernon North (1930)	15-35-2E	2,200	129,921	1, 108, 840	35	"Miss. lime" 3,443
Wellington (1929)	33-31-1W	3,000	215,547	8, 344, 127	141	"Chat" 3,655
Zoglmann (1951)	8-31-1W	40	385	16,253	1	Simpson 4,036
	0 01 14		-	10, 200	-	



Zyba (1937)	7-30-1E	560	35,075	424,514	7	Simpson	3,86
Zyba Southwest (1944)	22-30-1 <b>W</b>	600	137,381	1,007,413	14	Simpson	3,91
Pools or fields abandoned		10.000	1 004 555	126,475	400		
Total Sumner County		18,660	1,894,757	58,155,770	486		
		THOM	AS COUNTY				
Mingo (1952)	19-9-32W	80	4,575	7,130	2	Marmaton Mississippian	4,414 4,680
		TREG	O COUNTY	<del></del>		<del></del>	
Adair (1953)	21-12-21W	40	5,211	9,095	1	Marmaton	3,879
Cotton (1945)	15-12-21W	40	2,526	36,078	1	Arbuckle	3,95
Cotton East (1947)	14-12-21W	40	4,843	51,105	1	Arbuckle	3,94
"Coulson" (1954)	11-15-22W	40	427	427	1		-
Diebolt* (1953)	33-10-23W	640	67,982	87,226	12	LansK.C.	3,779
Ellis* (1942)	31-12-20W	460	39,996	422,533	6	Arbuckle	3,83
Ellis Northwest (1944)	26-12-21W	160	11,363	197,823	4	Arbuckle	3,92
Ellis South* (1952)	12-13-21W	40	8,034	18,503	1	Arbuckle	3, 82
Groff (1952)	26-14-21W	700	74,948	146,515	2	LansK.C.	3,49
<b>\</b> ,	**		. 2, - 23		10	Penn. congl.	3, 82
Hixson (1953)	19-11-22W		no report	none		Marmaton	3,81
Hixson East (1954)	16-11-22W	40	1,578	1,578	1	Arbuckle	3,93
Kutina (1953)	29-15-21W		no report	none	-	Mississippian	
Locker (1953)	5-14-21W	40	5,558	6,845	1	Penn. congl.	4,02
Nieden (1952)	16-12-23W	80	5,424	18,564	2	Mississippian	•
Ogallah (1951)	26-12-22W	3,800	576,686	1,868,467	72	Arbuckle	3,96
Ridgeway (1952)	26-12-21W	460	39,156	137,025	8	LansK.C.	3,69
Augeway (1902)	20-12-21W	400	33, 130	131,020	•	Arbuckle	3,89
Spaulding (1953)	1-11-21W	40	4,515	8,878	1	LansK.C.	3,57
Spaulding South (1954)	1-11-21W	40	1,045	1,045	i	LansK.C.	3,53
Spring Creek (1951)	32-12-21W	40	no runs	340	1	Arbuckle	3,904
		680	85,549	204,784	13	Marmaton	3,84
Sunny Slope (1952)	21-14-21W	600	-	-	13 5	LansK.C.	
Wakeeney (1934)	14-11-23W	600	16,059 no runs	856,261	1	LansK.C.	3,619
Wakeeney East (1949)	13-11-23W	O		11,904	1	LansA.C.	3,570
Wakeeney Northwest (1953)	4-11-23W		bined with Die		10	LansK.C.	9 40
Walz (1950)	12-11-21W	780	74,334	315,405	13	Arbuckle	3,42
White Southwest* (1953)	35-10-21W	80	2,451	2,451	2	Arbuckle	3,68
Pools or fields abandoned			-,	51,206			-,
Total Trego County		8,800	1,027,685	4,454,058	160		
		WABAU	SEE COUNTY				
Davis Ranch (1949)	33-13-10E	640	110,195	1,475,971	18	"Hunton"	2,929
						Viola	3,20
Mill Creek (1950)	2-13-10E	160	32,723	156,671	4	Viola	2,92
Newbury (1950)	11-11-11E	240	33,973	177,055	6	Viola	2,90
Wheat (1951)	10-15-11E	240	813	11,078	1	Simpson	3,23
Woodbury (1951)	11-15-10E	160	4,311	35,070	_2	Viola	3, 32
Total Wabsunsee County		1,440	182,015	1,863,444 recorded	31		
		WILSO	ON COUNTY				
Alterna (1002)	10-29-16E		<b>-</b>		45	!!C	0
Altoona (1903)	10-29-19E	900	9 001		47	"Squirrel"	650
<b>a</b>		320	3,961			"Bartlesville"	900
b		240	1,321				
c		320	3,044				
d ·		40	141				



TABLE 56 .- Oil Production in Kansas during 1954, concluded

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 production, bbls.	Cumulative production to end of 1954, bbls.	No. pro- ducing wells		Depth to pro- ducing ne, feet
e		320	2,110				
f		40	140				
g		160	538				
h		20	132				
i		240	3,734				
j		40	589				
k		10	137				
Altoona East	29-17E	480	8,810		29	"Bartlesville"	
Benedict	28-15 <b>E</b>				32	"Bartlesville"	1,000
a		10	24				
b		10	148				
C		40	1,025				
d		900	23,850				
e		40	218				
Buffalo* (1924)	27-16E				84	"Bartlesville"	•
<b>a</b> .		320	12,066			"Cherokee"	1,150
b		160	896				
c		1,280	24,973				
d		640	12,467				
e		10	94				
f		10	240				
g		10	178				
h		20	253				
i	00 00 147	40	436				
Buxton	20-30-14E	00	no report				
Fall River Fredonia (1890)	28-13 <b>E</b> 29-15 <b>E</b>	20	196		1 35	"Burgess"	1,050
• •	29-13E	160	2,425		35	Der Rose	1,000
a b		100	105				
C		160	413				
d		160	534				
e		480	5,616				
f		320	2,257				
		20	200				
g h		80	843				
i		40	327				
"Harvey"	27-13E	320	1,804		2		
Humboldt-Chanute*	28-17E	320	2,842		6	"Bartlesville"	850
Neodesha*	30-16E	020	2,012		125	"Bartlesville"	
a a	00 1012	160	839		1=0	211 1105 1 125	
b		240	1, 295				
c		480	2,050				
d		640	9,331				
e		40	208				
f		640	2,041				
g		4,500	31,264				
h		160	447				
i		480	2,330				
Neodesha East	30-17E	320	618		6		
"Stryker"	3. <b></b>	160	1,402		2		
			٠,		16	"Bartlesville"	1.000
	27-17E						
Vilas (1905)	27-17E	640	3 931		10	. Det (100 A 1770	-, -
	27-17E	640 10	3,931 36		10	Der (1994 tree	-, -

"Wiggins"	28-17 <b>E</b>	480	8,533		41	"Bartlesville" 850
Miscellaneous		15 440	905		5	
Total Wilson County		17,440	186,514	5,600,098 recorded	431	
		WOODS	ON COUNTY			
Batesville (1934)	34-25-14E		no report			"Bartlesville" 1,450
Big Sandy (1923)	23-26-14E	900	26,939		21	"Bartlesville" 1,230
Buffalo* (1924)	26-16E				15	"Bartlesville" 950
<b>a</b>		20	442			"Cherokee" 1,150
b		640	31,359			
Evans* (1938)	21-23-15E	480	2,052		5	Mississippian 1,540
"Gordon"		640	7,225		1	
Halligan	30-26-17E	320	4,346		8	
Hoagland (1929)	2-24-14E	1,280	19,596		33	Mississippian 1,635
Humboldt-Chanute*	25-17E				37	"Bartlesville" 900
		640	6,762			
b		480	7,603			
C The s		320	9,925			
Jobes	24-13E		no report			
"McGregor"		80	1,131		2	
Neosho Falls* (1928)	23-16E				93	"Squirrel" 950
<b>a</b>		480	39,733			Mississippian 1,200
ь		40	602			
c		1,280	9,727			
d		480	5,951			
Perry	26-17E	900	36,293		31	
Piqua (1938)	22-24-17E	480	2, 137		8	Mississippian 1,190
Quincy* (1932)	14-25-13E	1,280	217,864		196	"Bartlesville" 1,500
Rose	7-26-16 <b>E</b>		no report			
Silver City (1946)	19-23-15E		no report			
Stange		160	1,148		3	
Steele (1952)	20-23-15E	80	927		3	Mississippian 1,525
Stephenson		10	77		1	1
Toronto		80	619		1	
Vernon	23-16E				19	Mississippian 1,420
2		160	1,141			
b		40	419			
c		480	10,539			
d		320	3,723			•
e		80	1,035			
f		120	1,695			
Virgil North* (1920)	22-23-13E	640	22,737		20	"Bartlesville" 1,585
						Mississippian 1,840
Weide (1937)	31-23-15E				26	Mississippian 1,570
		40	1,138			
Ъ		600	11,279			
Winterscheid*	23-14E	9,000	247,873		314	"Bartlesville" 1,630
W/ /1000		0.46	4 105			Mississippian 1,750
Wissman (1936)	3-24-15E	640	4, 105		13	Mississippian 1,520
Yates Center	28-25-15E				22	Mississippian 1,480
		640	15,699			
b		80	155			
C		160	1,359		_	
Miscellaneous		24.076	56		2	
Total Woodson County		24,070	755,411	6,662,929	874	
				recorded		

<sup>\*</sup> Pield extends into adjacent county or counties.



<sup>§</sup> Corrected cumulative.

TABLE 57.—Gas production in Kansas during 1954

	TABLE 57.—G	as productio	n in Kansas d	uring 1954			
Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, M cu. ft.	Cumulative production to end of 1954, M cu.ft.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, feet
		ALLE	COUNTY				
Humboldt-Chanute*	26-18E	900	129,830		24	"Squirrel" "Bartlesville	740 " 850
Miscellaneous Total Allen County		$\frac{1,200}{2,100}$	$\frac{187,885}{317,715}$		<u>62</u> 86		
		BARBE	R COUNTY				
Aetna (1935)	13-34-15W	500	302,174	1,641,951	est. 4	<b>M</b> ississippia: Viola	n 4,850 5,215
Boggs (1947)	8-33-12W		Included w	ith Whelan		Simpson	4,824
Clara (1944)	2-30-14W		no report	803,532		Simpson Viola Arbuckle	4,435 4,509 4,540
Cottonwood Creek (1948)	21-30-14W		no report	none		Simpson	4,582
Deerhead (1942)	26-32-15W		no report	1,896,083		Viola	4,931
DeGeer (1948)	2-33-15W		no report	140,442		Mississippia: Viola	-
Donald (1946)	33-31-15 <b>W</b>		no report	none		"Miss. lime'	4,697
Hardtner (1954)	31-34-12W		no report	none		Mississippia	n 4,782
Lake City (1945)	7-31-13 <b>W</b>			ith Skinner			
Little Bear Creek (1954)	12-32-14W		no report	none		"Douglas sd.	
McClure (1954)	6-33-11W			ith Nippawalla		"Douglas sd.	
Mease (1954)	27-30-11W	7 500	no report	none		"Douglas sd."	
Medicine Lodge (1927)	13-33-13 <b>W</b>	7,500	5,232,931	170,992,771	41	"Douglas sd. "Chat"	4,455
						Simpson	4,860
Medicine Lodge Southwest (1954)	6-34-13W		no report	none		Mississippia	-
Nippawalla (1951)	13-33-12W	2,000	379,394	379,394	9	"Douglas sd.	" 3,659
Nurse (1953)	23-31-13W		no report	none		"Douglas sd.	" 3,599
Rhodes North (1954)	4-33-11W		d with Rhode				
Roundup (1953)	28-33-11W	Combine	d with Rhode				
Roundup South (1953)	33-33-11W	F 500	no report	none		Mississippia Viola	-
Skinner (1943) Skinner North	29-31-14W 17-31-14W	5,500	338, 237 d with Skinns	25,789,522	10	Simpson	4,630 4,422
Skinner South (1944)	32-31-14W	Сощоще		ith Skinner		"Douglas sd.	" 4 023
Skinner Southwest (1953)	1-32-15W		no report	none		"Douglas sd.	•
Whelan (1934)	32-31-11W	800	2,717,455	27,832,603		Douglas "Chat"	3,598 4,355
Whelan East (1954) Total Barber County	21-31-11W	16,300	no report 8,970,191	none 229,476,298		"Douglas sd.	" 3,746
		BARTO	N COUNTY				
Adolph (1947)	16-20-15 <b>W</b>		no report	none		Arbuckle	3,734
Ash Creek* (1948)	31-20-15W		no report	HOME		Arbuckle	3,769
Behrens (1944)	6-20-15W		no report				٥,. ٥٠
Bergtal (1941)	22-20-15W		no report	896,604	:	Arbuckle	3,689
Clarence South (1954)	2-20-15W		no report	none		Penn. congl.	
Converse (1953)	20-20-15 <b>W</b>		no report	none		Arbuckle	3,783



Dundee (1945)	29-20-14W		no report	2,021,092		Arbuckle	3,607
Eberhardt (1935)	14-19-11 <b>W</b>		no report	398,567			
Heizer Southwest (1952)	21-19-14W	100	223, <b>209</b>	468,113	1	Penn. congl.	3,496
Krier (1944)	30-16-11₩	160	88, <b>3</b> 70	739,427	2		
				-Prusa field			
Otis-Albert* (1930)	11-18-16W	5,000	873,981		12	Neva	
						Reagan	3,507
Pawnee Rock* (1936)	19&20-15&16W	100	70,000 e		1		
Rick* (1941)	11-19-11W		no report	403,810		Arbuckle	<b>3</b> , 355
Unruh (1945)	24-20-15W	400	845,074	13,661,935	5	Arbuckle	3,641
Miscellaneous			69,875		_1		
Total Barton County		5,760	2,170,509	20,891,764	22		
		BUTLE	R COUNTY				
Andover South*	31-27-3E		no report			"Stalnaker"	2,006
		CHAS	E COUNTY				
Altemus	98.10 05		<b>30 30-00</b>				
Davis (1929)	26-18-8E		no report			I Descriter (	DEA 400
Elmdale	18-8E	200	no report		_	L. Permian	
Limonie	19-7E	300	13,713		7	L. Permian Wahaunaee	500
Hymer	18-7 <b>E</b>		no report			wabaunsee	800
Lipps	32-18-7E		Included wit	h Flandala			
Neva	32-16-7E 19-7E		no report	n Elmoste			
Miscellaneous	19-12	700	•		91		
Total Chase County		1,000	$\frac{39,216}{52,929}$		21 28		
		1,000	52,525			······································	
		CHAUTA	UQUA COUNT	Y			
Miscellaneous		1,200	198,623		20		
		CLAR	K COUNTY				
Ashland (1951)	35-32-23W	1,500	406,995	1,317,555	3		
Harper Ranch (1953)	9-34-21W		no report	none		Morrowan	5,437
Harper Ranch North (1954	) 22-33-21W		no report	none		Morrowan	5,318
McKinney* (1950)	2-34-26W	6,000	350,363	433, 241	6	Mississippiar	5,762
Morrison Northeast (1954)	) 10-32-21W		no report	none		Morrowan	5, 193
Snake Creek (1952)	21-34-21W		no report	none	_	Morrowan	5,452
<b>Total Clark County</b>		7,500	757,358	1,750,796	9		
		COFFE	Y COUNTY				
"Gridley"		80	9,551		2		
		COMAN	CHE COUNTY				
Robbins Ranch (1953)	23-31-16W		no report	none		Mississippiar	4,915
		COWL	Y COUNTY				
Brown West (1951)	14-31-7E		no report				
"Cambridge Southeast"		40	36,256		1		
Estes			no report			Douglas	1,568
Frog Hollow	32-5E		no report				
Gibson	34-3E	400	354,665		5		
New Salem (1949)	21-31-5E	80	204,636		2		
School Creek North (1953)			no report			"Layton"	2,114
Trees	30-4E	80	39,480		2		



TABLE 57 .- Gas production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis - covery well	Area, acres	1954 pro- duction, M cu. ft.	Cumulative production to end of 1954, M cu.ft.	No. pro- ducing wells	Producing zone	Depth to pro- ducing one, feet
Tisdale	32-5E		no report				
Wiebe (1953)	28-31-6E		no report			"Layton"	2,220
Wilmot-Floral	31-5E		no report				
Winfield		600	no report		10		
Total Cowley County			635,037 ORD COUNTY	,			
McCune		400	35,025		19		
Walnut		300	6,717		6		
Miscellaneous		$\frac{60}{760}$	2,799			est. est.	
Total Crawford County		760	44,541			еві.	
		DOUGL	AS COUNTY				
Eudora			no report				
Lawrence			no report				
		EDWAR	DS COUNTY				
Belpre (1942)	8-25-16W	160	164,118	7,539,178	4	LansK.C.	3,800
Bradbridge* (1948)	6-24-15W		no report	none		Arbuckle	4,020
McCarty (revived) (1954)	31-25-17W		no report	none		Penn. congl	4,528
Wokaty (1954)	25-25-17W		no report	none	_	Penn. congl	. 4,390
Total Edwards County		160	164,118	7,539,178	4		
		ELK	COUNTY				
Bush-Denton (1920)	4-30-9E	100	36,237		4		
Longton		100	26,867		4		
Shrader				ith Miscellaneou			
Miscellaneous		400	305,891		23		
Total Elk County		600	368,995		31		
		ELLSWO	RTH COUNTY	T .			
Stoltenberg (1947)	18-17-9W		no report	443,891	2	Shawnee	2,728
		FINNE	Y COUNTY				
Hugoton* (1932)	16-25-34W	315,000	28,048,734	179,796,813	378	Chase group	2,200
Nunn (1938)	27-21-34W		no report	146,075		•	
Total Finney County		315,000	28,048,734	179,942,888	378		
		FORI	COUNTY				
Helmers (1953)	25-28-21W		no report	none		Mississippi	ın 5,024
Pleasant Valley (1938)	34-27-21W		no report	none		Misstssippi	
Pleasant Valley South (1954) Miscellaneous	14-28-21W	80	no report 97,257	none	2	Mississippi	un. 5,056
WITECELIATICOME							
		GRAHA	M COUNTY				
Law (1951)	34-9-23W		no report	12,656			



**GRANT COUNTY** 

		GRAN	1 COUNTY				
Hugoton* (1930)	12-29-38W	375,000	75,765,639	612,768,003	565	Chase group	2,200
		HAMIL	ON COUNTY				
Hugoton* (1946)	12-26-39 <b>W</b>	28,000	4,436,105	12,785,932	29	Chase group	2,200
		HARPI	ER COUNTY				
Anthony (1954)	31-33-6W		no report	none		Mississippian	4,486
Grabs (1949)	7-31-8W	300	185,904	490,463	6	Mississippian	4,385
Grabs Southeast (1950)	17-31-8W	Combine	ed with Grabs	·			•
Runnymede (1953)	23-31-6W		no report	none		Simpson	4,648
Total Harper County		300	185,904	490,463	6	•	
		HARVI	EY COUNTY				
Burrton* (1930)	23-23-4 <b>W</b>	800	372,752		13	Mississippian	3,298
				eno County produ	ection		
Burrton Northeast (1942)	3-23-3W		Included wi	th Burrton		Mississippian	3,226
Sperling (1935)	23-22-2W	250	47,731	7,505,77 <b>5</b>	1	"Chat"	2,955
Wall (1951)	25-22-3W		no report	none	_	Mississippian	3,150
Total Harvey County		1,050	420,483	8,263,592	14		
		HASKE	LL COUNTY				
Hugoton* (1931)	29-30-34W	250,000	25,528,913	218,379,750	361	Chase group	2,200
		JEFFER	SON COUNTY				
McLouth		300	29,940		1+	est.	
		JOHNS	ON COUNTY				
Miscellaneous		300	20,324		21		
		KEAR	Y COUNTY				
Hugoton* (1937)	32-25-35 <b>W</b>	397,000	61,466,542	408,030,430	52 <b>2</b>	Chase group	2,200
		KINGM	AN COUNTY				
Artesian Valley (1952)	22-27-10W		no report	3,870			
Broadway (1948)	21-28-5W	300	335,054	1,403,199	7	Mississippian	?
Cunningham * (1931)	7-28-11 <b>W</b>	800	350,495	est.	13	Arbuckle Viola	4,094
Dewey (1950)	9-28-5W	1,200	455,214	2,393,702	7	·	-,
Kingman (revived) (1954)	16-27-7W	_, =00	no report	none	•	Mississippian	3, 824
Spivey (1951)	27-30-8W	1,200	55,680	55,680	6	Mississippian	
Spivey Northwest (1954)	9-30-8W	800	no report	none	٠	Mississippian	
Zenda (1954)	36-29-9W		no report	none		Mississippian	
Total Kingman County	00 20 011	3,500	1,196,443	4,995,496	33		-,
		KIOW	A COUNTY				
Alford (1944)	14-30-19W		no report			Spergen	5,040
Brenham (1947)	29-28-17W		no report			"Miss. chert"	4,841
Johannsen (1954)	13-28-19W		no report			Mississippian	
Miscellaneous			no report	81,521			



TABLE 57.-Gas production in Kansas during 1954, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	1954 pro- duction, M cu. ft.	Cumulative production to end of 1954, M cu. ft.	No. pro- ducing wells	Producing zone	Depth to pro- ducing cone, fee
		LABET'	TE COUNTY	-			
Coffeyville-Cherryvale*	32-17E	120	5,597	est.		est.	
Valeda Miscellaneous		10 200	350		1		
Total Labette County		330	20,840 26,787	est.	$\frac{3}{7}$	est.	
		LEAVENW	ORTH COUN	TY			
Linwood			no report				
Roberts-Maywood*		80	4,973		2		-
		LINN	COUNTY				
LaCygne-Cadmus	20-24E	80	16,792		11	est.	
		McPHER	SON COUNT	Y			
Coons (1940)	13-19-1 <b>W</b>		no report			"Chat"	2,897
Doles Park (1947)	12-19-1W		no report			"Chat"	2,843
Graber North (1951)	4-21-1W		no report	none		Mississippi	
McPherson (1926)	29-18-2W		no report			LansK.C.	-
						Viola	2,967 3,140
Ritz-Canton (1929)	12-20-2 <b>W</b>		no report			"Chat"	2,935
Miscellaneous	12 20 211		154,084		1	· ·	2,000
		MARIO	N COUNTY				
Lehigh North (1953)	23-19-1E		no report	none		Mississippi	n 2,770
Propp	8-19- <b>4E</b>		no report				
Miscellaneous		120	123,735	est.	3	est.	
		MEAD	E COUNTY				
Adams Ranch (1945)	8-35-30 <b>W</b>	400	91,179	477,870	1		5,708
Adams Ranch East (1947)	36-34-30W		no report	none		Mississippi: Morrowan	5,874
Adams Italica Bast (1541)	30-31-3011		no report	попе		Mississippi	
Bruno Northeast (1953)	16-33-30 <b>W</b>		no report	none		Morrowan	5,721
Fringer (1952)	7-35-29W		no report	none		Morrowan	5,780
Kismet East (1953)	30-33-30W		no report	none		Morrowan	5,645
McKinney* (1950)	2-34-26W	7,600	3,391,620	6,806,635	12	•••	
Stevens (1952) Total Meade County	32-32-30W	8,000	no report 3,482,799	none 7,284,505	13	Morrowan	<b>5</b> ,560
			COUNTY			· <del>··</del>	<del></del>
Louisburg		40	8,956		4		
Miscellaneous		160	27,427		10		
Total Miami County		200	36,383		14		

MONTGOMERY COUNTY

MORRIS COUNTY

31,616

11,195

17,031

414,036

473,878

40

40

80

200

360

1+ est.

4

10

 $\frac{63}{77}$ 

"Cavert"

Neodesha South

Miscellaneous

Coffeyville-Cherryvale\* (1902) 33-17E

**Total Montgomery County** 

Miscellaneous		200	48,966		18		
		MORTO	ON COUNTY				
Boehm (1951)	14-33-42W	2,400	1,959,664	1,959,664	4	Morrowan	4,87
Dreyer (1953)	5-32-43W		no report	none		Wabeunsee Shawnee	2,81 3,13
Greenwood (1951)	14-33-42W	29,800	20,656,595	20,733,848	50	Wabaunsee	2,77
	11 00 12	20,000	20,000,000	20,100,010	-	Shawnee	3,06
Greenwood South (1953)	19-34-43W	Rename	d Interstate; o	il production on	y		
Hugoton* (1930)	24-34-40W	190,000	24,867,522	184,615,657	263	Chase group	2,20
Richfield (1948)	17-32-40W	1,200	338,834	1,019,129	2	Basal Penn.	
						(Atokan)	4,99
						Morrowan	5,39
Westola (1953)	5-32-42W		no report	none		LansK.C.	3,53
Total Morton County	_	223,400	47,822,615	208, 328, 298	319		
		NEOSI	HO COUNTY				
Earlton		40	1,251		1		
Miscellaneous		160	171,031		60		
Total Neosho County		200	172,282		61		
		PAWN	EE COUNTY				
Ash Creek* (1948)	31-20-15W		no report			Arbuckle	3,76
Benson (1945)	30-23-15W	1,500	1,834,354		15	Arbuckle	4,04
	00 20 10	2,000	Includes Zo	ok		711 545140	.,
Evers (1951)	36-21-16W	60	2,689	850,468	1	Arbuckle	3,90
Hearn (1953)	35-23-15W		no report	none		LansK.C.	3,83
						Simpson	4,10
Jab (1954)	35-22-17W		no report	none		Penn. congl.	4,15
Larned (1949)	28-21 <b>-</b> 16W		no report			Arbuckle	3, 87
• •	19&20-15&16W	600	1,578,000 e		16		
Ryan*	35-19-16W	100	90,000 e		2		
Shady (1945)	34-22-16W	150	58,791	3,992,596	1	Arbuckle	4,06
Sweeney (1953)	8-21-15W	240	370,826		47	Arbuckle	3,79
Sweeney Southwest (1953) Sweeney West (1954)	7-21-15W 6-21-15W		ed with Sweene ad with Sweene	•			
Torrance (1947)	19-21-15W		ed with Sweene	•			
Zook (1942)	16-23-16W	Сощощи	Included wit	•		Arbuckle	4,06
Total Pawnee County	10-20-10 W	2,650	3,934,660	22,459,930	39	ALOUCKIE	4,00
	***	PRAT	T COUNTY				
Barnes (1952)	05.07.100					Ol	4 00
Chitwood (1943)	25-27-12W 23-28-12W	300	no report 190,312	none 10.089.598	3	Simpson Viola	4,32
Cunningham* (1931)	7-28-11W	1,500	770,990 e		15	Viola Viola	4, 27
(2002)	1-20-2211	1,000	Includes Ca		10	Arbuckle	4,09
	29-26-12W	300	221,412	2,795,636	4	Viola	4, 12
luka-Carmi (1942)							



	TABLE 57.—G						
Pool or field name and	Location	Area,	1954 pro-	Cumulative	No.	Producing	_
year of discovery	of dis-	acres	duction,	production	pro-	zone	to pro-
	covery well		M cu.ft.	to end of 1954, M cu.ft.	ducing wells		ducing zone, feet
	wen			1954, M. Cu. It.	wens		zone, ree
Lion (1953)	29-27-11W		no report	none		Viola	4, 323
Shriver (1949)	27-29-14W		no report	104,191			
Stark (1941)	13-26-12W		no report			Viola	4,121
Ward (1941) Total Pratt County	11-26-12 <b>W</b>	2,100	no report 1,182,714	14,656,523	22	Viola	4,129
		2,100	1,102,714	14,030,323			
		RENC	COUNTY				
Burrton* (1930)	23-23-4W		Included wi	th Harvey Cour	ity	Mississipp	ian 3,298
Lerado (1937)	10-26-9W	200	301,450	1,936,129	4		
Yoder (1935)	34-24-5W	100	63,416		1	"Chat"	3,402
Zenith-Peace Creek* (1937)	23-24-11W		no report		_	Viola	3,860
,		300	364,866	2,122,694	5		
		RICE	COUNTY				
Alden (1937)	22-21-9 <b>W</b>		no report	15,449,656		Misener	3,317
Chase-Silica (1936)	6-19-9W		no report	1,835,285		Arbuckle	3, 192
Lyons (1888)	35-19-8W	100	65,663	13,871,092	1		3, 290
0.4.4000					_	Arbuckle	3,277
Orth (1933)	27-18-10W	160	38,876	000 455	1		•
Quivira (1947)	36-19-9W	000	no report	236,477		Tarkio	2,117
Sterling (1951)	4-22-8W	300	38,390	38,390		Mississipp	
Union (1950)	28-20-8 <b>W</b>	500	366,873	01 010 050	_5	Penn. con	gl. 3,275
Total Rice County		560	509,802	31,912,258	10		
		RUSE	COUNTY				
Otis-Albert* (1930)	11-18-16W	6,500	445, 160		26	Neva	
Reichel (1953)	23-17-17W	200	413, 173	413,173	3	LansK. (	C. 3,330
Ryan*	35-19-16W	300	810,000	est.	11	Reagan	3,507
Ryan East (1954)	36-19-16 <b>W</b>		no report	none	_	Arbuckle	3,648
Total Rush County		7,000	1,668,333		40		
		RUSSEI	LL COUNTY				
Miscellaneous		40	45,876		1		
		SCOT	T COUNTY				
Keystone (1950)	25-18-32W		no report	45,122			
		SEDGWI	CK COUNTY				
Andover South* (1950)	36-27-2E		no report	none		"Stalnaker	″ 2,00€
Bartholomew (1946)	30-27-4W	600	306,071		11	"Miss. lin	•
Derby (1937)	32-28-2E		•	used for gas		"Stalnaker	•
• • •			storage on	•		LansK.	•
Schulte (1949)	7-28-1W	200	123,886	1,243,034	3		-,
Total Sedgwick County		800	429,967	1,677,856			



		SEWAR	ED COUNTY				
Blue Bell (1953)	33-34-31W		no report	none		Mississippian	5,959
Blue Bell Northwest (1954)	20-34-31W		no report	none		Mississippian (Chesteran)	
Hawks (1952)	18-35-31W		no report	none		Morrowan	5,927
Holt (1954)	28-32-34W		no report	none		Topeka	3,820
Hugoton* (1922)	3-35-34W	212,000	19,585,230	128,612,325	284	Chase group	2,200
Kismet Northwest (1953)	10-33-31W		no report	none		Morrowan	5,584
Liberal-Light (1951)	11-35-32W	1,200	5,042,021	12,987,736	8	Morrowan	5,906
Liberal Southeast (1947)	15-35-33W	1,100	1,359,966	11,207,769	5	Penn. ss.	6,202
Thirty-One (1953)	18-31-31W	400	102,521	102,521	1	Morrowan	5,448
Wide Awake (1954)	4-35-43W	400	5,860	5,860	_1	Toronto	4,410
Total Seward County		215,100	26,095,598	152,916,211	299		
		STAFF	ORD COUNTY	•			
Bradbridge* (1948)	6-24-15W		no report	none		Arbuckle	4,020
Farmington (1948)	27-24-15W	Included	with Macksy	· ·		Mississippian	-
Farmington West (1952)	6-25-15W		no report	none		Penn. sand	4,164
Gates (1950)	26-21-13W		no report	266,956		LansK.C.	3,473
Hill (1952)	11-23-12W		no report	none		LansK.C.	3,447
Knoche (1951)	8-24-12W	300	251,475	1,208,546	3	Viol <b>a</b>	3,810
Macksville (1947)	3-24-15W	360	877,541	6,788,621	6	LansK.C.	
O'Connor (1947)	16-24-15W		no report	none		Arbuckle	4,061
Zenith-Peace Creek* (1937)	23-24-11W		no report		_	Viola	3,860
Total Stafford County		660	1,129,016	9,038,510	9		
		8TANT	ON COUNTY				
Hugoton* (1944)	32-30-39W	160,000	13,780,190		230	Chase group	2,200
Sparks (1954)	34-30-42W		no report	none		Morrowan (Keyes)	5,254
		STEVE	NS COUNTY				
Hugoton* (1927)	31-33-37 <b>W</b>	597,000	93, 253, 317	1,267,573,081	716	Chase group	2,200
		SUMNI	R COUNTY				
Fall Creek (1950)	3-35-3W		no report			Simpson	4,746
Padgett (1924)	23-34-2E		no report			"Miss. lime"	
Vernon North (1915)	15-35-2E		no report				•
Wellington (1929)	33-31-1W	No longe	er productive only	; used for gas st	orage	"Chat"	3,655
Miscellaneous			87,417		3		
		WILSO	N COUNTY				
Altoona-Earlton		400	92,698		29		
Neodesha*	30-16E	300	27,523		11		
Miscellaneous		300	55, 296	est.	29	est.	
Total Wilson County		1,000	175,517	est.	69	est.	
		WOODS	ON COUNTY				
Vernon		80	51,158		2		
		WYANDO	TTE COUNT	Y			
Roberts-Maywood*	11-23E	80	4,24		2		

<sup>\*</sup> Field extends into adjacent county or counties.



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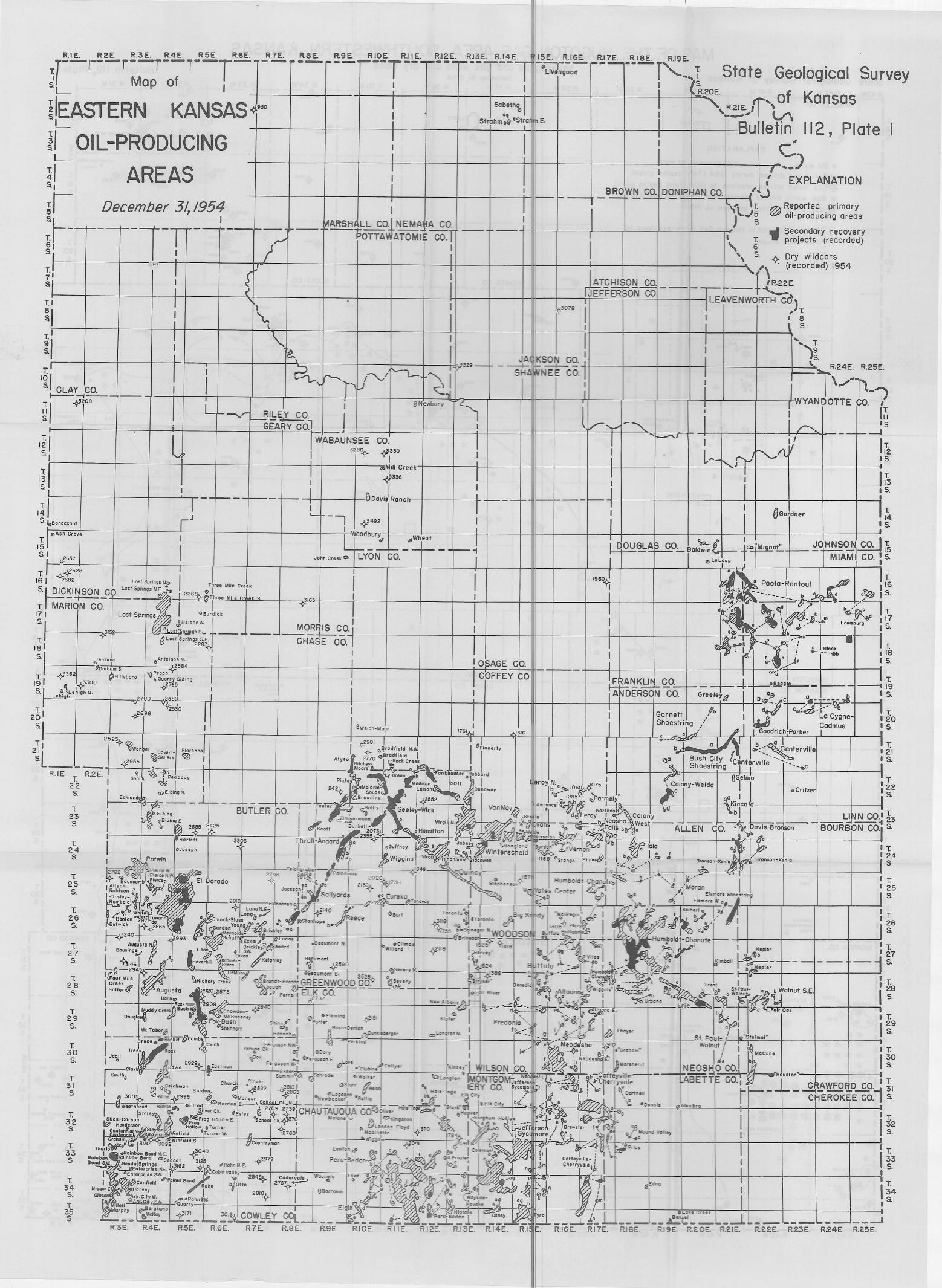
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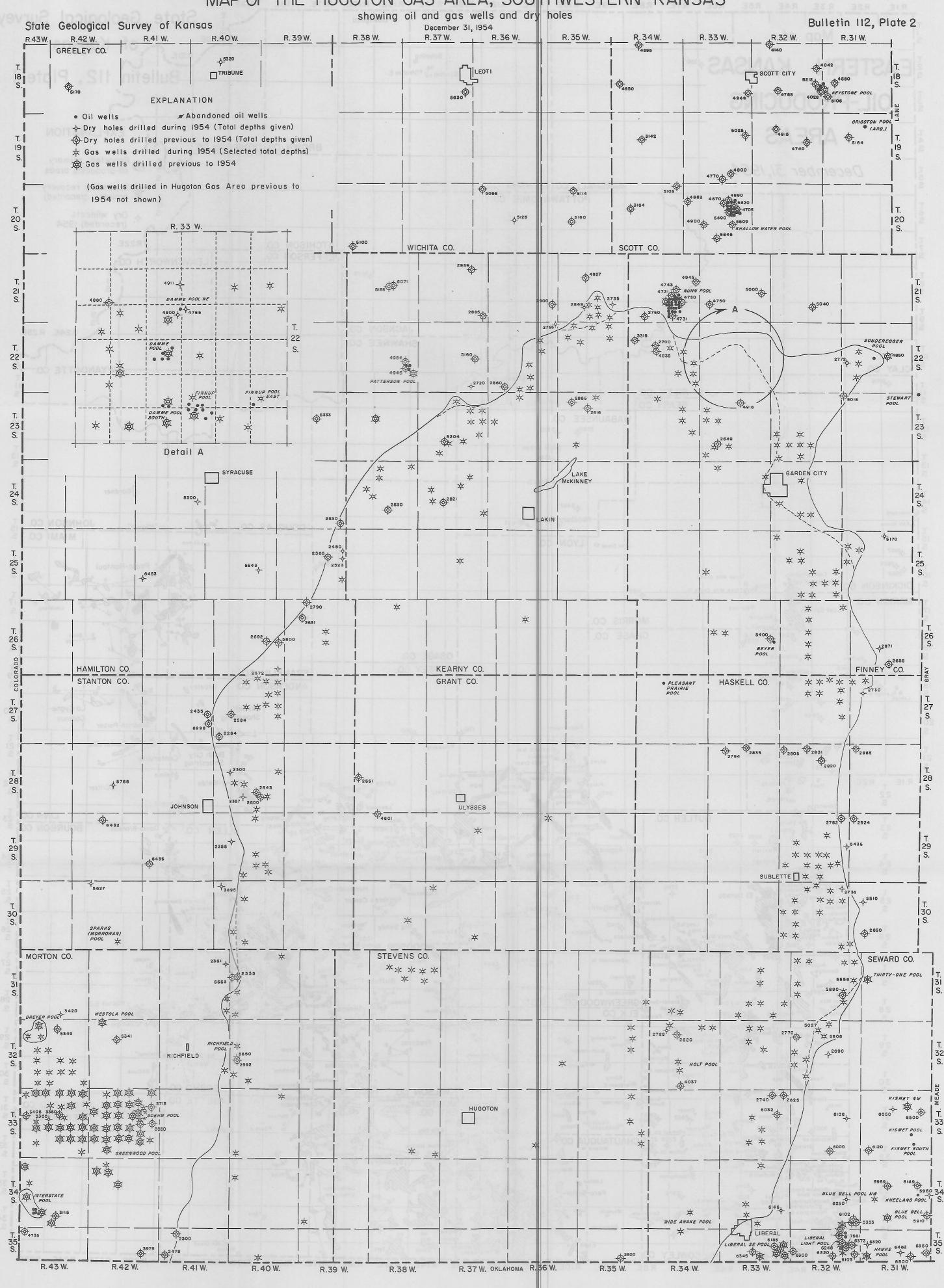
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## MAP OF THE HUGOTON GAS AREA, SOUTHWESTERN KANSAS



		I Survey of Kans	<i>J</i> 3			DATA OF	SECC	NDARY RECO	VERY PROJECTS	N K	ANSAS	S, 195					of Kansas	Bl	ulletin II	2, Tab	le I
Мо	Field	Operator	Project	Location	Cooperative or unitized		veloped acre	Possible additional acres Froducing formation	Interness of producing zone, feet to producing zone, feet zone, feet	Î	Active Suicing	Total	No. producing wells drilled	No. active	No. injection wells drilled	in 1954 Medium of injection	Source of water	Average bbls. water inject- ed per well per day	Cumilative secondary oil recovery per developed acre, bbls.	Production attributable to secondary recovery in	1954, bbls.
96 97 98 99 100 101	do do do do Tester	do do do Skelly Oil Co. Cities Service Oil Co.	McGilvray Seeley-Wick York, DeMalorie, O'Nes York-Wescott Wick Water Flood Teeter	8,9,16,17-23- 28,33-22-11E 4-23-11E 29,32-22-11E 33-22-11E 22,27,34-22-1 10,11,14,15,	Unit. Unit. Unit.	1943 1937 1943 1943	307 253 286 94 570 760	O do 0 do 0 do 0 do 0 do 0 do 240 do do	EENWOOD COUNTY, continu 37 1,950 37 1,950 47 1,950 30 2,000 20 1,975 37 2,470		0 29 0 23 0 52 0 6 0 32	29 23 32 6 32	0 0	17 24 6 20	0 0 0 0		do Produced Douglas do do 1,000'	430 120 220 180 295	1,510 2,220 7,420 2,390 1,510	* * * * * * * * * * * * * * * * * * * *	96 97 98 99
102 103 104 105	do do Thrall-Aagard do do	Kirkpatrick and McGuire Skelly Oil Co. Arkansas Fuel Oil Corp. Ohio Oil Co. do	McGinnis Hartley Flood (Shambau	16-23-9E ris 20,21-23-9E	+ Unit. No No No No No Unit.	1951 1944 1944 1948	62 30 84 366	- do 0 do 0 do 0 do 0 do	36 2,550 45 2,350 37 2,300 50 2,300		10	46 5 2 10 41	0 0 0	35 2 1 5 37	0 0 0 0	do do do do	Arbuckle and produced  Douglas  Salt water sand 1,200' salt water sand Arbuckle	243 364 448	487 156 28,027 4,417 4,475	250,044 59,172 6,823 3,304 32,074	102
107 108 109 110 111	do do do do Virgil	Phillips Petro. Co. do do do Sinclair Oil and Gas Co. Sauder and Sauder	Water Flood Schlotterbeck	14-24-9E 7-24-10E; 1-24 9E; 36-23-9E 14,22,23-24-9E 11,12-24-9E 28,29,30,52,33 25-10E 10-24-12E	Unite Unite Unite Unite Unite Unite	1937 1952	48 153 110 80 644 30	O do	42 2,200 40 2,100 35 2,200 70 2,150 50 2,300 31 2,300 10 1,745	0 0 0 15	18 13 11 5 63	8 4 18 13 11 78	0 0 0	5 1 14 4 8 62	0 0 0 0	do do do do Fresh and sal water	Douglas Produced Douglas Produced Arbuckle Produced Douglas do Douglas and surface po	312 450 280 350 130 and 203	6,826 7,980 2,450 8,460 7,320 3,252	*	106 107 108 109 110 111
	Virgil North  Totals  Price	Kelly Oil Co.  Veeder Supply and Develo	Lovett McNeil-Shambaugl Dehlinger  P- Labette Flood	2- 22,27-23-13E	- Unit.	10,		- do	12 1,600 1,700		12	1,063	13	749	9	Salt water do Estimate	Return and Douglas "Bartlesville" and "Mi sissippi lime" l additional secondary recover		•	2,200 30,000 4,035,302	112 113
	Goodrich-Parker LaCygne-Cadmis	ment Co.  General American Oil Co.	Goodrich LaCygne	19,20,29,30- 20-22E 2,3-20-23E; 34 35,36-19-23E	No	1944 1942	209 81		10-20 -  INN COUNTY  30 570  20 250	66	33 34	99 49	3 0	98 46	0 0	Salt water  Salt water  do	Shallow and return wat  Arbuckle  "Wilcox sand"	12	1,481 1,233	* \$1,296 16,683	
118	Totals  Atyeo do Fankhauser Totals	Barbara Oil Co. Ohio Oil Co. Phillips Petro. Co.	Jones Water Flood Atyeo Lauck	30-21-10E 30,31-21-10E 32,33-21-12E		1948 1947 1943	50 280 .00	LY O "Bartlesville O do O do	FON COUNTY  25 2,300 35 2,200 25 1,950	81 0 0 0	5 34 7	148 5 34 7	0 0 0	2 24 7 33	0 0 0	Estimated Salt water do do	Arbuckle do Douglas and produced	y production 400 208 190	2,150 4,939 2,730	17,000 64,979 * * *	117 118 119
121	Graber do Gypsum Creek Lively do	Cities Service Oil Co. Continental Oil Co. Geo. Hess do John Jay Darrah	Graber do Buckeye Clayton Unruh Edwin B. Koehn	31,32-21-1W 20,21,28,29,30, 31-21-1W 5-17-1W 4-20-2W 34-19-2W	, Coop.	1952 1947 1, 1953	30 .00 60 .20	0 "Hunton" do 0 "Chat" 80 Miss. "chat"	25 3,285 16 3,200 10 2,600 10 2,960	0 0	4	46 4 56 2 4	0 0	1 20 1	0 0	Fresh water Fresh and prod water	water wells "Chat"	80	1,870 1,900	151,826 16,152 543,945	120 121
125 126 127	Totals Louisburg Paola-Rantoul do	The Spearow Co. J.Wm. Everhart General American Oil Co.	Spearow J. Wm. Everhart Big Lake Development	14-18-22E	- Coop.	2,0 1951 1953	<b>-</b> 60 1	- "Peru" 80 "Peru"	100-200 2,960 MI COUNTY 20 40	0 0	6 72 25	6 72 - 25	- 9	1 24 - 41	1 1 - 22	Salt water  Air Salt water	do "Mississippi lime" - Arbuckle	60 100-150	- - 247	559,097 12,824	123 124 125 126
128 129 130 131 132	do do do do Totals	do Hart-Buston Henderson and Yolton Maracaibo Oil Corpe do	born Producers  Travis-Blook Grimes Flood No. 1 Flood No. 2	18-22E 15,16,21,22,26, 27-17-22E 10-17-22E 28,35-16-24E 23,25,26,36-16- 21E; 31-16-22E 5,6,8,9-17-22E	, No :	1945 6 - 1953 1947 ]	87 27 40 47 53	0 do 0 do - "Squirrel" - "Peru" - "Squirrel" - do	20 350  14 350  35 500-650  15 400  30 670  30 670	103 175 - 94 48	2 3 40 4 20 54	105 178 40 4 114 102	0 1 4 0 0	99 196 1 2 95	0 0 0 0 0 0	do do - Air Salt water do Estimated	do do Arbuckle do additional secondary recovery	28 27 12,000  production	1,027 745 - 30	1,250	128 129
133 I	Paola-Rantoul do Totals	Maracaibo Oil Corp.	Flood No. 3 Group 7	3,10,11,13,14, 24-16-21E 10,15,22,25,26, 35-17-21E		.951 1 .943 6		50 "Squirrel" O do	FRANKLIN COUNTIES  30 650  25 650  MERY COUNTY	0 120 120	73 25 	73 145 218	8 0 - 8	75 170 245	22 17 0 17	Salt water Fresh water Estimated	Arbuckle Stream secondary recovery production	L. As Delid Minlly Oll Tile Tenne Mex and Me Tile Yefter	da da	397,322	133 134
136 0 137 138 J 139	Caney Coffeyville-Cherryvale do Jefferson-Sycamore do Tayside-Havana do do do do do Totals	Alpine Oil and Gas Corp.  E. W. Hayes  do Gee Bee Oil Co. Kirkpatrick and McGuire Alpine Oil and Gas Corp. Consolidated Gas, Oil, an Mfg. Co. do do do	Roper Plute-McGuggin  Reiter Harvey Speed Recovery, Inc. Alpine Fee No. 2 Bell Nos. 1 and 2  Flanagan Nos. 1 and 2  Havener Shinn	3-35-14E 7-34-17E 9,10-34-17E 13-34-15E 22-33-15E 34-85-14E 10,11-34-14E 10,11-34-14E 33-33-14E 11-34-14E	No 1	946 948 952 952 949 944 942 10	30 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 . 3 .	"Bartlesville" "Peru"  "O "Wayside" "Bartlesville" "Wayside" "Wayside" do do	11.4 1,288 20 330 20 320 15 375	2 0 1 6	9 22 20 4 4 17 14 51 15 26	11 22 20 4 4 18 20 41 15 26	0 0 0 0 0 0 0	3 24 20 2 1 2 10 27 7	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Salt water Salt and fresh water Salt water Fresh water Salt water Salt and fresh water do do do Estimated	Return Formation and City of Coffeyville Arbuckle and formation "Bartlesville" City of Independence Return salt water Wells and return do do do do additional secondary recovery	22 8 10 28 97 14 13 17 25 11 production	2,200 1,000 - 1,185 2,504 354 2,183	16,000 8,400 - - 3,896 11,925	137 138 139 140 141 142
145 E 146 147 H 148 149 150 151	do fumboldt=Chamute do do do do do	Beeler and Lind  E. W. Edwards Belleair Oil Corp.  do Don George do Keas Drilling Co.  Skiles Oil Corp.	Bomhart, Ermey and Whited Edwards-Purviance Odense Weiner Blook Wells Project do Chanute Chanute Water Flood	ne 14,15,19=28=19E 7,8,18=27=20E 13=27-19E 4,9=27-18E 14,15=27=19E 6,7=28=19E 3,4,9,10,15, 16=27-18E 1,2,10,11,12,14, 15,21,22,23,27=	No 19 - 19 - 19 - 19 - 19 - 19 - 19	952 (949 953 2 955 18 952 2 952 3 952 3	0 24 6 9 3 8 8 2 0 10 0 27	0 "Bartlesville" 0 do 0 do 0 do 0 do	HO COUNTY  25 500  15 600 18 765  18 720 30 780-810 35 700-735 25 750  20 750	19 - 2 36 0 0 35	20 8 8 8 26 6 10 95	20 8 10 62 6 10 130	5 4 0 2 10 0 4 1	108 14 7 6 48 4 5 89 461	6 0 0 8 0 0 0	Fresh water Salt water  do do do Salt and fresh water do	Erie city and lime wells Cherokee shale Mississippian  do do do Gravel and return water Stream and produced		150 488	3,450 9,000 118,687 1,030 10,995	147 148 149 150 151
	t. Paul-Walnut umingham	Walters Drlg. Co. Skelly Oil Co.	J. F. Dent Waterflood  Cunningham Pressure	27-18É; 7-27-19E 28,29-28-21E 24,25,26-27-11W	No 19	1,91 36 1,40			20 410 INGMAN COUNTIES 16 3,400 est	520	9 182	9 702	<u>2</u> 27	<u>3</u> 637	<u>1</u> 15	Salt water	Sand above "Bartlesville"	15	265	1,882 1 390,014	
155 Al 156 Ze	bbyville enith-Peace Creek	Skelly Oil Co. Cities Service Oil Co.	Maintenance  L. A. Smith Lease  Peace Creek	19,20,29,30,31, 32-27-10W	- 19 To be 19 unit.	48 20 51 4	) 1 <sub>9</sub> 00	HENO Lansing	16 3,400 est  COUNTY  15 3,525 10 3,750	0	65 4 3	4 3	0	2 1	0 0	Gas Salt water do	Lansing and Topeka Produced	14,024 160 670 est.	1,367	5,100 1 1,367 1	
157 Or		Artnell Co.	Habiger	27-18-10W	- 19	24: 54 8:		Topeka	COUNTY 7 2,700 COUNTY	0	7	7	0	3	0	Salt water	Topeka and quartzite	200	-	6,467	
160 Gc 161 162 Ha	hirport orham do all-Gurney	The Texas Co.  The Texas Co. Cooperative Refinery Assn. The Texas Co. Stanolind Oil and Gas Co.	H. Berland "A" Repressure System  Fairport Water Flood Reinhardt Gorham Water Flood F. Krug "A"	19-12-15W 19-14-14W	- 199 Coop. 199 Coop. 199	54 30 54 50 54 70	-	Lansing Lansing-Kansas ( Lansing	8 5,000	0	15 2 6 6	15 2 6 6	0 0 0 0	1 1 1 1		Salt water Salt water do	Produced Arbuckle  Produced Lansing Recycled Cheyenne	1,500 255 450 500	- 17	0 11 890 16	60
163 164 Fa	do Totals Lirport	The Texas Co.  Stanolind Oil and Gas Co.	Leo, Henry, and Sam Boxberger Water Flood Kate Austin	14-14-14W; 11- 14-14W 25-12-16W; 30, 31-12-15W	- 19	54 240		Lansing  RUSSELL AND F	12 3,100	0 0	6 12 32	6 12 	0 0	9	0 0	do do Salt water		00=400 0	62	0 16 6,790 16 0 16 7,680	62 63
165 Ro 166	obbins do Totels	Magnolia Petro. Co. Stanolind Oil and Gas Co.	Henry Robbins Robbins Field	20-28-1E	- 194 Coop. 194			"Miss. lime"	EK COUNTY - 3,100 chat** 40 3,080	-	6 8 ———————————————————————————————————	6 8 14	0 0	2 5	0 0	Salt water Salt and fresh water	Produced with oil	215 00-400	- 700	24,129 16 9,933 16 56,000 16	35
	llington	Cooperative Refinery Assn.	Wellington	20,28,29,32,33- 1 31-1W; 4,5,6,8, 9-32-1W	Unit, 195		3,600		COUNTY  25-35 3,600	0	113	0101 0102 0101 0101 0101	0	7	0	Salt water	Topeka	310	182	65,933 73,000 16	
169 W1 170 171 172	osho Falls nterscheid do do do Totals  tion not to be reveale	Susmio Oil Co. French Oil Co. do do Telly Oil Co.	Dewey Smith-Jobes-Allen Winterscheid and Allen Leases ** Abandoned	24-23-16B 29,32-23-14B 32-23-14B 7-24-14B 6,7-24-14E	- 195  No 196	-	est.	"Squirrel" "Miss, lime" do	8 est. 940 - 1,675 12 1,675 8 1,675	00 00 00 00	23 7 5 9	25 7 5 9	1 0 0 0 0	12 - 1 2 1	-	Salt water  Salt water do do	Kansas City limestone "Mississippi lime" do do	18.7	461 2	22,522 166 - 166 - 177 - 172 - 172	68 69 70

State Geological	Survey of Kansas	5		034, com	DATA O	N SEC	CONDARY RE	COVERY	PROJ	IECTS	IN KA	ANSAS	5, 195	4			of Konsas	Bull	etin 112	, Table	
No. Field	Operator	Project	Location	Cooperative or unitized Year started	Total de-	Possible addi-	Producing forms tion	Thickness of producing zone, feet	Average depth to producing	Flowing	Active we	ells Lepon	No. producing wells drilled in 1954	sctiv ction s, 19	No. injection wells drilled in 1954	Medium of injection	Source of water	Average bbls. water inject- ed per well per day	Cumulative secondary oil recovery per developed ac acre, bbls.	Production attributable to secondary recovery in 1954. hhis	No
l Bronson-Kenia 2 Davis-Bronson	Maok C. Colt do	K. B. Project M-T Project	27,28-24-21E 3,10,15-24-21E 3,4,10-26-21E;	No 1951 No 1937	150 200 180	200 0 10	"Bartlesville" do do	18 34 20	700 630 650	0 87	70 56	70 93	25 4	59 85	16	Salt water	Arbuckle do	35 60	2,680 5,400	213,000 23,650	1 2
3 Elsmore Shoestring 4 do 5 Elsmore West 6 Humboldt-Chanute	Fees and Hoyt  Pavlicek Bros.  Eureka Cil & Gas Co., Inc. C and M Oil Co.	Elsmore Shoestring  Trast and Gray Farms Young and Newby Wedin, Knox, Fewins	34-25-21E 34-25-21E 16?-26-21E 32-25-21E 18,19-26-20E	Unit. 1941 - 1944 Coop No 1953	100 es	-	do do do	28 20 17	700 730 700	- 0	68 - 14 19	68 14 19	0 0 2	59 = 3	0 0	Fresh and salt water Salt water do	Stream  Mississippian	28	2,840	65,576	3 4 5
7 do	Gamble, Wright and Crumley General American Oil Co.	Wolf-Tebay Lease	24-26-17E; 19-26-18E 16,17,18,19,20- 26-18E	Coop. 1953	160 319	240	do	30	840	134	23	23	0	8	1 0	Fresh water Salt water Fresh water	Stream and shallow well "Oswego lime" Neosho River	s 40 125 11	568 	17,380 * 69,855	8
9 do 10 do 11 do	E. F. Gidley Weiner Petro. Co. C. A. Willis	Dimond Humboldt Water Flood Hoepker	16-26-19E 13,14,23,24-26- 18E 25-26-18E	- 1953 No 1942 - 1953	12 385 80	100 2,000 80	do do	10 25	70 825 830	0	13 135	13 135	<u>4</u> 5	5 130	0 11	Salt water do	Mississippian do	20 10	1,200	* 39,000	
ll do Totals	C. A. HIIIIS	noshret	20-20-105	_ 1900	1,636	00			000	171	430	601	52	504	57	Estimated addit	"Oswego lime" Lional secondary recovery	20 production		74,500 521,799	11
12 Bush City Shoestring 13 do	Deep Rock Oil Corp. General American Oil Co.	Salmon Oil Corp. Reed, Connelly, Loriaux	7,8,15,16-21-20 4,5,7,8,18-21- 21E; 12,13,14-	E - 1949 No 1939	<b>371</b> 985	-0	MIDERSO "Squirrel" do	ON COUNTY 20 30	800 620	81 402	35 17	116 419	0 <u>4</u>	113 386	0 0	Salt water do	Arbuokle and Mississipp Arbuokle	ian 32 25	932 1.958	130,938 190,636	12 15
14 do 15 Centerville	Maracaibo Oil Corp. Schermerhorn Oil Corp.	Starit Lease Centerville Flood, Kem- ler, South Unit, North	21-20E 8,9,16,17-21-20I 4,10,15,22-21- 21E	Unit. 1947	80 <b>34</b> 5	0 0	do "Bartlesville"	15 15	780 728	73	7	<b>-</b> 80	10 9	35 49	6	do do	do Mississippian	48	1,000 1,264	109,000	14 15
16 Colony-Welda 16a Colony-Welda Totals	W. S. Fees W. S. Fees	Unit No. 1 Stouffer-North Hyde	27,28,33-22-19E 22-22-19E	Unit. 1949 No 1947	360 20 2,161	0	"Squirrel" do	15 15	800	0 0 556	86 13 158	86 18 714	4 0 <del>27</del>	36 7 626	0 0 -	do do Estimated addit	Arbuckle do ional secondary recovery	16 16 production	29,382 5,110	44,094 4,412 479,080 630,330	16 16a
17 DeGeer 18 Sun City	Lion Oil Co. Great Lakes Carbon Corp.	DeGeer Unit Sun City	2,3-33-15W 26,27,28,34,	Unit. 1954 Unit. 1952	920 240	0	Viola limestone	R COUNTY 25 6	5,200 4,350	0	8 7	8 7	0	1 0	0	Salt water Water	Viola Stream	360.6	0	O struk	17 18
Totals	anglyerine decount devices of	esofthe esofthe esofthe potential	35-30-15W	9 0	1,160		Del bs	N COUNTY	net l	0	15	15	0	1	0		gusai				922
19 Bronson-Xenia	A. B. McClimans	Gugler lease	8-24-22E	No 1952	5	60	"Bartlesville"	12	530	0	2	8	3	Shut down	0	Fresh and salt	Stream and salt water	an areas as	-	est. 2,000	19
20 Blankenship 21 do	Franco-Central Oil Co. L. A. Seidenfeld	Hughes Sallyards Flood	9-26-8E 9,16-26-8E	No. 1951 . Coop. 1954	80 60	0 0	"Bartlesville" do	R COUNTY 67 40	2,500 2,564	-	15 6	15 6	0	12	0	Salt water do	Douglas sand "Bartlesville" and	306 	-	63,245 36,366	20 21
22 do 23 El Dorado	Sohio Petro. Co. Cities Service Oil Co.	do El Dorado Shallow-Atkins	30-25-5E		157 802	0 859	do "El Dorado"	41 18	2,500 650	0	18 131	18 131	2 7	16 52	2 2	do do	Arbuckle (buy it) Arbuckle Arbuckle and produced	200 154	3,670 663	117,000 397,139	22 23
24 do 25 do	do	El Dorado Shallow- Pierpont Finney	28,29,30,31,32, 33-25-5E; 5,6- 26-5E 4,9-26-5E	Coop. 1950	1,191	70	"El Dorado" Simpson	10	2,470	0	141	141	0	85 3	0	do	do Arbuckle	132	450 91	203,528	25
26 do 27 do 28 do	do do Magnolia Petro. Co.	Koogler Wilson Water Flood Koogler No. 6	17,18,19,20- 26-5E 8,9-25-5E 21,29,30-26-5E	Coop. 1948 Coop. 1954 Coop. 1951	1,214 400 170	265 0 300	Viola-Simpson "El Dorado" Simpson	10	700 2,600	0 0	151 75 58	151 75 58	18 5 0	72 21 11	3 16 0	do do do	Arbuckle and produced Produced Produced and Arbuckle	315 182 248	2,804	9,954 442,403	26 27 28
29 do 30 do 31 do 32 do	Musgrove and Milliken Skelly Oil Co. do Stelbar Oil Corp.	Hazlett Water Flood Page Flood Stone Lease	2-25-5E 19-25-5E 9-26-5E 2-25-5E	Coop. 1953 Coop. 1954 Coop. 1950 - 1953	40 120 30	0 0	"Peru" 700' sand "Wilcox sand" "Peru"	10 5 30 40	2,240 700 2,550 2,150	0 0	1 11 3 4	1 11 3 4	4 0 0	1 6 1	6 0 0	Pump Salt water do do	"Peru" Viola limestone Water sand	100 9 216 100	16 1,056	1,920 6,384	29 30 31 32
33 do 34 Fox-Bush 35 do	The Texas Co. Magnolia Petro. Co. Morrison Producing Co.	El Dorado Flood North Fox-Bush North Fox-Bush Unit	17-25-5E 23,24,25,26, 35-28-6E 1,2,11,12-29-	Coop. 1954 Unit. 1951 Unit. 1942	40 156 906	528 964	Indian Cave "Bartlesville"  do	14.1 40 31	700 2,760 2,800	0 0	2 43 19	2 43 19	0 0 6	3 15 7	2 0 2	do do	Produced (Arbuckle & Vi Arbuckle, Kansas City, and Douglas 350' water wells	iola) 175 413 450	1,036	5,710 332,426	33 34 35
36 Haverhill 37 Hazlett	Cities Service Oil Co.  Rex and Morris Drlg. Co.	Haverhill Unit	5E; 35,36-28-5E 15,22,27,34- 27-5E 6-24-5E	Unit. 1953 Coop. 1953	160 160	0	do Miss. "chat"	30 15	2,700	0	25 16	25 16	0	6	0	do	Arbuckle and produced	150	17	2,677	36 37
38 Smook-Sluss 39 do 40 do 41 do	Beren et al. Burton Oil Prod. L. A. Seidenfeld Skelly Oil Co.	Smook Falkenburg R. E. Sluss Farm Sluss Lease Flood	2-27-5E 8-26-6E 26-26-5E 26-26-5E	Unit. 1953 No 1953 No 1952 1953	40 200 40 30	120 280 0 0	"Bartlesville" do do do	50=60 20 35 40	2,700 2,700 2,780 2,710	0	2 6 1 2	2 6 1 2	0 0 0	1 2 1 2	0 0 0	do - Salt water do	320' water well "Bartlesville" do 950' sand	200-250 600 - 182	905	* 8,715 13,462	38 39 40 41
42 do 43 Snowden-McSweeney Totals	The Texas Co. Rex and Morris Drlg. Co.	Smock Wunsch Lease	2-27-5E 8-29-6E	- 1951 Coop. 1953	60 160 6,339	40	do do	25 30	2,675	-	6 13 755	6 13 755	42	1 1 321	45	do Recycled formation water (salt)	"Bartlesville" (produce do	ed) 130 50	-	2,624,811	42
44 Blankenship	Tide Water Associated Oil	Blankenship	9,10,16,17,21-	Coop. 1949	634	600	BUTLER AND GR	EENWOOD COUN	TIES	0	51.	51	5	49	4	Salt water	Arbuckle	132	2,045,30		44
	Co.		26-8E; 35,36- 25-8E				CHASE	COUNTY	Student Studen												
45 Teeter	Glenwood Oil Co.	Leedy	25,36-22-9E	- 1953	80	100	"Bartlesville" CHAUTAU	10 QUA COUNTY	2,500	-	6	6	0	5	0	Salt water	Douglas	100	0	est. 5,475	45
46 Peru-Sedan 47 do 48 do	Alpine Oil and Gas Corp. F. W. Pershall Wayne Sleeth	Alpine Fee F. W. Pershall and Son Lemmon Lease	22-34-12E 4-35-12E 9,10-35-12E	- 1954 Unit. 1953	20 60	20 50	"Peru" do	21 20 14	1,116 990	=	10 8	10 8	0 1	3 7	0	Salt water do	Return salt water "Peru sand"  do	18 20 10		4,380	46 47 48
49 do Totals	G. B. and C. E. Suppes	Suppes	27-34-12E	<b>-</b> 1952	160	0	do	20-30	1,150	-0	13 	13 33	0 -1	0 11	0 1	Salt water Estimated addi	tional secondary recovery	3b -		20,000	49
50 Eastman	The Texas Co.	Eastman	6-31-6E 31-30-6E	- 1929	290		"Bartlesville"	40	2,850	0	19	19	0	8	0	Gas and water	Produced "Bartlesville"	133 M	PD = cu.ft.	15,139	
51 Frog Hollow 52 Hittle 53 Rahn 54 do	Carter Cil Co. The Texas Co. B. B. Blair do	Frog Hollow Pilot Flood Layton Flood Jesse Rahn Lease Rahn Unit	16,20,21-32-5E 21-31-4E 13-34-5E 12,13-34-5E	Coop. 1952 - 1945 - 1953 - 1951	70 - 160 630	0 0	do - "Bartlesville" do	20-35 20-30	3,050 - 2,900 2,900	0 0	5 - 3 6	5 - 3 6	0 0	2 . 2 4	0 0	Salt water Salt water do	Produced brine Water well do	215 700 300	0 0 69	0 ** 0 43,467	52
55 Rainbow Bend 56 Rock	Sunray Oil Corp. Cooperative Refinery Assn.	Rainbow Bend Water Flood Rock Unit No. 1	29-33-3E 11,12-30-4E	Unit. 1952	575 70	0	do do	29 16	3,200	0	40 5	<b>4</b> 0 5	0	22	0	Fresh and produced Salt water	River sand and produced water "Stalnaker sand"	130	820 260	186,000 16,190	55 56
57 do 58 do 59 Rook North	do Stelbar Oil Corp.	Rock Unit No. 2 Rock Unit Shawver Ranch Flood	21-30-4E 11,14,15,16- 30-4E 2,3-30-4E	Unit. 1953 Unit. 1950 Coop. 1953	110 440 60	80	do do	20 15 15	2,800 2,800 2,800	0 0	9 22	9 22 4	2	5 15	0	do do	do do	200 850 250	865 1,000 est	19,000	57 58 59
60 Weathered 61 Winfield 62 do	Frost and Bennett Gulf Oil Corp. Sinclair Oil and Gas Co.	Weathered M. Shannon Lease Sinclair Winfield Line	28-31-3E 24-32-4E 24-32-4E	No 1946 Coop. 1948 Coop. 1948	40 15 10	280	"Stalnaker" "Bartlesville" do	5 38 43	2,100 2,980 3,000	0	3	3 3	0	1	0	do do	do "Bartlesville" and "Lay ton sands" Produced water	286	2,130 1,160 1,800	2,837 1,900 3,000	60 61 62
Totals		Flood			2,430		CRAWFO1	RD COUNTY	100	0	122	122	3	65	0	Escimaced addi	tional secondary recovery	production		32,000 596,633	
63 Brazilton 64 St. Paul-Walnut 65 Walnut Southeast Totals	Walters Drlg. Co. do General American Oil Co.	Monsees Waterflood O'Brien Waterflood Walnut	36-28-22E 26,35-28-21E 28-28-22E	No 1954 No 1953 No 1951	2.5 10 13 25.5	475 70	"Bartlesville" do do	65 20 12	320 380 386	000,1	5 9 7 21	5 9 7 21	6 2 0 8	4 10 9 23	4 0 0 4	Salt water do do	Mississippien Arbuckle do	10 30 6	0 38 1,238	0 388 4,085 4,473	63 64 65
66 Karlin	The Texas Co.	A. Schoetz	14-13-17W	- 1954	10	-	Lansing	20 IN COUNTY	3,300	0	4	4	0	0	0	Salt water	Produced Lansing	25	-	65	66
67 Paola-Rantoul 68 do 69 do 70 do	Barnett Oil Co. General American Oil Co. do Maracaibo Oil Corp.	Harley Finch Heminger-Finch Johnson Group No. 3	10-17-21E 20,28,29-16-21E 27,34-16-21E 4,8,9,16,17,20-	No 1948	75 189 136 210	85 10 0	"Squirrel" do do do	15 20 12 30	600 600 580 640	- 11 30	20 58 17 72	20 69 47 74	1 11 0	17 74 51 65	0 6 0	Fresh and produced Salt water do	Stream and produced "Mississippi lime" do Arbuckle	30 34 14	1,023 975 1,350	15,674 75,676 17,275	67 68 69 70
Totals	maradano on our	310MP 1106 D	16-21E	- CHIC 1300	610		100.0 E	OD COUNTY	0.50	43	167	210	12	207	7		tional secondary recovery			150,000 258,623	10
71 Atyeo 72 Browning	Cities Service Oil Co. Sinclair Oil and Gas Co.	Atyeo Browning Unit	6-22-10E 19,20,29,30- 22-10E	Coop. 1952 Unit. 1949	175 170	35 1,000	"Bartlesville" do	39 51	2,300	0 0	25 70	25 70	3 0	19 18	0 0		Arbuckle and produced r Douglas and stream	134 164	2,517 229	168,031	72
73 Burkett  74 DeMalorie-Souder 75 do	Phillips Petro. Co.  Cities Service Oil Co. Mid-Continent Petro. Corp.	Burkett  Greenwood Clopton and Harris	13,23,24,26,27- 23-10E; 18-23- 11E 19,30-22-11E 18,19-22-11E	Unit. 1942 Unit. 1952	665 66 200	0	do do do	33 30 25	2,200 2,200 2,075	0	6 14	6 14	0	57 6 7	0	Salt water  do do	Douglas and produced  do  Douglas sand	180 157 86	7,500 776 1,036	16,530 27,765	73 74 75
76 do 77 do 78 do	Phillips Petro. Co.  do do	DeMalorie-Souder Pix Souder "B"	1,2,11,12-22- 10E 3,10-22-10E 7-22-11E	Unit. 1949 Unit. 1949 Unit. 1953	629 25 27	0	do do	55 55 30	2,100 2,100 2,100	0	38	38	0	38	0	do do do	Arbuckle (produced)  do do	320 80 650	660 3,040 200	*	76 77 78
79 Fankhauser 80 do 81 do	Cities Service Oil Co. Sunray Oil Corp.	Fankhauser Fankhauser Unit Swanson Unit	4-22-12E 4-22-12E 9-22-12E	Coop. 1950 Unit. 1949 Unit. 1950	70 246 45	0 0	do do	24 24,2 25	1,800	0 0	5 26	5 26	0	3 19	0	do do	Douglas and produced Douglas sand wells and produced Douglas sand and produc	231 255	2,257 5,600 1,220	8,817 68,200 5,700	79 80 81
82 Hamilton 83 Lamont 84 Madison	Cities Service Oil Co. do do	Swanson Unit Patterson Lamont Madison	\$6-33-11E 24,25,26-22-12E 11,12,14,15,22,	No 1947 Unit. 1949	137 640 1,045	0 0	do do do	25 54 42 38	1,850 1,750 1,650 1,850	0 0	21 64 62	21 64 62	0 0	5 9 53 45	0 0	do do do	Douglas and produced do Arbuckle and produced	145 130 256	9,547 1,350 864	21,306 162,266 366,113	82
85 do 86 Polhamis 87 Sallyards	Magnolia Petro. Co. Sohio Petro. Co. Ohio Oil Co.	Kipfer-McGilvary Polhamus Flood Bryden-Ladd	23-22-11E 11,12-22-11E 27,34-24-9E 4-25-9E 25,36-25-8E	Unit. 1949 No 1949 Coop. 1953	65 195 172	0 28	do do	- 35 40	1,800 2,250 2,400	0 2	6 27 19	6 29	0 0	6 30 13	0 0	do do	Douglas do	512 120 80	5,500 296	62,063 101,000	85 86 87
88 do 89 do 90 do	do do do	Hoffman Ladd "A" Ladd Unit	25,36-25-8E 31-25-9E 30-25-9E 19,20-25-9E 19,30-25-9E	Coop. 1951 Coop. 1951 Coop. 1951 Coop. 1946	71 79 205	0 10 0	do do	40 40 40 50	2,400 2,400 2,400 2,400	0 0	8 9 12	8 9 12	0 0	6 4 12	0 0	do do do	do do do	61 181 101	1,880 1,740 4,790	*	88 89 90
91 Scott 92 Seeley-Wick	Phillips Petro. Co. Cities Service Oil Co.	Scott	24,25,26-23-8E 19,30-23-9E 8-23-11E	Unit. 1945 Coop. 1946 + Unit.	205 282 195	60	do do do	40 32	2,600	0	40	40	0	14 21	0	do do	Produced Douglas Produced water	430	1,730	* 48,781	91
93 do 94 do 95 do	Magnolia Petro. Co. Pay Rock Oil Co. Phillips Petro. Co	Seeley Unit Freeburg Beal	4,5,6,9-23-11E 22-22-11E 21,22,27,28- 23-11E		555 30 473	0 10 0	do do do	21 55	1,950 1,700 1,900	1 0 0	61 2 55	62 2 55	0 0 0	55 1 49	0 0	đo đo đo	Douglas "Bartlesville" Produced Arbuckle	219 110 \$70	2 5,900	44,960	93 94 95