STATE GEOLOGICAL SURVEY OF KANSAS

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BULLETIN 128

OIL AND GAS DEVELOPMENTS IN KANSAS DURING 1956

By

E. D. Goebel, A. L. Hornraker, P. L. Hilpman, and D. L. Beene



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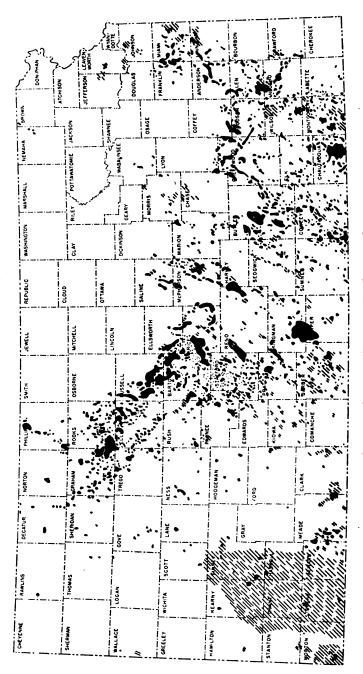


Fig. 1.—Index map of Kansas showing oil and gas producing areas.

OIL AND GAS DEVELOPMENTS IN KANSAS DURING 1956

By

E. D. Goebel, A. L. Hornbaker, P. L. Hilpman, and D. L. Beene

ABSTRACT

Kansas oil production in 1956 totaled 124,467,713 barrels, a new high in annual production. In value the 1956 output of crude oil increased to \$350,-998,951 from \$341,674,680 in the preceding year, entirely because of increased production.

Natural gas production in Kansas totaled 525.9 billion cubic feet (14.65 psia); the Hugoton Gas Area produced 381.9 billion cubic feet, about 74 percent of the total.

During the year 135 new oil fields, 35 new gas fields, and 3 that were both oil and gas fields were discovered; 6 previously abandoned fields, 5 oil and 1 gas, were revived.

Discovery of additional Mississippian and Morrowan reservoirs in the Kansas portion of the Sedgwick basin and the Hugoton embayment of the Anadarko basin during 1956 was significant.

In 1956, a total of 5,321 wells was recorded as drilled in Kansas counties in connection with the petroleum industry. Of the recorded completions, 2,408 were oil wells, 403 were gas wells, 33 were both oil and gas, 2,349 were dry holes, and 128 were salt-water disposal wells or wells used as input wells in secondary recovery operations. Of the 2,349 dry holes, 778 were wildcats. Estimates of wells not specifically reported bring the total number of wells drilled in the state during the year to 8,006.

As in 1955, Barton County, which produced 14,913,934 barrels, was the leading oil producing county. Ellis and Russell Counties, ranked second and third, produced 11,618,360 barrels, and 9,883,069 barrels respectively. The El Dorado field of Butler County replaced the Trapp field of Russell and Barton Counties as the top-ranking field in the state. The 6 leading oil fields—El Dorado, Trapp, Kraft-Prusa, Hall-Gurney, Chase-Silica, and Bemis-Shutts—accounted for about 18 percent of the total annual production

In 1956, Kansas fields produced 199.4 million gallons of natural gas liquids valued at more than 11.8 million dollars. Proved reserves of natural gas liquids are more than 171 million barrels.

The proved reserves of Kansas crude oil at the end of the year were 992.2 million barrels, or 1.0 percent less than the previous year's estimated reserves. Proved reserves of natural gas are almost 17.6 trillion cubic feet.

Production from secondary recovery projects in Kansas accounted for 11,619,573 barrels of oil during 1956. A total of 6,990 oil wells and 4,302 injection wells was reported during the year. Greenwood County, which yielded 5,365,499 barrels, led all other counties in the amount of oil produced by secondary recovery methods.



INTRODUCTION

During 1956 several new records were established in the Kansas petroleum industry. New highs were established in crude oil and natural gas value and production. Because of an increase in production of crude oil and natural gas, the dollar value of these resources exceeded all previous records.

Eighty-two Kansas counties have produced or are producing oil or gas, 2 more than in 1955. Rawlins County was added with the finding of oil in the Lansing-Kansas City group, and Wallace County with new gas reserves in Morrowan strata.

Stimulating the development in western Kansas was the completion of a large number of Mississippian wells in the Spivey-Grabs field of Harper and Kingman Counties, in various new Kiowa County fields, and in new and old fields in Barber County. Of special significance is the development of additional Lansing-Kansas City production (Warner fields) on the flanks of the Cambridge arch in Decatur County. The discovery of the South Side field (Morrowan) gave Kearny County its second oil field. The Panoma field discovery gave Stevens County a new gas zone, the Council Grove group. New Meade County Morrowan gas discoveries were important 1956 developments. Activity continued at a rapid pace in the Greenwood Gas Area and Interstate fields of Morton County.

Of importance to eastern Kansas during 1956 was the continued search for Arbuckle and Mississippian production in Montgomery, Chautauqua, Labette, and Elk Counties. The completion of several additional Viola wells in the John Creek and Comisky Northeast fields of Morris County during the year has made that area attractive for exploration. Development of a large number of "Hunton" field wells in the Unger and Unger Southwest fields and Mississippian wells in the Beauty and Lost Springs fields raised Marion County to the ranks of those counties having more than 200 completions during 1956. Cowley County exploration for additional "Bartlesville" and Mississippian production (367 new wells) led the state in that phase of the industry.

The **El Dorado** field of Butler County was the leading oil producing field in the state during 1956, replacing the Trapp field of Russell and Barton Counties.

Ellis County led all other counties in the number of new fields discovered with 16 new oil fields. Other counties with a large



number of new field discoveries are: Barber 12 gas, 2 oil; Stafford 12 oil, 1 gas; and Cowley 10 oil, 1 oil and gas.

Crude oil production reached a new high, but proved reserves of crude oil declined slightly.

Natural gas production increased 12.8 per cent from 1955, and the production of natural gas liquids declined 3.5 percent. Proved reserves of natural gas increased 7.8 percent, but proved reserves of natural gas liquids declined 0.9 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 regarded as "oil and gas territory".

A condensed petroleum data table (Table 2) shows at a glance the trends of 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.—The 124,467,713 barrels of oil produced in Kansas during 1956 is 3,306,479 barrels more than the 1955 figure and represents a new high in total annual oil production. The 2.7 percent increase in value of crude oil, from 241.7 to 350.9 million dollars, is due entirely to the increase in oil production.

Natural gas production during 1956 increased 12.8 percent from the previous year to 525.9 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 \$51,279,817 in 1955 to \$57,852,493 in 1956, a 12.8 percent rise in value accounted for entirely by an increase in gas production. 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 74 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.

In the general gas production table (Table 66), in which individual pool data are given, all the 1956 production and cumula-



TABLE 2.—Petroleum data showing percentage changes for Kansas and the United States, 1955–1956

	Y and	Koncoe Amiree	Chan previous	Change from previous year, percent
	1955	1956	Kansas	United States
Crude oil production (barrels)	121,161,234	124,467,713*	+ 2.7	+ 5.5
Value of crude on produced	\$341,674,680	\$350,998,951	+ 2.7	
Average price of oil	5.1 89.89	4.9	 33	
Rank of Kansas among oil producing states	5th	5th		
Proved reserves of liquid hydrocarbons (at year end), thousands of barrels	1,171,304b	1,163,826₺	9.0 —	+ 2.5
Ratio of proved induit inverses the reserves to current annual production	9.3:1	9.3:1		
Natural gas production, M cu. ft.	466.180.1574	525.931.757d	++12.8	+ 7.8
Value of natural gas produced	\$51,279,817	\$57,852,493	+12.8	
Production of natural gasoline and LPG (natural gas liquids), gallons	206,621,110	199,384,374	. 3.5	
value of natural gasoline and LFG Proved reserves of natural gas, millions of cubic feet	\$12,052,8981 16,293,080b	\$11,868,118 ¹	+ 	+ 6.9
Ratio of proved natural gas reserves to current annual production	34.9:1	33.4:1	-	
Gas producing area of "western Kansas", acres	2,811,510	2,902,000	+ 3.2	
New oil and gas pools discovered Recorded well completions in Kansas	1498	1794		
Ollh	2.432	9 408		
Gash	385	403		
Oil and gash		S		
Colt motor dienocall	2,052	2,349		
Unrecorded, estimated	2,6891	2,685		
Total recorded and estimated Wildcats and discovery wells (included in above total)	7,825	8,006	1	

Figures supplied by Kansas Corporation Commission, Conservation Division.

Figures from American Petroleum Institute and American Gas Association, 1956. Barrels have 42 U.S. gallons and gas is based at 14.65 psia. at 60°F.

The petroleum area of "western Kansas" is taken to include all producing counties west of the Cowley-Butler-Marion-Dickinson County tier.

Figures supplied by Kansas Corporation Commission, base 14.65 psia.

Figures supplied by Kansas Corporation Commission, base 14.65 psia.

Figures supplied by Kansas Corporation Commission, base 14.65 psia.

Figures supplied by Ransas Corporation Commission, base 14.65 psia.

Figures supplied by Ransas Corporation Commission, base 14.65 psia.

Figures supplied by Ransas Corporation Commission, base 14.65 psia.

Figures supplied by Ransas Corporation Commission of the several products that reflect wholesale prices at the plant.

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

Fincludes polo wells and new discoveries.

Fincludes salt-water disposal and recorded secondary recovery input wells.

Founties for which number of wells drilled in 1956 is entirely or in part estimated include Allen, Anderson, Bourbon, Chautauqua, Coffey, Crawford, Elk, Franklin, Greenwood, Labette, Linn, Miaml, Montgomery, Neosho, Wilson, and Woodson.

	_			•
Rank	County	Producing wells	Producing acreage	Total produc- tion, barrels
1	Barton	3,242	122,840	14,913,934
2	Ellis	2,063	68,840	11,618,360
3	Russell	2,969	83,090	9,883,069
4	Butler	3,322	72,430	8,138,153
5	Rooks	1,360	55,840	6,988,701
6	Stafford	1,400	53,360	6,231,825
7	Graham	895	34,410	6,040,225

TABLE 3.—Leading oil producing counties in Kansas during 1956

tive figures for the entire state are calculated at the same pressure base, 14.65 pounds per square inch absolute.

Kansas production of natural gas liquids during 1956 was 199.4 million gallons, 7.2 million gallons less than 1955. The value of natural gas liquids produced during 1955 was \$11,868,118. These products (natural gasoline, propane, butane, and other liquefied petroleum gases) were valued at \$2.50 per barrel during 1956, compared to \$2.45 during 1955.

The total value of Kansas raw products of the petroleum industry (crude oil, natural gas, and natural gas liquids) produced in 1956 was 420.7 million dollars, which was a new record, exceeding 1955, the previous high year, by more than 15 million dollars.

Production of carbon black during 1956 was reported as 105,-680,834 pounds valued at \$6,590,663. The increase in production and value continues the trend of the previous year.

Barton County continued to be the leading oil producing county in the state. Table 3 shows the 7 leading producing counties during 1956. Rice County was dropped out of the top 7, moving Stafford County to sixth place and Graham County into seventh place. In individual field production (Table 4) the **Trapp** field of Russell and Barton Counties was replaced in the top position by the **El Dorado** field. The other leading fields remained in the same sequence as 1955. Annual oil and gas production since 1890 is shown graphically in Figure 2.

During 1956, almost 30 million barrels of oil was imported into Kansas, and a little less than 58 million barrels was exported. Approximately 93 million barrels of oil was refined and used in Kansas. A summary of oil produced, imported, used, and exported during 1955 and 1956 is given in Table 5.

Separate detailed production tables for oil and gas are given in this bulletin (Tables 65 and 66). Each includes in alphabetical

TABLE 4.—Largest oil producing fields in Kansas during 1956

Rank	Pool	Age, years	County	Total produc- tion, barrels
1	El Dorado	41	Butler	4,358,743
2	Trapp	21	Russell-Barton	4.241,489
3	Kraft-Prusa	20	Barton-Ellsworth	3,712,498
4	Hall-Gurney	26	Russell-Barton	3,598,344
5	Chase-Silica	26	Rice-Barton-Stafford	3,482,134
6	Bemis-Shutts	s 22	Ellis	3,055,079

order all counties in the state that produce oil or gas. In Table 65 the listing of each county shows both current and known cumulative oil production, producing area, names of pools (alphabetically arranged), discovery year, producing zones, average thickness of producing zones, average gravity, reported number of producing wells, and number of producing wells plugged during 1956. Similar gas data are given in Table 66. 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 county lines every effort has been made to segregate accurately each county's production on the basis of the output of the leases themselves. All figures are compiled with reasonable diligence, but 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 11 gives the 1956 gas production and cumulative production for each of the 9 Hugoton gas producing counties. The number of wells now producing and the year in which gas was first discovered are given in Table 66. 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.

Reserves.—Kansas' proved reserves of liquid hydrocarbons (crude oil plus natural gas liquids) as of December 31, 1956, were

Table 5.—Barrels of oil produced, imported, used, and exported, 1955-1956 (From the Conservation Division, Kansas Corporation Commission)

	1955	1956
Produced	121,161,234	124,467,713
Imported	29,505,340	34,320,108
Total	150,666,574	158,787,821
Exported	57,527,501	58,713,375
Refined and used in Kansas	93,139,073	100,074,446
Total	150,666,574	158,787,821

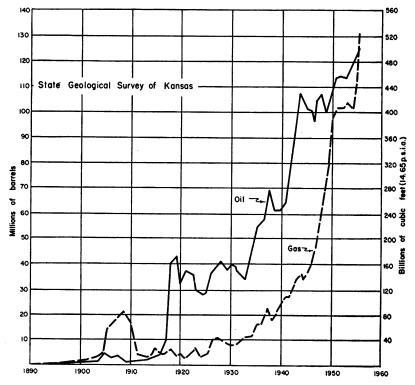


Fig. 2.—Annual oil and gas production in Kansas from 1890 to 1956.

1,163,826,000 barrels, a decrease of 0.6 percent; nationally, reserves increased 2.5 percent. Kansas' proved reserves of crude oil were 992,211,000 barrels (American Petroleum Institute—American Gas Association, 1956, p. 9) at the end of 1956, a decrease of 0.6 percent; national reserves increased 0.14 percent.

Proved reserves of natural gas in Kansas at the end of 1956 were estimated by the Reserves Committee of the American Gas Association to be more than 17,566 billion cubic feet, an increase of about 7.8 percent. Kansas' proved reserves of natural gas liquids, 171.6 million barrels, are 0.9 percent less than those of the previous year. 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 fields or the producing oil and gas area (the two overlap in

some cases) has been calculated and shown as accurately as reasonably possible. Field 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 drainage areas of many of the reservoirs extend considerably beyond the limits as indicated, but 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, only areas that were producing oil during 1956 are shown on the map and assigned acre areas in Table 65. 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 old fields, most of the areas of which are now unproductive, are shown, and productive and abandoned areas are differentiated.

New pools.—During 1956, 135 new oil fields, 35 new gas fields, and 3 that were both oil and gas fields were discovered in Kansas. Six previously abandoned fields, 5 oil and 1 gas, were revived during the year. Of the 140 new and revived oil fields, the discovery wells of 8 were carried on the scout reports as dry and abandoned; 5 of the new oil and gas fields were combined with other fields. Four newly named fields, Crandall (Coffey County, gas), Mignot (Greenwood County, oil), Gordon (Woodson County, gas), and Rose East (Woodson County, oil), had prodution previous to 1956.

Ellis County had the most new discoveries, 16 oil; Barber County followed with 12 gas and 2 oil; Stafford County had 12 oil and 1 gas; and Cowley County had 10 oil and 1 oil and gas. The number of new oil and gas fields (173) discovered during 1956 is only 9 fewer than the high set in 1953. The total number of Kansas counties that have in the past or are at present producing commercial quantities of oil or gas or both is now 82 with the addition of Rawlins and Wallace Counties this year. Pertinent data on the new pool discoveries are given in Table 6.

Table 7 summarizes new oil and gas zones discovered in old producing fields during 1956; 59 new zones were named. Data similar to those presented for new pool discoveries are also given.



TABLE 6.—New oil and gas pools discovered in Kansas during 1956

TABLE 6.	—New oil and gas pools	discovered in Kar	isas during 1	956 	
County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet		Initial produc- tion, bbl. per day
Barber County					
Aetna Northeast NE NE SE 9-34-14W	Perkins Bros. No. 1 Page	Mississippian	4,693-4,700	June	770,000 cu. ft. gas
Blunk SW SW NW 30-34-13W	E. H. Adair Oil Co. & Carter Oil Co. No. 1 Blunk	Mississippian	4,727-4,743	Jan.	5,200,000 cu. ft. gas
Blunk South NE NE SW 1-35-14W	Orville Parker & Cities Service Oil Co. No. 1 Sternberger	Mississippian	4,821-4,825	Aug.	6,000,0000 cu.ft.gas
Canema NE NE NE 24-33-11W	W. L. Hartman No. 1 Burns "A"*	Mississippian	4,553-4,583	July	1,500,000 cu.ft.gas
Driftwood SW SW SE 1-34-13W	Aylward Drlg. Co. No. 1 Donovan (Combine	Mississippian ed with Boggs SW)	4,635-4,672	Jan.	54,000,000 cu.ft.gas
E1sea SW SW SE 27-32-14W	Honaker-Davis Drlg. Co. No. 1 Elsea		4,662-4,680	Aug.	25,000,000 cu.ft.gas
Elwood NE NE SW 34-34-13W	Petroleum, Inc. No. 1 Roberts	"Elgin"	3,662-3,672	Aug.	7,340,000 cu. ft. gas
Farley Cen. NW NW 32-34-14W	W. Gruenerwald No. 1 E. A. Farley	Mississippian	4,742-4,760	Oct.	2,840,000
Highway SW SW SW 14-32-11W	Beardmore Drlg. Co. No. 1 Stewart "C"	Douglas	3,587-3,603	July	130
ILS NE NW SE 9-31-11W	Carl Todd Drlg. Co. No. 1 Smith*	Simpson	4,865	Feb.	3,270,000 cu. ft. gas
McGuire SE SE NW 24-32-11W	Mull Drlg. Co., Inc. No. 1 McGuire	Mississippian	4,403-4,423	Aug.	27,100,000
Medicine Lodge West SW SW NW 16-33-14W	Musgrove Petro. Corp. No. 1-A McGrath (Aband	Mississippian loned during 1956)	4,632-4,662	July	9,000,000 cu.ft.gas
Platt Cen.NW NW 28-33-15W	Republic Natural Gas Co. No. 1 Platt	Cherokee	4,791-4,795	Oct.	160
Sharon Northwest NW NW NW 11-32-10W	Pickrell Drlg. Co. No. 1 Slinker	Mississippian	4,347-4,357	June	8,800,000 cu.ft.gas
Barton County					
Bailey NW NE SW 30-18-11W	Thunderbird Drlg., Inc. et al. No. 1 Bailey	Arbuckle	3,396-3,417	Dec.	85
Bissel Point South SW NW SE 15-19-13W	Thunderbird Drlg., Inc. No. 1 Wood	Arbuckle	3,432-3,438	May	20
Hoisington North NE SW NW 16-17-13W	Thunderbird Drlg., Inc. No. 1 Russell	Arbuckle	3,412-3,415	Oct.	43
Klug West NE NW NW 33-17-13W	Petroleum, Inc. No. 1 Demel "D"	LansK.C.	3,149-3,177	Oct.	200
Reimer NE SE NW 25-17-15W	Oil Capitol, Inc. No. 1 Reimer	LansK.C.	3,357-3,361	May	53
St. Peter East NW SE SW 34-18-11W	Nadel & Gussman No. 1 Johanning	LansK.C.	3,116-3,130	Aug.	256
Workman North NW SW SE 16-20-12W	Petroleum, Inc. No. 1 Hulme "I"	LansK.C.	3,238-3,249	Aug.	1,696
Workman Northwest NW NW SE 21-20-12W	Roland Petl et al. No. 1 Phillips	LansK.C.	3,167-3,173	April	37
Workman West SW NW NW 28-20-12W	C-G Drlg. Co. No. 1 Anderson	Arbuckle	3,434-3,450	Aug.	73
Butler County					
Pontiac Southwest SE SE SW 23-26-6E	Twin Drlg. Co. No. 1 Jones*	Mississippian	2,780-2,790	Aug.	8
Shinn Northeast SW SW NE 17-29-8E	Charles L. Carlock No. 1 Wehrman	Mississippian	2,680-2,715	March	25
Chautauqua County					
Hewins Northwest SW SW SW 27-34-9E	Glick No. 1 Harvey	Mississippian	2,072-2,078	July	196,000 cu. ft. gas
Rich NE NE NE 16-33-9E	Continental Oil Co. No. 1 Rich	Mississippian	2,285-2,315	April	20

INTRODUCTION

During 1956 several new records were established in the Kansas petroleum industry. New highs were established in crude oil and natural gas value and production. Because of an increase in production of crude oil and natural gas, the dollar value of these resources exceeded all previous records.

Eighty-two Kansas counties have produced or are producing oil or gas, 2 more than in 1955. Rawlins County was added with the finding of oil in the Lansing-Kansas City group, and Wallace County with new gas reserves in Morrowan strata.

Stimulating the development in western Kansas was the completion of a large number of Mississippian wells in the Spivey-Grabs field of Harper and Kingman Counties, in various new Kiowa County fields, and in new and old fields in Barber County. Of special significance is the development of additional Lansing-Kansas City production (Warner fields) on the flanks of the Cambridge arch in Decatur County. The discovery of the South Side field (Morrowan) gave Kearny County its second oil field. The Panoma field discovery gave Stevens County a new gas zone, the Council Grove group. New Meade County Morrowan gas discoveries were important 1956 developments. Activity continued at a rapid pace in the Greenwood Gas Area and Interstate fields of Morton County.

Of importance to eastern Kansas during 1956 was the continued search for Arbuckle and Mississippian production in Montgomery, Chautauqua, Labette, and Elk Counties. The completion of several additional Viola wells in the John Creek and Comisky Northeast fields of Morris County during the year has made that area attractive for exploration. Development of a large number of "Hunton" field wells in the Unger and Unger Southwest fields and Mississippian wells in the Beauty and Lost Springs fields raised Marion County to the ranks of those counties having more than 200 completions during 1956. Cowley County exploration for additional "Bartlesville" and Mississippian production (367 new wells) led the state in that phase of the industry.

The **El Dorado** field of Butler County was the leading oil producing field in the state during 1956, replacing the Trapp field of Russell and Barton Counties.

Ellis County led all other counties in the number of new fields discovered with 16 new oil fields. Other counties with a large



number of new field discoveries are: Barber 12 gas, 2 oil; Stafford 12 oil, 1 gas; and Cowley 10 oil, 1 oil and gas.

Crude oil production reached a new high, but proved reserves of crude oil declined slightly.

Natural gas production increased 12.8 per cent from 1955, and the production of natural gas liquids declined 3.5 percent. Proved reserves of natural gas increased 7.8 percent, but proved reserves of natural gas liquids declined 0.9 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 regarded as "oil and gas territory".

A condensed petroleum data table (Table 2) shows at a glance the trends of 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.—The 124,467,713 barrels of oil produced in Kansas during 1956 is 3,306,479 barrels more than the 1955 figure and represents a new high in total annual oil production. The 2.7 percent increase in value of crude oil, from 241.7 to 350.9 million dollars, is due entirely to the increase in oil production.

Natural gas production during 1956 increased 12.8 percent from the previous year to 525.9 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 \$51,279,817 in 1955 to \$57,852,493 in 1956, a 12.8 percent rise in value accounted for entirely by an increase in gas production. 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 74 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.

In the general gas production table (Table 66), in which individual pool data are given, all the 1956 production and cumula-



TABLE 2.—Petroleum data showing percentage changes for Kansas and the United States, 1955–1956

	Zonoz	Voncoe Ammee	Chan previous y	Change from previous year, percent
	1955	1956	Kansas	United States
Crude oil production (barrels)	121,161,234	124,467,713	+ 2.7	+ 5.5
Kansas oil production as percentage of U.S. total	\$341,674,680 5.1	\$350,998,951 4.9	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Average price of oil Bonk of Konses among oil producing states	\$2.82	\$2.82		1
Froved reserves of liquid hydrocarbons (at year end), thousands of barrels	1,171,304	1,163,826 ^b	9.0	+ 2.5
ratio of proved figura nyarocarbon reserves to current annual production Oil producing area of "western Kansas", acres	9.3:1	9.3:1 839.9 60 e	4	
Natural gas production, M cu. ft.	466,180,1574	525,931,757 ^d	+12.8	+ 7.8
value of natural gas produced Production of natural gasoline and LPG (natural gas liquids), gallons	\$51,279,817° 206.621.110ª	\$57,852,493° 199.384.374ª	+12.8	
Value of natural gasoline and LPG	\$12,052,8981	\$11,868,118	1.5	
Ratio of proved natural gas reserves to current annual production	34.9:1	33.4:1	+	7.0 +
Gas producing area of "western Kansas", acres	2,811,510	2,902,000	+ 3.2	
new on and gas poors discovered. Recorded well completions in Kansas	149	1671		
Oijh Gaeb	2,432	2,408		
Oil and gash	999			
Dry	2,052	2,349		
Salt-water disposal! Unrecorded, estimated	267 2,6891	128 2,685 ¹		
Total recorded and estimated Wildcats and discovery wells (included in above total)	7,825	8,006	1	

Figures supplied by Kansas Corporation Commission, Conservation Division.

Figures from American Petroleum Institute and American Gas Association, 1956, Barrels have 42 U.S. gallons and gas is based at 14.65 psla. at 60°F.

The petroleum area of "western Kansas" is taken to include all producing counties west of the Cowley-Butler-Marion-Dickinson County tier.

Figures supplied by Kansas Corporation Commission, base 14.65 psla.

Figures supplied by Kansas Corporation Commission, base 14.65 psla.

Figures supplied by Kansas Corporation Commission, base 14.65 psla.

Figures supplied by Kansas Corporation Commission for the Hugoron Gas Area effective January 1. 1954, has been applied to all Kansas Gas production.

Fincindes pool wells and new discoveries.

Includes salt-water disposal and recorded secondary recovery input wells.

Counties for which number of wells drilled in 1956 is entirely or in part estimated include Allen, Anderson, Bourbon, Chautauqua, Coffey, Crawford, Elk, Franklin, Greenwood, Labette, Linn, Manni, Montgomery, Neosho, Wilson, and Woodson.

Rank	County	Producing wells	Producing acreage	Total produc- tion, barrels
1	Barton	3,242	122,840	14,913,934
2	Ellis	2,063	68,840	11,618,360
3	Russell	2,969	83,090	9,883,069
4	Butler	3,322	72,430	8,138,153
5	Rooks	1,360	55,840	6,988,701
6	Stafford	1,400	53,360	6,231,825
7	Graham	895	34,410	6,040,225

TABLE 3.—Leading oil producing counties in Kansas during 1956

tive figures for the entire state are calculated at the same pressure base, 14.65 pounds per square inch absolute.

Kansas production of natural gas liquids during 1956 was 199.4 million gallons, 7.2 million gallons less than 1955. The value of natural gas liquids produced during 1955 was \$11,868,118. These products (natural gasoline, propane, butane, and other liquefied petroleum gases) were valued at \$2.50 per barrel during 1956, compared to \$2.45 during 1955.

The total value of Kansas raw products of the petroleum industry (crude oil, natural gas, and natural gas liquids) produced in 1956 was 420.7 million dollars, which was a new record, exceeding 1955, the previous high year, by more than 15 million dollars.

Production of carbon black during 1956 was reported as 105,-680,834 pounds valued at \$6,590,663. The increase in production and value continues the trend of the previous year.

Barton County continued to be the leading oil producing county in the state. Table 3 shows the 7 leading producing counties during 1956. Rice County was dropped out of the top 7, moving Stafford County to sixth place and Graham County into seventh place. In individual field production (Table 4) the **Trapp** field of Russell and Barton Counties was replaced in the top position by the **El Dorado** field. The other leading fields remained in the same sequence as 1955. Annual oil and gas production since 1890 is shown graphically in Figure 2.

During 1956, almost 30 million barrels of oil was imported into Kansas, and a little less than 58 million barrels was exported. Approximately 93 million barrels of oil was refined and used in Kansas. A summary of oil produced, imported, used, and exported during 1955 and 1956 is given in Table 5.

Separate detailed production tables for oil and gas are given in this bulletin (Tables 65 and 66). Each includes in alphabetical Rank

1

23

4

5

6

Hall-Gurney

Chase-Silica

Bemis-Shutts

Total produc-tion, barrels Pool Age, years County 4,358,743 El Dorado 41 **Butler** 4,241,489 3,712,498 3,598,344 Trapp 21 Russell-Barton Kraft-Prusa 20 Barton-Ellsworth

Ellis

Russell-Barton

Rice-Barton-Stafford

3,482,134

3.055.079

TABLE 4.—Largest oil producing fields in Kansas during 1956

26

26

order all counties in the state that produce oil or gas. In Table 65 the listing of each county shows both current and known cumulative oil production, producing area, names of pools (alphabetically arranged), discovery year, producing zones, average thickness of producing zones, average gravity, reported number of producing wells, and number of producing wells plugged during 1956. Similar gas data are given in Table 66. 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 county lines every effort has been made to segregate accurately each county's production on the basis of the output of the leases themselves. All figures are compiled with reasonable diligence, but 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 11 gives the 1956 gas production and cumulative production for each of the 9 Hugoton gas producing counties. The number of wells now producing and the year in which gas was first discovered are given in Table 66. 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.

Reserves.—Kansas' proved reserves of liquid hydrocarbons (crude oil plus natural gas liquids) as of December 31, 1956, were

Table 5.—Barrels of oil produced, imported, used, and exported, 1955-1956 (From the Conservation Division, Kansas Corporation Commission)

1955	1956
121,161,234	124,467,713
29,505,340	34,320,108
150.666.574	158,787,821
	58,713,375
93,139,073	100,074,446
150,666,574	158,787,821
	121,161,234 29,505,340 150,666,574 57,527,501 93,139,073

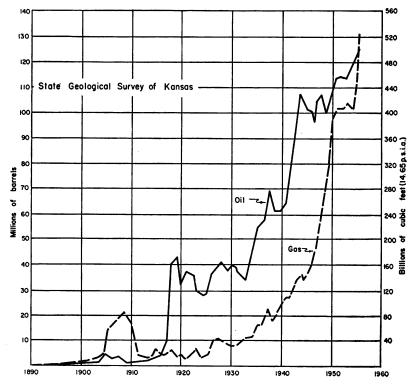


Fig. 2.—Annual oil and gas production in Kansas from 1890 to 1956.

1,163,826,000 barrels, a decrease of 0.6 percent; nationally, reserves increased 2.5 percent. Kansas' proved reserves of crude oil were 992,211,000 barrels (American Petroleum Institute—American Gas Association, 1956, p. 9) at the end of 1956, a decrease of 0.6 percent; national reserves increased 0.14 percent.

Proved reserves of natural gas in Kansas at the end of 1956 were estimated by the Reserves Committee of the American Gas Association to be more than 17,566 billion cubic feet, an increase of about 7.8 percent. Kansas' proved reserves of natural gas liquids, 171.6 million barrels, are 0.9 percent less than those of the previous year. 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 fields or the producing oil and gas area (the two overlap in

some cases) has been calculated and shown as accurately as reasonably possible. Field 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 drainage areas of many of the reservoirs extend considerably beyond the limits as indicated, but for practical purposes the areas have been calculated on the basis of lines drawn just outside the productive area demonstrated by present development.

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Table 7 summarizes new oil and gas zones discovered in old producing fields during 1956; 59 new zones were named. Data similar to those presented for new pool discoveries are also given.



TABLE 6.—New oil and gas pools discovered in Kansas during 1956

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	Initial produc- tion, bbl per day
Barber County					
Aetna Northeast NE NE SE 9-34-14W	Perkins Bros. No. 1 Page	Mississippian	4,693-4,700	June	770,000 cu. ft. ga:
Blunk SW SW NW 30-34-13W	E. H. Adair Oil Co. & Carter Oil Co. No. 1 Blunk	Mississippian	4,727-4,743	Jan.	5,200,000 cu. ft. ga
Blunk South NE NE SW 1-35-14W	Orville Parker & Cities Service Oil Co. No. 1 Sternberger	Mississippian	4,821-4,825	Aug.	6,000,000 cu.ft.ga
Canema NE NE NE 24-33-11W	W. L. Hartman No. 1 Burns "A"*	Mississippian	4,553-4,583	July	1,500,000 cu.ft.ga
Driftwood SW SW SE 1-34-13W	Aylward Drlg. Co. No. 1 Donovan (Combine	Mississippian	4,635-4,672	Jan.	54,000,00
Elsea	Honaker-Davis Drlg. Co.	Mississippian	4,662-4,680	Aug.	cu. ft. ga 25,000,00
SW SW SE 27-32-14W Elwood NE NE SW 34-34-13W	No. 1 Elsea Petroleum, Inc.	"Elgin"	3,662-3,672	Aug.	cu. ft. ga 7,340,00
Farley	No. 1 Roberts W. Gruenerwald	Mississippian	4,742-4,760	Oct.	cu.ft.ga: 2,840,000
Cen. NW NW 32-34-14W Highway	No. 1 E. A. Farley Beardmore Drlg. Co. No. 1 Stewart "C"	Douglas	3,587-3,603	July	130
SW SW SW 14-32-11W ILS	Carl Todd Drlg. Co.	Simpson	4,865	Feb.	3,270,00
NE NW SE 9-31-11W McGuire	No. 1 Smith* Mull Drlg. Co., Inc.	Mississippian	4,403-4,423	Aug.	cu.ft.ga 27,100,00
SE SE NW 24-32-11W Medicine Lodge West	No. 1 McGuire Musgrove Petro. Corp.	Mississippian	4,632-4,662	July	9,000,00
SW SW NW 16-33-14W Platt	No. 1-A McGrath (Aband Republic Natural Gas Co.	oned during 1956)	4,791-4,795	Oct.	cu. ft. ga
Cen.NW NW 28-33-15W Sharon Northwest	No. 1 Platt Pickrell Drlg. Co.	Mississippian			-
NW NW NW 11-32-10W	No. 1 Slinker	Mississippian	4,347-4,357	June	8,800,00 cu.ft.ga
Barton County					
Bailey NW NE SW 30-18-11W	Thunderbird Drlg., Inc. et al. No. 1 Bailey	Arbuckle	3,396-3,417	Dec.	8
Bissel Point South SW NW SE 15-19-13W	Thunderbird Drlg., Inc. No. 1 Wood	Arbuckle	3,432-3,438	May	2
Hoisington North NE SW NW 16-17-13W	Thunderbird Drlg., Inc. No. 1 Russell	Arbuckle	3,412-3,415	Oct.	4
Klug West NE NW NW 33-17-13W	Petroleum, Inc. No. 1 Demel "D"	LansK.C.	3,149-3,177	Oct.	20
Reimer NE SE NW 25-17-15W	Oil Capitol, Inc.	LansK.C.	3,357-3,361	May	5
St. Peter East	No. 1 Reimer Nadel & Gussman	LansK.C.	3,116-3,130	Aug.	25
NW SE SW 34-18-11W Workman North	No. 1 Johanning Petroleum, Inc.	LansK.C.	3,238-3,249	Aug.	1,69
NW SW SE 16-20-12W Vorkman Northwest	No. 1 Hulme "I" Roland Petl et al.	LansK.C.	3,167-3,173	April	3
NW NW SE 21-20-12W Workman West	No. 1 Phillips C-G Drlg. Co.	Arbuckle	3,434-3,450	Aug.	7
SW NW NW 28-20-12W	No. 1 Anderson			J	
Butler County					
Pontiac Southwest SE SE SW 23-26-6E	Twin Drlg. Co. No. 1 Jones*	Mississippian	2,780-2,790	Aug.	
Shinn Northeast SW SW NE 17-29-8E	Charles L. Carlock No. 1 Wehrman-	Mississippian	2,680-2,715	March	2
Chautauqua County					
Hewins Northwest SW SW SW 27-34-9E	Glick	Mississippian	2,072-2,078	July	196,00
Rich NE NE NE 16-33-9E	No. 1 Harvey Continental Oil Co. No. 1 Rich	Mississippian	2,285-2,315	April	cu. ft. ga 2

TABLE 6.—New oil and gas pools discovered in Kansas during 1956, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet		Initial produc- tion, bbl. per day
Clark County					
Snake Creek East Cen. SE NE 24-34-21W	The Pure Oil Co. No. 1 Harper "D"	Morrowan	5,480-5,496	Dec.	360
Coffey County					
Crandall NW SE SW 6-23-16E	Crooks & Waddell No. 1 Vielguth	Mississippian	1,022-1,027	June 1953	650,000 cu.ft.gas
Cowley County					
Albright SE SE NE 3-34-5E	H & M Drlg. Co. et al. No. 1 Albright	Mississippian	3,126-3,136	May	85
Albright North SE SE NE 34-33-5E	H & M Drlg. Co. & Coop. Ref. Ass'n. No. 1 G. E. Brown"A"	Mississippian	3,116-3,124	Aug.	60
Biddle Northwest NE NW SE 1-32-4E	O. A. Sutton No. 1 Morris	"Bartlesville"	2,878-2,892	June	25
Cambridge SE SE NW 33-31-7E	Avesh Oil Co., Inc. No. 1 Kraft & Kelso	"Layton"	2,041-2,044	March	D&A
Falls City Northwest NW NE SE 11-35-6E	McNeish & Gralapp	Mississippian	3,055-3,071	Oct.	5
Hackney SW SW NE 19-33-4E	No. 1 Evans Continental Oil Co.	Mississippian	3,246-3,258	April	45
Kanok	No. 1 Winfield Airport W. M. Pitts	Mississippian	3,172-3,176	March	40
Cen. S½ SW NW 15-35-5E	Robert L. Jones	Mississippian	3,164-3,178	Feb.	136
NE ŇE SW 21-33-4E Rauckman NE NE SW 18-34-3E	No. 1 Collinson* F. W. Strait No. 1 Rauckman	"Bartlesville"	3,358-3,364	Jan.	1,000,000 ft. gas & 25
Rippe SW SW SW 14-35-3E	L.C. Smitherman Drlg. Co	."Bartlesville"	3,418-3,424	Oct.	40
Walnut Bend North NE NW SW 36-33-4E	No. 1 Rippe Richard King, Jr. No. 1 Mueller	Mississippian	3,188-3,196	July	5
Werner (revived) NW SW SE 31-32-6E	Richard King, Jr. No. 1 Werner (31-32-6E)**	"Layton"	2,460-2,473	Feb.	8
Decatur County					
Van Vleet NW NE NW 9-1-27W	Cities Service Oil Co. No. 1 Van Vleet	LansK.C.	3,356-3,365	June	31
Warner NE NE SW 11-1-27W	Cities Service Oil Co. No. 1 Werner "E"	LansK.C.	3,324-3,341	May	330
Warner North SE SE NE 2-1-27W	Sauvage & Dunn Drlg. Co. Inc. No. 1 Kilzer (Combi	,LansK.C. ned with Warner)	3,465-3,472	Dec.	57
Dickinson County					
Bonaccord Northeast SW SW NE 29-14-1E	Willis Waterman et al. No. 1 Emig "A"	"Burgess"	2,502-2,505	Nov.	35
Edwards County					
Fatzer SE SE SE 15-26-17W	Anschutz Drlg. Co., Inc. No. 1 Fatzer	Viola	4,676-4,678	Dec.	12
Salser SW SW NW 12-26-16W	F. Kirk Johnson No. 1 Salser	Mississippian	4,398-4,420	Jan.	40
Trousdale SE SE NW 21-26-16W	Aurora Gasoline Co. & L. C. Smitherman Drlg. Co. No. 1 Schultz	Cherokee .	4,486-4,490	April	232
Trousdale South	Sunray Mid-Continent	Cherokee	4,472-4,477	Dec.	5,304,000
NE NE SW 33-26-16W Wayne NE NE NE 28-24-17W	Oil Co. No. 1 King D. R. Lauck Oil Co., Inc. & Sunray Mid-Continent Oil Co. No. 1 Cross	Mississippian	4,368-4,384	Nov.	cu.ft.gas 50



TABLE 6.—New oil and gas pools discovered in Kansas during 1956, continued

	v oil and gas pools disco		J, -		Initial
County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of dis- covery	produc- tion, bbl. per day
Elk County					
Adams (revived) NE NE SW 29-29-13E	Cro Archer	"Burgess"	1,680-1,683	June	1,133,000 cu. ft. gas
Roby SW SW SW 20-28-9E	Phillips Petro. Co., et al. No. 1 Roby	Arbuckle	2,873-2,876	Aug.	32
Ellis County					
Boos NW SE SW 20-15-17W	Continental Oil Co. No. 1 Boos	Arbuckle	3,532-3,537	March	117
Dechant (revived) NE NE NW 7-15-18W	Thunderbird Drlg., Inc. No. 1 Urban	Arbuckle	3,627-3,633	Sept.	19
Engel NE SE NW 34-14-18W	Colorado Oil & Gas Corp. No. 1 Engel	Arbuckle	3,612-3,616	May	596
Engel West SW SW NW 33-14-18W	Tomilson & Kathol No. 1 Engel*	LansK.C.	3,368-3,372	Nov.	14
Heyl NE NE NW 20-14-17W	Aledo Oil & Gas Co., Inc. No. 1 Heyl	Arbuckle	3,513-3,520	Feb.	31
Leiker North SW SE NW 2-15-18W	Don Pratt No. 1 Leiker "A"	Arbuckle	3,601-3,606	Nov.	100
Lieb NE NW SW 17-11-16W	Frontier Oil Co. No. 1 Lieb*	Arbuckle	3,356-3,363	March	83
North SE SW SW 20-15-20W	Don Pratt & Armer Drlg. Co., Inc. No. 1 North	Penn. basal congl.	3,862-3,867	Aug.	202
Pleasant North (revived) NW NE NW 36-13-20W	W. J. Coppinger No. 1 Engel	Arbuckle	3,842-3,854	July	700
Potter SW NW SE 20-11-16W	Franco Central Oil Co. No. 1 Potter	Arbuckle	3,309-3,316	Sept.	265
Richards (revived) Cen. NW 5-11-18W	N.C.R.A. No. 1 Cleve	LansK.C.	3,466	Nov.	140
Riverview South SE SW SW 32-11-18W	Coop. Ref. Ass'n. & J. B. Hawley No. 1 Johnson "Z"	LansK.C.	3,367-3,372	Dec.	oil
Schmeidler Southeast NW NE SW 34-12-17W	K & E Drlg., Inc. & Oil Trading Corp. No. 1 Schmidt "B"	LansK.C.	3,330-3,352	J an.	200
Schoenchen Townsite SW SW NE 28-15-18W	Osage Oil & Gas Co., Inc. No. 1 Herklatz	LansK.C.	3,255-3,259	Jan.	123
Schoenchen West SW SW NW 21-15-18W	The El Dorado Refg. Co. No. 1 Roth	Penn. basal congl.	3,580-3,585	Aug.	30
Seitz SE SE SW 2-13-16W	Franco Central Oil Co. No. 1 Seitz	LansK.C.	3,222-3,230	Sept.	18
Sweet William Northwest NW SE SW 4-12-20W		LansK.C.	3,739-3,747	Dec.	243
Wagner NW NW SW 36-14-16W	Petro. Management, Inc. & L. B. Stableford No. 1 Wagner	Arbuckle	3,420-3,427	May	88
Walter Northwest SW SW NW 3-12-18W	Osage Oil & Gas Co., Inc. No. 1 Schumacher	LansK.C.	3,491-3,503	Jan.	10
Ellsworth County					
Hoch SE NE NW 19-15-10W	Birmingham & Bartlett Drlg. Co. No. 1 Hoch (Abandoned e	Arbuckle during 1956)	3,304-3,305	Мау	3
Finney County					
Pleasant Prairie Northwest NE NE SW 30-26-34W	Helmerich & Payne, Inc. No. 1-30 U.S.A.	Mississippian	5,125-5,142 5,168-5,174	Dec.	200
Sequoyah Cen. SW NE 17-23-34W	Champlin Refg. Co. No. 2 Leavitt	Morrowan	4,694-4,704	Aug.	177

TABLE 6.—New oil and gas pools discovered in Kansas during 1956, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet		Initial produc- tion, bbl. per day
Ford County					
Konda Cen. NW SW 11 -27- 22W	The Pure Oil Co. & Ohio Oil Co. No. 1 Anna Konda	Mississippian	5,010-5,042	Nov.	44
Graham County					
Brassfield NW NW NE 2-10-22W	Fortier & Brown & K & E Drlg., Inc. No. 1 Brassfield	LansK.C.	3,688-3,733	Aug.	364
Evergreen NE NW NW 22-9-23W	Petroleum, Inc. No. 1 Goddard	LansK.C.	3,711-3,713	Jan.	30
Hatcher NW NE NE 6-9-21W	Jones, Shelburne & Farmer, Inc. No. 1 Hatcher	Arbuckle	3,722-3,730	Aug.	16 0
Lacerte NW NE SW 32-10-22W	Petroleum, Inc. & Colorado Oil & Gas Corp. No. 1 Lacerte Unit	LansK.C.	3,602-3,606	Feb.	61
Greenwood County					
Mignot NW NW NW 9-22-11E	Inland Oil, Inc. No. 1 Mignot	"Bartlesville"	1,921-1,931	May 195	51 5
Harper County					
Banner South NW SW NE 4-33-7W	Roland L. Pelt et al. No. 1 Henness	Misener	4,848-4,851	Feb.	1,408
Sunny View South SW SW SW 2-31-9W	Rupp-Ferguson Oil Co. No. I Miller (Combined w	Mississippian	4,460-4,465	Jan.	35
Wildcat Creek Cen. SW NE 30-34-6E	J. M. Huber Corp. & Continental Oil Co. No. 1 Denton-Fox	Simpson	5,217-5,219	March	D&A
Harvey County					
Burrton East SE SE NW 28-23-3W	Stelbar Oil Corp., Inc. No. 1 Becker	Mississippian	3,302-3,322	Nov.	5
Burrton North SE SE SE 32-22-3W	W. L. Hartman No. 1 Harrison	Mississippian	3,280-3,295	June	1,100,000 cu.ft.gas
Hodgeman County Hallet	Kewanee Oil Co.	Mississippian	4,598-4,638	Oct.	250
SW NE SE 15-22-25W	No. 1 Larkin				
Wieland SE SE SW 16-21-22W	Mayfair Minerals, Inc. No. 1 Wieland	Mississippian	4,380-4,388 4,396-4,404	Dec.	100
Kearny County South Side NE SW NW 13-26-35W	Helmerich & Payne, Inc. No. 4 White "O"	Morrowan	4,966-4,974	June	108
Kingman County					
Georgia Spur NE NE NE 7-28-6W	Aurora Gasoline Co. No. 1 Greenleaf	Mississippian	3,836-3,846	Jan.	D&A
Goetz NW NW SW 29-29-9W	Pryor & Tracy & D & M Drlg. Co., Inc. No. 1 Goetz	Viola	4,408-4,414	June	24,000,000 cu.ft.gas
Settle SE SE SE 18-29-7W	George Siegrist No. 1 Settle	Mississippian	4,110-4,121	Sept.	2,400,000 cu.ft.gas
Kiowa County			4 240 4 224	0.4	0.700.000
Greensburg NE NE NE 35-27-18W	Anschutz Drlg. Co., Inc. No. 1 Stewart	"Kinderhook"	4,742-4,754	Oct.	2,738,000 cu. ft. gas
Greensburg Northeast SE SE SW 17-27-17W	Aurora Gasoline Co. No. 1 Campbell	Mississippian	4,675-4,698	Oct.	4,150,000 cu.ft.gas
Hardy NE NW NE 23-28-18W	Kewanee Oil Co. No. 1 Hardy	Mississippian	4,804-4,840	May	540,000 cu. ft. gas
Kane VE NE NE 12-30-18W	Gramehart-Miller Oil Co. No. 1 Kane Ranch	Mississippian	4,908-4,916	Oct.	6,750,000 cu.ft.gas



2.1020 0. 1.00	ou and gas pools disco-				
County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet		Initial produc- tion, bbl. per day
Logon County					
Logan County Oakley NW SE SW 3-11-32W	Buick Drlg., Inc. et al. No. 1 Bertrand	Marmaton	4,600-4,605	March	D&A
Marion County					
Antelope South SW NW SE 4-19-4E	Herndon Drlg. Co. No. 1 Schimpf	Missisisppian	2,371-2,380	June	12
Antelope Southeast SE SE NE 2-19-4E	Hover & Hodson No. 1 Loveless	Mississippian	2,337-2,345	May	15
Beauty SE SE NW 34-18-4E	Sunflower Drlg. Co. & John Hannah No. 1 Utting	Mississippian	2,295-2,308	Feb.	15
Beauty South NW SW SE 3-19-4E	John Hannah No. 2 Batchelor	Mississippian	2,313-2,322	Dec.	D&A
Doyle Creek	Anderson-Prichard Oil	"Hunton"	2,912-2,915	Nov.	11
SW NE SW 31-21-3E Ratzlaff Cen. SW SE 7-19-2E	Corp. No. 2 Kent E. K. Carey Drlg. Co., Inc. No. 1 Ratzlaff	Viola	3,135-3,140	Feb.	88
Unger Southwest SW SW SE 7-21-3E	E. K. Carey Drlg. Co., Inc. No. 1 Warkentin	"Hunton"	2,812-2,819	Jan.	3,000
McPherson County					
Harmac East NW SE SE 36-21-3W	Time Petro. Co. No. 1 Waltner	"Hunton"	3,528-3,530	Aug.	10
Round Hill SW SW SW 28-18-1W	Greenland Drlg. Co. No. 1 Johnson	Cherokee	2,832-2,841	May	25
Meade County					
Angell Cen. SE SE 30-32-29W	Sinclair Oil & Gas Co. No. 1 Mamie E. Angell	Morrowan	5,608-5,664	Aug.	800,000 cu.ft.gas
Fincham Cen. N½ SW NE 14-35-27V	Monsanto Chem. Co. & VRine Drlg. Co. No. 1 Marion	Mississippian (Chesteran)	6,275-6,307	Dec.	& 21 30,000,000 cu. ft. gas
Horace Cen. SE SE 9-34-29W	Monsanto Chem. Co. No. 1 Horace	Morrowan	5,815-5,826	Oct.	1,500,000 cu. ft. gas
Plains Cen. SW SW 17-32-30W	Coop. Ref. Ass'n. & Wakefield No. 1 Baty "A"	Morrowan	5,611-5,644	Dec.	7,900,000 cu.ft.gas
Sanders SE NW NE 13-32-29W	The Texas Co. No. 1 Sanders	Mississippian (Chesteran)	5,550-5,590	Oct.	9,153,000 cu.ft.gas
Singley South Cen. SE NE 32-33-29W	The Texas Co. No. 1 Fox	Morrowan	5,810-5,818 5,830-5,838	Dec.	31
Morris County					
Comiskey Northeast NW NW NW 24-16-9E	Kuper Oil Co. No. 1 Sam Teel	Viola	2,929-2,932	March	192
Ness County					
Brownell NW NW SE 23-16-22W	Welch & Olsson Drlg. Co., Inc.	Cherokee	4,341-4,345	May	11
Cruce SE SE SE 4-19-26W	No. 1 Walker Barnett Drlg., Inc. No. 1 Ward	Mississippian	4,556-4,561	May	78
Ryersee Cen. NW SE 35-18-21W	Stickle Drlg. Co. No. 1 Ryersee	Cherokee	4,100-4,122	June	197
Schoharie SE SE SE 22-19-23W	Anschutz Drig. Co., Inc. & Kan-Tex Drillers, Inc. No. 1 Cooper	Marmaton	4,272-4,330	May	72
Wellmanville NW NW SW 34-19-21W	Welch & Olsson Drlg. Co., Inc. & N. Appleman Co. No. 1 Moore	Mississippian	4,419-4,423	Jan.	D&A

TABLE 6.—New oil and gas pools discovered in Kansas during 1956, continued

County, pool, and	w on ana gas poots aisco			Month	Initial produc-
location of discovery well	Discovery well	Producing zone	Production depth, feet	of dis-	tion, bbl. per day
Pawnee County					
Evers South NW NW NE 12-22-16W	Graham-Messman-Rine- hart Oil Co. No. 1 Catherine Boyd	Arbuckle	3,920-3,929	March	4,151,000 cu.ft.gas
Godrey NE NE SW 12-22-18W	Welch & Olsson Drlg. Co., Inc. No. 1 Godrey	Penn. basal congl.	4,127-4,133	Sept.	D&A
Jay South NE NE SW 9-23-15W	Stickle Drlg. Co. No. 1 Jay T. Smith	Simpson	4,101-4,107	June	25
Larned Southwest SE SE SE 5-22-16W	A. F. Brann No. 1 Bahl	Arbuckle	3,850-3,855	March	127
Newsom NW NE NE 25-20-20W	Honaker-Davis Drlg. Co. No. 1 Newsom	Mississippian	4,270-4,278	Nov.	25
Pratt County Carver-Robbins Northeast NW NW SE 10-27-15W	Osage Oil & Gas Co., Inc. No. 1 Cochran	Penn. basal congl.	4,400-4,409	Nov.	131
Cullison NW NW SE 25-28-15W	Bankoff Oil Co. No. 1 Johnson	Mississippian	4,543-4,556	Jan.	800,000 cu.ft.gas & 120
Haskins NE NW NE 5-27-14W	K & E Drlg., Inc. No. 1 Haskins	Viola	4,418-4,426	June	227
Rawlins County					
Brumm NE SE SW 7-2-36W	Miami Oper. Co. No. 1 F. Brumm "A"	LansK.C.	4,312-4,329	June	30
Rice County Bredfeldt Northwest	Iron Drlg. Co.	Arbuckle	3,250-3,255	April	29
NE NW NE 12-18-10W Humphreys	No. 1 Bredfeldt Sterling Drlg. Co.	Penn. basal congl.	3,272-3,288	Aug.	3,210,000
SE SE SW 3-21-8W Orth North	No. 1 Humphreys* Iron Drlg. Co.	Arbuckle	3,262-3,270	May	cu. ft. gas
SE NE NW 23-18-10W	No. 1 Boldt	Albackie	3,202-3,210	May	21
Rooks County	Oil Warding Acres Inc	I ama W.C.	2 400 2 400	T	
Annon South SE NE NW 34-10-20W	Oil Trading Assoc., Inc. No. 2 Briggs (Combined v		3,486-3,490	June	28
Cresson NW SW NE 11-9-20W	Jones, Shelburne & Farmer, Inc. No. 1 Baldwin	Arbuckle	3,618-3,626	Oct.	120
Gra-Rook North SW NW NE 18-9-20W	K & E Drlg., Inc. No. 2 Town Est.	Arbuckle	3,746-3,760	June	281
Trarbach NE SW NW 36-10-20W	Francis Oil & Gas, Inc. No.1 Trarbach (Combine	Arbuckle d with Marcotte)	3,680-3,687	Feb.	39
Williams North SE SE SW 32-9-18W	Osage Oil & Gas Co., Inc. No. 1 Stucky		3,714-3,717	Nov.	95
Rush County					
Lohrey SW SW SW 35-17-17W	Aylward Drlg. Co. No. 1 Lohrey	Penn. basal congl.	3,563-3,570 3,574-3,598	Dec.	6,700,000 cu.ft.gas
Pechanec SE NW NE 2-19-17W	Skelly Oil Co. No. 1 H. Pechanec	Arbuckle	3,842-3,853	Oct.	15
Ryan West SW SW NE 32-19-16W	Ben F. Brack Oil Co., Inc. No. 1 Weber	Arbuckle	3,804-3,817	Jan.	15
Webs Southwest NW NW SW 16-19-20W	Natural Gas & Oil Corp. No. 1 O. J. Williams "B"	Cherokee	4,302-4,304	Aug.	59
Russell County					
Driscoll (revived) NE SE SW 30-15-11W	Jerry Driscoll No. 1 Fee (30-15-11W)**	Penn. basal congl.	3,303-3,305	Jan.	25
Kune NE SE SW 17-13-15W	A. F. Schmitt No. 1 McKune	LansK.C.	3,004-3,009 3,013-3,018 3,189-3,194	Dec.	50



TABLE 6.—New oil and gas pools discovered in Kansas during 1956, continued

discovery well	Discovery well	Producing zone		Month of dis- covery	Initial produc- tion, bbl. per day
	Discovery wen				
Worley NW NW NE 4-11-15W	Western Dev. Co. No. 1 Worley	LansK.C.	3,204-3,209	March	5
Sedgwick County					
Brumley Northwest SE SE SW 12-29-1W	Beardmore Drlg. Co. No. 1 Smith	Mississippian	3,303-3,315	Aug.	25
Chambers Northeast NE NE SW 2-29-2W	Pickrell Drlg. Co. No. 1 Struthers "A"	Mississippian	3,570-3,575	Sept.	240
Gladys Southwest NE SE NW 7-29-1E	E. H. Adair Oil Co. No. 1 Deffner	Kansas City	2,828-2,829	Feb.	30
Greenwich Northeast NE NW SE 1-26-2E	James Tasheff & Sam Marcus No. 1 Edson	Mississippian	2,827-2,832	April	50
Latta North SE SE SW 33-29-2W	Beardmore Drlg. Co. No. 1 Lauterbach	LansK.C.	3,117-3,122	Sept.	120
Seward County					
Plains West SW NE NE 16-32-31W	Southwestern Explor. Co. No. 1 Collins	Morrowan	5,600-5,614	Nov.	21.000 000 cu.ft.gas
Sheridan County					
Advance NW NW NW 26-8-27W	Heathman-Seelig-on Drlg. Co. No. 1 Brown "A"	LansK.C.	3,883-3,892	June	513
Hoxie NW NW NW 6-9-28W	Heathman-Seeligson Drlg Co. No. 1 Decker "A"	.Toronto	3,810-3,816	Sept.	581
Stafford County					
Dillwin SW SW SW 16-24-14W	D. R. Lauck Oil Co., Inc. & Sunray Mid-Cont. Oil Co. No. 1 Smith	Arbuckle	4,295-4,301	Jan.	265
Farmington North NW NW SW 23-24-15W	D. R. Lauck O'l Co., Inc. & Sunray Mid-Cont. Oil Co. No. 1 Fergus	"Kinderhook"	4,120-4,205	Jan.	3,500,000 cu.ft.gas
Farmington Northwe ⁻ t NW NW SW 29-24-15W	Anschutz Drlg. Co., Inc. No. 1 Ackerman	LansK.C.	3,904-3,912	Oct.	88
Gates North SE SE SE 22-21-13W	D. R. Lauck Oil Co., Inc. No. 1 Schulz "C"	Arbuckle	3,634-3,638	Sept.	25
Harter North NE SW SE 19-24-13W	Natural Gas & Oil Corp. No. 1 Dudrey	LansK.C.	3,785-3,790	June	176
Knoche South NW NW SE 17-24-12W	Anschutz Drlg. Co., Inc. No. 1 A. Byer	Viola	3,884-3,886	Oct.	D&A
Krankenberg SW SW SE 19-22-12W	Transit Corp. & Monsanto Chem. Co. No. 1 Krankenberg	Simpson	3,711-3,716	March	126
Leiss SW SW NE 23-25-13W	No. 1 Krankenberg Welch & Olsson Drlg. Co., Inc. & Sunray Mid-Cont. Oil Co. No. 1 Leiss	Simpson	4,215-4,222	Feb.	235
Moody SE SE NE 7-25-14W	Apache Oil Corp. No. 1 Moody	Mississippian	4,168-4,182	April	115
Rattlesnake East NW NW SE 7-24-13W	Petroleum, Inc. No. 1 Henderson	LansK.C.	3,694-3,700	Feb.	1,393
Seevers Northwest NE SE NW 6-25-13W	McKnab Drlg., Inc. No. 1 Goodman	Arbuckle	4,192-4,196	June	205
Shepherd Northwest NE SW SE 8-22-11W	Petroleum, Inc. No. 1 Erickson "B"	Simpson	3,528-3,536	· Oct.	43
White Cloud NE SW NE 28-22-11W	Anschutz Drlg. Co., Inc. No. 1 Curtis	Arbuckle	3,636-3,638	April	70
Stevens County					
Hanke Cen. SE NW 6-35-36W	Repub'ic Natural Gas Co. No. 1 Hanke	Morrowan	6,267-6,330	May	7,500,000 cu. ft. gas
Panoma NE NW SE 12-31-38W	Hugoton Prod. Co. No. 2-12 Panoma	Council Grove	2,843-2,963	Dec.	16,124,000 cu.ft.gas
Sumner County					
Beatie NE NE NE 21-31-2W	Gulf Oil Corp. No. 1 Beatie	Simpson	4,189-4,192	May	25

Table 6.—New oil and gas pools discovered in Kansas during 1956, concluded

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet		Initial produc- tion, bbl. per day
Latta Northwest SE SW SW 5-30-2W	Ted Ferrier No. 1 Van Allen	Kansas City	3,172-3,176	April	116
Meek SE SE NW 10-35-1E	The Pure Oil Co. No. 1 G. C. Meek	"Cleveland"	3,228-3,246	June	45
Portland South NE SW NE 28-34-1E	Southwest Oil Corp. No. 2 Unruh	"Layton"	3,040	July	15
Thomas County					
Kindig NE NE SE 30-8-32W	Bachus Oil Co. & The Veeder Sup. & Develop. Co. No. 1 Kindig	Cherokee	4,595-4,626	Мау	401
Trego County					
Adair Southwest NW NW SW 28-12-21W	Davis Bros. No. 1 Ridgeway	Marmaton	3,856-3,866	May	29
Kroeger SE NW SE 36-13-21W	Transit Corp. No. 1 Kroeger	Arbuckle	3,937-3,941	Feb.	25
Newcomer NE NE SW 12-12-23W	Imperial Oil of Kansas, Inc. No. 1 Newcomer	LansK.C.	3,733-3,736	March	3,000
Newcomer Northwest SW SW SE 2-12-23W	Imperial Petro. Co., Inc. No. 1 Hixson	LansK.C.	3,763-3,768	June	1,642
Page Creek SE SE SE 28-15-22W	Century Prod. Co. & K & E Drlg., Inc. No. 1 Tipton Est.	Cherokee	4,260-4,265	Aug.	128
Rhoden SW SW NE 24-12-23W	Imperial Oil of Kansas, Inc. No. 1 Rhoden "A"	LansK.C.	3,764-3,770	Мау	37
Wallace County					
Sexson NW NE SW 19-13-42W	Skelly Oil Co. No. 1 N. D. Sexson	Morrowan	5,008-5,014	Aug.	14,000, 00 0 cu.ft.gas
Woodson County			•		
Annabelle SW NE NE 32-25-15E	Thunderbird Drlg., Inc. No. 1 Corkery	"Squirrel"	1,173-1,178	Nov.	25
Gordon Cen. NW SE 13-24-15E	Joe Phillips et al. No. 1 Gordon	"Squirrel"	1,080-1,096	Jan. 1954	1,500,000 cu.ft.gas
Rose East SE NW NW 16-26-16E	St. Croix Oil Co. & A. J. Brazil No. 2 McGregor	"Bartlesville"	1,109-1,124	Aug. 1954	22

^{*}Old well worked over.

Abandoned and combined fields.—There were 10 fields officially abandoned in 1956. Data on the discovery wells and cumulative productions of the abandoned fields are included in the county write-ups. During 1956 also, 72 oil or gas fields were combined with other fields. As has been the custom of the Survey, the outline of an abandoned field is omitted from the maps in this bulletin.

TABLE 7.—New oil or gas zones in old producing fields, 1956

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet		Initial produc- tion, bbl. per day
Barber County Bloom	F H Adain Oil Co	Mississippion	4 210 4 240	Tuno	25
NE NE NW 23-32-12W	E. H. Adair Oil Co. No. 1 Bloom**	Mississippian	4,310-4,340	June	25

^{**}Location of original discovery well.

TABLE 7.—New oil or gas zones in old producing fields, 1956, continued

TABLE 1.—	ivew on or gus zones in i	oid producing field	8, 1936, com	muea	
County, pool, and ocation of liscovery well	Discovery well	Producing zone	Production depth, feet		Initial produc- tion, bbl. per day
ittle Bear Creek SE SE NE 10-32-14W	Purcell & Mull No. 1 Barckley	Viola	4,670-4,680	Nov. 1954	12,400,000 cu. ft. gas
Salt Fork NW NW NW 3-35-15W	The Chicago Corp. No. 1 Davis Ranch*	Marmaton	4,780	March 1955	695,000 cu.ft.gas
Barton County					
Great Bend Northwest SE SW NW 19-19-13W	Honaker Drlg. Co. & Amerada Petro. Corp. No. 1 Wallace	Arbuckle	3,460-3,465	March	344
Kimpler SW NE NE 31-18-11W	Thunderbird Drlg., Inc. No. 1 Kimpler "C"	LansK.C.	3,184-3,187	Jan.	300
Nuss NW NW SE 5-16-14W	Rudy Herman No. 1 Nuss	Arbuckle	3,387-3,395	May	25
Red Brick SW NE NW 26-19-13W	J. A. Terteling & Sons & Coop. Ref. Assn. No. 1 Nicholson	Penn. congl.	3,414-3,416	Aug.	25
Redwing East SE SE NE 32-17-12W	Bennett & Roberts Drlg., Inc.	LansK.C.	3,120-3,125	Jan.	25
Workman North SE NW NW 16-20-12W	No. 1 Hoeffner Petroleum, Inc. No. 1 Hulme "D"	Arbuckle	3,442-3,448	Oct.	30
Coffey County					
Finnerty Cen. N½ SW NW 12-21-13	F. E. Lockhart ENo. 3 Davis	"Peru"	1,382-1,392	July	. 7
Comanche County					
Beals SW SW SE 32-33-17W	Pure Oil Co. No. 1 Parks	Simpson	5,670-5,687	April	35,200,000 cu.ft.gas
Cowley County					
Frog Hollow East SE SW SE 12-32-5E	Beaumont Petro. Co. No. 2 J. H. Hawley	Mississippian	3,077-3,097	March	15
Rainbow Bend North- east NW SW SE 15-33-3E	W. L. Hartman No. 1 Smith "B"	Mississippian	3,284-3,300	Jan. 1955	25
Werner NE NE NW 6-33 -6 E	Petro. Management, Inc. No. 1 Craig	Mississippian	3,074-3,082	Nov.	675
Wilmot-Floral SW SW SW 30-31-5E	Renfro Drlg. Co. No. 1 Tanner*	"Cattleman sand"	2,880	Jan.	7,000,000 cu.ft.gas
Decatur County					
Warner North NE NE SE 2-1-27W	Cities Service Oil Co. No. 3 Sater (Combined w	Penn. sand ith Warner)	3,483-3,491	Sept.	41
Edwards County					
Embry NE NE NW 22-24-16W	Branine-Holl No. 1 Zuercher	"Kinderhook"	4,292-4,330	April	3,700,000 cu.ft.gas
Ellis County					
Engel SW NE NW 34-14-18W	Colorado Oil & Gas Corp. No. 2 Engel	LansK.C.	3,350-3,356	Aug.	497
Engel SW SW NE 34-14-18W	Colorado Oil & Gas Corp. No. 2 Engel "A"	"Penn. basal sand"	3,621-3,636	Aug.	60
Irvin South NE NE NE 17-14-19W	Sterling Drlg. Co. & Fred Nixson No. 1 Kramer*	LansK.C.	3,660-3,665	April	100 est.
Leiker Southeast NE NW NE 23-15-18W	Frontier Oil Co. No. 2 Gross "A"	LansK.C.	3,292-3,311	Aug.	95
Solomon SE SW NE 28-11-19W	Skelly Oil Co. No. 2 G. R. Solomon*	Wabaunsee	3,013-3,017	Jan.	140
Ubert Northwest SW NW NW 1-13-18W	Alpine Oil & Gas Corp. No. 4 Crissman "A"	LansK.C.	3,339	May 1953	30
Wheatland Southeast NW SE NE 29-15-17W	Coop. Ref. Assn. No. 2 Schiefelbein	LansK.C.	3,335-3,349	Dec.	· 44

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County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet		Initial production, bbl. per day
Ellsworth County Stoltenberg Cen. SE SW 23-16-10W	D. T. Ingling et al. No. 1 Zitzman	Simpson	3,379-3,381	March 1954	15
Hodgeman County Saw Log Creek Cen. NE SE 36-23-22W	Atlantic Ref. Co. No. 2 Hall	Cherokee	4,478-4,486	April	83
Kearny County South Side NE SW NW 13-26-35W	Helmerich & Payne, Inc. No. 4 White "O"	Mississippian	4,982-4,990	Sept.	180
Kingman County Basil NW NW NE 22-29-7W	Coppinger Drlg., Inc. No. 1 Hanscome	Mississippian	4,150-4,154	Feb.	4,930 ,900 cu. ft. ga s
Gilchrist SW NE NE 15-30-7W	Pure Oil Co. No. 1 J. X. Kinert	Mississippian	4,084-4,119	Jan.	1,260,000 cu.ft.gas
Kiowa County Well ^c ford NW SE 16-28-16W	The El Dorado Ref. Co. No. 1 Kinney	Mississippian	4,729-4,739	Jan.	6,160 ,000 cu. ft. gas
McPherson County Johnson South NW SW SE 11-20-3W	Bob Jones No. 1 Krehbiel	Simpson	3 514-3,520	Мау	25
Meade County Bond	James Donoghue	Mississippian	5,860-5,886	Мау	8,800,000
Cen. NW NW 4-34-30W Stevens Cen. SE SW 35-32-30W	No. 1 Schell Colorado Oil & Gas Corp. No. 9 Holmes	(Chesteran) Mississippian (Chesteran)	5,713-5,754	Oct.	cu.ft.gas 3,500,000 cu.ft.gas & 20
Morton County Taloga Cen. NW 34-34-42W	Panhandle Eastern Pipe Line Co. No. 1-34 Land Bank*	Cherokee Morrowan	3,894-3,902 4,442-4,450	April &	18,900,000 2 19,391,000 cu.ft.gas
Ness County	Mamalia Datus, Ca	Marmakan	4 005 4 000	A	100
Aldrich Northeast SW SW SW 23-17-25W Aldrich Northeast	Magnolia Petro. Co. No. 3 John C. Shearer Magnolia Petro. Co.	Marmaton Penn. congl.	4,325-4,329 4,334-4,344	April Dec.	186 D&A
NE NW NW 19-17-24W Ryersee SE NE SW 35-18-21W	No. 1 Schaben Stickle Drlg. Co. No. 1 Lank	Mississippian	4,209-4,215	Sept.	125
Pawnee County Hearn SE SW SE 26-23-15W	Natural Gas & Oil Corp. No. 1 Walker	Arbuckle	4,130-4,135	May	25
Pratt County Haskins NE NW NE 5-27-14W	K & E Drlg., Inc. No. 1 Haskins	LansK.C.	4,118-4,126	Sept.	227
Rice County Chase-Silica SE SW SW 3-20-10W	T. H. Mastin & Ben. C. W. Hyde, Jr. & I·ern Drig. Co. No. 1 Keesling	"Basal Penn. sand"	3,355-3,363	Feb.	50
Rooks County Webster	Skelly Oil Co.	Shawnee	3,180-3,192	Jan.	26
SE SE NW 4-9-19W Williams North NE NE NW 5-10-18W	No. 5 Rostocil Osage Oil & Gas Co., Inc. No. 1 Wise	(Toronto) Arbuckle	3,725-3,728	Nov.	81



County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet		Initial produc- tion, bbl. per day
Sedgwick County Brumley SE SE SW 18-29-1E	Shawver-Armour, Inc. No. 1 Huffman	LansK.C.	2,863-2,865	April	20
Seward County					
Wide Awake Cen. NE SW 33-34-34W	Westhoma Oil Co. No. 1 Keeting	Mississippian (Chesteran)	6,168-6,215	Aug.	2,000,000 cu. ft. gas
Stafford County					
Bayer SE SE NW 21-21-14W	Gulf Oil Corp. No. 1 Russell	Viola	3,702-3,712	April	132
Bayer NW SW NE 21-21-14W	D. R. Lauck Oil Co., Inc. No. 1 Titus	Simpson	3,736-3,749	March	150
Farmington SW SE NW 34-24-15W	Skelly Oil Co. No. 1 Campbell*	Simpson	4,378-4,384	April	50
Farmington Northwest SE NE SE 30-24-15W	Carter Oil Co. No. 1 Seibert	"Kinderhook"	4,272-4,282	Nov.	887,000 cu.ft.gas & 50
Lincoln Northwest NE NW NE 29-21-14W	Phillips Petro. Co. No. 3 Lincoln "A"	Viola	3,705-3,743	April	25
Pundsack North S½ SW SE 18-21-13W	Stanolind Oil & Gas Co. No. 1 Fisher*	LansK.C.	3,494-3,502	Oct.	351
Radium Townsite NW SW SW 33-21-14W	Hilton Drlg. Co., Inc. No. 1 Strobel	Viola	3,754-3,766	Dec.	222
Ratt'esnake East NW SW SE 7-24-13W	Petroleum, Inc. No. 2 Henderson	Mississippian	3,880-3,884	Aug.	7,326,000 cu. ft. gas
Sand Hills NE NW SW 19-21-11W	Lee Phillips No. 1 Smith	Simpson	3,481-3,486	Nov.	25
Seevers Northwest NW SW NE 6-25-13W	Natural Gas & Oil Corp. No. 1 Seevers	LansK.C.	3,826-3,829	Aug.	125
Taylor SW NE NE 10-21-14W	Lewis Drlg. Co. No. 1 Shepherd	LansK.C.	3,482-3,487	Jan.	198
Sumner County					
Bitter Creek S1/2 SW SW 1-35-1E	Alpine Oil & Royalty Co., Inc. No. 4 Ramp	Stalnaker	2,364-2,381	Jan.	5,000,000 cu. ft. gas
Padgett Cen. SE SE 34-34 2E	A. W. Holiday Oil Co. No. 1 Olson	Marmaton	3,187-3,195	April	1,000,000 cu. ft. gas
Rutter NE NE SE 20-33-2E	Shawver-Armour, Inc. No. 1 Wright	"Bartlesville"	3,268-3,278	July	5
Woodson County					
Vernon NW NW 33-23-16E	Peters Drlg. Co., et al. No. 1 Glade	"Squirrel"	1,068-1,074	Sept.	25

^{*} Old well worked over.

Wells drilled during 1956.—There were 5,321 wells recorded as being drilled in the state during 1956. 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 2,685 such unreported wells (including 196 input wells in Table 1) were drilled in 1956. Of the reported tests, 2,408 were oil wells, 403 were gas wells, 33 were oil and gas wells, 2,349 were dry and abandoned holes, and 128 were salt-water disposal or input wells drilled in connection with secondary recovery operations. New

field discoveries and revivals accounted for 179 of the oil and gas wells; 778 of the dry holes were dry wildcat tests.

In each of 7 Kansas counties more than 200 wells were recorded as drilled in 1956. For the first time in many years, Cowley County led all others with 367 new wells. Following in order were Ellis (332), Barton (273), Graham (273), Marion (270), Stafford (249), and Barber (217). These 7 counties accounted for 37 percent of the total number of recorded wells drilled in the state during 1956.

Test wells drilled within 1½ miles of the outside boundaries of producing fields are called "extension wells" and are not shown on the 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. Tables of dry wildcat wells for counties having 4 or more such tests during 1956 are included in the county write-ups.

The tops of the various 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 other sources of information have been used to determine the tops of the formations. These include the Kansas Sample Log Service, Independent Oil and Gas Service, drillers logs, and other sources within the Survey.

Because field 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 1956 completions are those that have been finished within the year and that have been drilled to completion in one operation. Old wells worked over, although completed as producing wells, are not counted as 1956 completions. The wells abandoned in 1956 as dry and then converted to salt-water disposal have 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 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 1956 and locations of secondary recovery projects.

Developments in eastern Kansas in 1956 included the search for shallow reservoir rocks in which commercial wells can be completed by hydraulic fracturing methods, and increased drilling for Arbuckle and Mississippian production in Chautauqua, Elk, Labette, and Montgomery Counties. Exploration east of the Nemaha anticline in Morris County for additional Viola fields was significant. Some fields were opened, some joined, and some extended.

Much oil is produced in eastern Kansas by secondary recovery methods, especially water flooding. In 1956 the total oil production by secondary recovery methods, including an estimate of those projects not reporting specifically, exceeded 15.1 million barrels. Data on secondary recovery operations are listed in Table 1.

Acknowledgments.—C. C. Linley, J. P. Roberts, S. S. Greider, H. A. Beverlin, and C. H. Peebles of the Conservation Division of the State Corporation Commission have for a long time cooperated to the fullest extent with the State 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 Anderson-Prichard Oil Corporation; Beaumont Petroleum Company; A. L. Becker; Bison Oil Company; Marvin E. Boyer; Carter Oil Company; Chanute Property Management Corporation, Inc.; Cities Service Oil Company; Mack C. Colt; Continental Oil Company; Cooperative Refinery Association; The Derby Refining Company; The El Dorado Refining Company; Virgil Gamble; Joplin Refining Company; Joe Maclaskey; W. L. Maclaskey; Mid-America Refining Company; Robert Page; Sinclair Oil and Gas Company; Sinclair Oil and Refining Company; Skelly Oil Com-



pany; Standard Oil Purchasing Company; Stekoll Petroleum Company; Lester Town; White Eagle Purchasing Company, Inc., (now Mobil Crude Oil Purchasing Company); and Vickers Petroleum Company.

Thanks are given to the various members of the Kansas Nomenclature Committee, Kansas-Oklahoma Division of the Mid-Continent Oil and Gas Association, for supplying 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 persons and companies also contributed gas production figures for the year.

Many persons engaged in various phases of the petroleum industry in Kansas have been generous in providing data that have been used in this report. Here should be listed John A. Edwards, Lee Garrett, Thomas W. Lee, J. H. Page, Carl L. Pate, W. L. Stryker, Charles W. Studt, and Harvel White.

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 supplying a large part of the crude oil production figures, and from D. R. Dwight of Dwight's Oil and Gas Reports, who made available the production figures for the Hugoton Gas Area.

SECONDARY RECOVERY

Repressuring of oil-bearing rocks by injection of water, air, 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 (now **Seeley-Wick**) of northern Greenwood County in May 1935. Pointing up the significance of



County	Number of projects, 1956	Total oil production, 1956, bbl.	Est. secondary recovery oil production 1956, bbl.
Allen	12	844,728	557,198
Anderson	7	658,605	567,688
Butler	29	8,138,153	4,080,185
Franklin	5	347,569	290,028
Greenwood	46	6,788,601	5,365,49
Miami	10	674,580	448,771
Montgomery	16	748,019	377,502
Neosho	13	638,149	490,261

TABLE 8.—Data on eight counties producing oil by secondary recovery in 1956

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 15.1 million barrels in 1956, accounting for about 12.2 percent of the state's total production that year. The reported production for 1956 totaled 11,619,573 barrels, and the figure of 15.1 million barrels 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 217 projects listed reported a total of 6,999 wells producing oil by secondary recovery methods and 4,302 wells utilized as input wells for injection of a repressuring medium. Of the total projects reporting, 182 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 1956, the projects in Greenwood County produced more than 5.3 million barrels of oil. The projects in Butler County, the second largest producer of oil by secondary recovery methods, yielded more than 4.0 million barrels. These 2 counties accounted for more than half the oil produced through repressuring projects in Kansas.

The following zones listed in the order of their importance provided the bulk of the oil produced 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 3 main ones are sandstones of the Douglas group, Arbuckle dolomite, and the "Bartlesville sand".



Principal sources of fresh water are shallow ground-water reservoirs, lakes, streams, and municipal water supplies. Where combined fresh and salt water is used, the brine is obtained commonly from the local oil-producing formation. Treatment of salt water includes aeration, addition of chemicals, settling, and filtration, singly or in various combinations. Fresh water requires treatment more commonly than brines. Such treatment includes addition of lime, chlorine, or 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 come 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 are based on the considerations of the greatest good to the greatest number of people and on economic investment values. Considering these bases, Kansas, ranking fifth 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 natural resource within the state's borders, arguing that exportation of our natural gas is depleting our reserves. A significant portion of our annual gas production is being exported; however, estimates of domestic and industrial use of natural gas within the state have risen over the past few years.

Production and use.—The amounts of natural gas produced from the principal Kansas fields during 1956 are shown by coun-



ty in Table 66. Production in the "eastern Kansas" fields, which reached their peak production about 50 years ago, was less than 1 percent, and production from the **Hugoton Gas Area** in southwestern Kansas was more than 74 percent of the state's total for 1956.

Marketed natural gas production for the West North Central district (Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota) reported by the Bureau of Mines for 1956 totaled 455,000,000 thousand cubic feet. Consumption by residential use was estimated to be 272,200,000; by commercial use, 96,500,000; and by industrial use, 548,100,000 thousand cubic feet. No more detailed breakdown on the use within Kansas is available at this time.

The Conservation Division of the Kansas Corporation Commission reports that use of natural gas in the manufacture of carbon black in Kansas during 1956 was 8,286,680 thousand cubic feet.

New developments.—Table 6 shows that 38 new gas fields (35 gas and 3 oil and gas) were named in Kansas in 1956. Of the new fields 20 produce gas from the Mississippian rocks and 5 from Morrowan strata. Counties with significant new gas fields include Barber, Edwards, Kingman, Kiowa, Meade, Seward, Stevens, and Wallace Counties. The Nichols field in Kiowa County and the Taloga field in Morton County were placed under proration in 1956.

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 9.

TABLE 9.—Production	from the	Kansas part o	f Hugoton	Gas Area, 1941-1956
	,	Purit of	,	

Year	M cu. ft. gas (14.65 psia)	Year	M cu. ft. gas (14.65 psia)
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
1947	157,663,036	1955	394,257,153
1948	185,872,594	1956	381,874,779

The Defenders and Traders Gas Company's successful gas well in 1922, in sec. 3, T. 35 S., R. 34 W., Seward County, has been accredited as the discovery well of the **Hugoton Gas Area** proper. The well opened the Liberal gas field, which has since been joined to the **Hugoton Gas Area**. Rapid development of the huge gas reservoir in southwestern Kansas came in the early 1940's. The number of producing gas wells in the field passed the 2,000 mark, and the area reached 2 million acres by the end of 1949. At the end of 1956 there were 3,673 producing gas wells, and the area of the Kansas part of the **Hugoton Gas Area** was about It includes 2 entire counties (Stevens and 2,655,940 acres. Grant) and parts of 7 others (Finney, Hamilton, Haskell, Kearny, Morton, Seward, and Stanton). Revised figures on the number of wells drilled each year since 1949 and the cumulative totals are given in Table 10.

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 county cumulative totals have been prepared for this bulletin. These data are given in Table 11.

The **Hugoton Gas Area** has been limited by definition by the Kansas Nomenclature Committee to gas producing formations in the Chase group of the Permian System. The lateral stratigraphic or structural features of the gas producing area are not clearly known, and the outline of the producing area changes with

TABLE 10.—Gas wells drilled in Hugoton Gas Area since 1949, by counties

	1948	1949	1950	1951	1952	1953	1954	1	1955	1	1956
	Cumu- lative	Drilled	Cumu- lative	Drilled	Cumu-						
Finney	86	76	47	19	49	73	72	49	471	49	520
Grant	334	89	36	68	29	6	5	3	570	2	572
Hamilton	4	2	1	8	8	10	4	0	37	2	39
Haskell	171	42	39	33	30	27	39	40	421	19	440
Kearny	204	71	51	56	75	72	44	27	600	26	626
Morton	86	6	52	62	27	31	14	9	287	20	307
Seward	48	41	91	51	10	19	42	21	323	18	341
Stanton	125	9	17	25	7	27	24	0	234	0	234
Stevens	545	77	63	16	17	4	20	5	747	10	757
Total	1,603	413	397	338	252	269	268	154	3,690	146	3,836

County	Cumulative production to end of 1955, M cu. ft.	1956 production M cu. ft.	Cumulative production to end of 1956, M cu. ft.
Finney	213,810,531	38,048,847	251,859,378
Grant	697,226,348	77,166,752	774,393,100
Hamilton	17,982,317	4,297,064	22,279,381
Haskell	251,148,182	31,391,477	282,539,659
Kearny	467,553,533	63,479,195	511,032,728
Morton	215.085.601	25,320,554	240,406,155
Seward	151,946,961	24,894,277	176,841,238
Stanton	90,309,329	15,136,779	105,446,108
Stevens	1,376,626,786	102,139,834	1,478,766,620
Total	3,481,689,588	381,874,779	3,843,564,367

TABLE 11.—County production and cumulative total, Hugoton Gas Area*

each new well drilled on the borders. Plate 3 shows the approximate boundaries of the **Hugoton Gas Area** as outlined at the end of 1956 by wells having reported initial daily capacity of 1 million cubic feet or more. Gas wells drilled previous to 1956 are not shown on Plate 3. The porosity of the rocks of the Chase group in the **Hugoton Gas Area** seems to control productivity.

Wells having initial capacity of less than 1 million cubic feet per day after acidization may not be saved by the larger companies; wells 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 1 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. There is little surface evidence of a huge gas reservoir because of this wide spacing.

Gas from the **Hugoton Gas Area** is of fairly good quality as indicated by Table 12. It yields about 0.5 gallon of natural gasoline condensate per thousand cubic feet and has a heating value of about 1,000 B.t.u. per cubic foot. Most of the natural gasoline plants are within the borders of the **Hugoton Gas Area**, as are the 2 operating carbon black plants.

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

^{*} Base 14.65 psia.

Table 12.—Average natural gas analysis from Hugoton Gas Area (From Keplinger, Wanenmacher, and Burns, 1948)

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

Natural gasoline and other liquefied petroleum gas production.—There were 15 natural gasoline plants reported operating in Kansas at the end of 1956, the same as for the previous year. The daily average production of natural gasoline and LPG in 1956, as reported by the Conservation Division of the Kansas Corporation Commission, was 12,971 barrels, compared to 13,478 for the previous year. A list of producing plants and types of production is given in Table 13. The state's output during 1956, broken down into 4 main products, together with estimated value at the plant, is shown in Table 14. Production from Kansas plants for the last 12 years is shown in Table 15.

The use of LPG with natural gas in the production of carbon black has increased from 211,794 barrels in 1955 to 352,594 during 1956.

Low-cost temporary storage is one of the major problems facing the expanding LPG industry. This problem, created by the seasonal demand for the product, has been partly solved as the result of experiments that have been in progress over the last few years. These consist of injecting LPG into wholly or partly depleted sand bodies, which may be salt-water, gas, or distillate. Recently, and especially in Kansas, LPG has been stored in underground cavities washed out of the salt beds.

Reserves of natural gas and natural gas liquids.—During 1955 proved reserves of natural gas in Kansas (as estimated by the Reserves Committee, American Petroleum Institute, and American Gas Association) increased 7.8 percent, and the natural gas reserves for the nation increased 6.2 percent. Kansas' reserves were estimated to be about 17.6 trillion cubic feet of natural gas as of January 1, 1957. Hydrocarbon liquids contained in the proved reserves of gas are slightly less than 172 million barrels, a decrease of 0.9 percent. Estimates are given in Table 16.



TABLE 13.—Natural gasoline and LPG processed in 1956* (From the Conservation Division, Kansas Corporation Commission)

•	•				
	Natural gasoline	Butane	Propane	LPG	Total
Cities Service Oil Company			···		
Burrton, Reno Co.	59,686		15,859	55,049	130,594
Wichita, Sedg. Co.	379,042		176,130	117,230	672,402
Colorado Interstate Gas Co.					
Lakin, Kearny Co.	95,218				95,218
Drillers Gas Company					
Cheney, Sedg. Co.	19,997			8,686	28,683
Dunn-Mar Oil & Gas Compan	ıy				
Otis, Rush Co.	29,775	3,890			33,665
Hugoton Production Company	7				
Ulysses, Grant Co.	172,468	107,952	144,926		425,346
Kansas-Nebraska Nat. Gas Co					
Deerfield, Kearny Co.	102,194		2,302	13,624	118,120
Kansas Power & Light Co.					
Medicine Lodge, Barber Co.	. 75,092				75,092
Magnolia Petroleum Co.					
Ulysses, Grant Co.	171,165	73,591	90,569		335,325
Northern Natural Gas Co.					
Holcomb, Finney Co.	114,259				114,259
Sublette, Haskell Co.	308,175				308,175
Panhandle East. Pipe Line Co					
Liberal, Seward Co.	512,845	215,424	137,235		865,504
Skelly Oil Co.					
Cunningham, Kingman Co.	43,034			42,642	85,676
Stanolind Oil & Gas Co.				-	-
Ulysses, Grant Co.	426,802	390,975	561,598		1,379,375
The Texas Company	•	-	•		
Atlanta, Cowley Co.	40,934			38,875	79,813
Total	2,550,686	791,832	1,128,619	276,110	4,747,247
DAILY AMEDA	CE EOD	VEAD 10	EC 190711	LL1_	
DAILY AVERA			•		
DAILY AVERA	GE FOR	YEAK 19	55—13,478 1	obis.	

TABLE 14.—Production and estimated value of natural gas liquids in Kansas, 1956*

	Barrels	Gallons	Price per barrel	Value
Natural gasoline	2,550,686	107,123,812	\$2.50	\$6,376,715
Propane	1,128,619	47,401,998	\$2.50	\$2,821,548
Butane	791,832	33,256,944	\$2.50	\$1,979,580
LPG	276,110	11,596,620	\$2.50	\$ 690,275
Total	4,747,247	199,384,374	•	\$11,868,118

^{*} Production figures supplied by Kansas Corporation Commission.

^{*} Figures in 42-gallon barrels.

1948

1949

1950

1945-1956* Production. Production. Year Year M gals. M gals. 1945 182,932 72,637 1951 1946 82,591 1952 196,462 1947 99,195 1953 211,657

1954

1955

1956

193,783

206,621

199,384

TABLE 15.—Kansas production of natural gasoline and allied products, 1945–1956*

107,563

113,807

155,233

Two important features of the reserve picture in Kansas at the end of 1956 are: (1) new discoveries and extensions of proved areas are being made more rapidly than 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 gasoline for motor vehicles and fuel for industrial and domestic use. The energy contained in natural gas liquids also has a potential use in the manufacture of plastics.

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

Table 16.—Kansas proved reserves of natural gas and natural gas liquids, December 31, 1956 (American Petroleum Institute and American Gas Association, 1956)

Reserves* as of 12-31-55	Extensions and revisions 1956	New dis- coveries 1956	Production during 1956	Proved reserves 12-31-56	Nonassociated, associated, and dissolved	Changes in recerves during 1956	Percentage change 1955-1956
173,236	2,111 1 652 569	1,944 195 316	5,676 577,750	171,615 17 566 257		1,621	0.9 +7.8
	Reservas of	Beserves* 32.31-55 12-31-55 12-31-55 Extension and revision	Bytension Bytension 1956 coveries 1956	Beserves as of 12-31-55 as of 12-31-55 as of 12-31-55 as of 12-31-55 and revision a	Reserves 12-31-55 Extension 13-31-55 Extension 13-31-55 Extension 13-31-55 13-31-56 Extension 13-31-56 13-31-56 13-31-56 17-31-56 17-31-56 17-31-56 17-31-56	Reserves* as of 12-31-55 12-31-55 12-31-55 12-31-56 1956 1956 1957 1956 1956 1956 1956 1956 1956 1956 1956	## Reserves* ## Reserves* ## Soft

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

^{*} Figures from 1945 through 1948 from World Oil (1951, p. 154). Figures from 1949 through 1956 supplied by Kansas Corporation Commission.

figures in Table 16 and other reserve figures used in this bulletin conform to the policy on reserves of the Reserves Committee 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 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 this country have been maintained and increased for many years by current new developments despite high annual consumption.

MAPS

Figure 1 is an index map of Kansas showing in a general way the oil and gas producing areas.

Three maps are presented on the same scale showing all the oil and gas producing areas in Kansas. Eastern Kansas, defined as that area east of the Sixth Principal Meridian (except Harvey, Sedgwick, and Sumner Counties), is shown on Plate 1. Plate 2 shows the area west of the Meridian to range 20 west. The large gas producing area and oil fields of western Kansas, west of range 20 west, are shown on Plate 3.

West of the Meridian the entire area designated as a field is shown on the map. In eastern Kansas, Plate 1, only those parts of the fields that produced oil during 1956 are 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. No gas producing areas are shown on Plate 1.



ALLEN COUNTY

(Map Pl. 1)

The 1956 production from 36 areas in 10 fields: oil 844,728 barrels including an estimated 557,198 barrels from secondary recovery operations, gas 135,665 thousand cubic feet. Wells drilled in 1956 (estimated): oil 227, dry 45, repressuring 61, total 333.

Developments during 1956.—Oil production in Allen County increased almost 5 percent over that reported in 1955. It is estimated that drilling activity was considerably more than it had been the year before. Production from secondary recovery projects accounted for most of the increase in the county's higher total oil recovery.

The Neosho Falls field was combined with Leroy field, now designated the Neosho Falls-Leroy field by action of the Kansas Nomenclature Committee.

Oil production in Allen County fields is listed in Table 65; gas in Table 66. Locations of areas from which oil was produced in 1956 are shown on Plate 1. Secondary recovery data are listed in Table 1.

ANDERSON COUNTY

(Map Pl. 1)

The 1956 production from 21 areas in 8 fields: oil 658,605 barrels including an estimated 567,688 barrels from secondary recovery operations. Wells drilled in 1956 (estimated): oil 57, dry 28, repressuring 31, total 116.

Developments during 1956.—Anderson County's oil production in 1956 was 658,605 barrels, somewhat less than the 732,416 barrels reported the previous year. It is estimated that 6 more wells were drilled in the county during 1956 than during 1955.

Oil production in Anderson County fields is listed in Table 65. Locations of areas that produced oil in 1956 are shown on Plate 1. Secondary recovery data are listed in Table 1.

BARBER COUNTY (Map Pl. 2)

The 1956 production from 51 fields: oil 1,934,933 barrels, gas 50,-113,968 thousand cubic feet. Wells drilled in 1956: oil 34, gas 87, oil and gas 5, dry 90, repressuring or salt-water disposal 1, total 217 including 26 dry wildcats. Reworked wells: oil 2, gas 6, dry 3. Fields discovered 14, combined 2, abandoned 1.



Developments during 1956.—Oil production in Barber County increased more than 4 percent over that of 1955. Gas production increased more than 300 percent. Drilling activity, concentrated chiefly in the **Boggs Southwest**, **Hardtner**, and **Rhodes** fields, resulted in completion of 217 wells, 9 more than were completed during the previous year.

There were 14 new fields uncovered in the county during 1956. Ten new Mississippian gas fields were named during the year. These are the Aetna Northeast, Blunk, Blunk South, Canema, Driftwood, Elsea, Farley, McGuire, Medicine Lodge West, and Sharon Northwest. Of these, the Driftwood was combined with the old Boggs Southwest, and the Medicine Lodge West was abandoned in September with no reported production. Other combinations during the year include Medicine Lodge and Boggs, now called Medicine Lodge-Boggs.

The **Elwood** field was named as having "Elgin" gas production, and in the **ILS** field the Simpson was found to contain commercial quantities of gas. The new **Highway** and the **Platt** fields were designated as new Douglas and Cherokee oil production. Significant data on the discovery wells of these new fields are given in Table 6.

New producing zones in old producing fields, named during 1956, include **Bloom** (Mississippian, oil), **Little Bear Creek** (Viola, gas), and **Salt Fork** (Marmaton, gas). These are summarized in Table 7.

During the year, 25 Mississipian gas wells were completed in the new Boggs Southwest field, 18 gas and 2 oil wells in the Hardtner, and 21 gas and 4 oil wells in the large Rhodes field. Dominating gas production (in Barber County) during the year were the Boggs Southwest field with 9,601,182 thousand cubic feet from 24 wells, the Hardtner with 17,525,934 thousand cubic feet from 38 wells, and Medicine Lodge-Boggs with 12,439,437 thousand cubic feet from 70 wells.

Although much of the **Rhodes** field was shut-in during the early months of 1956 because of no market, 132 Mississippian wells were reported as producing 945,745 barrels of oil, and 1 Viola well reported 1,340 barrels. This amounts to a decline of only 72,843 barrels from the previous year's high.

Dry wildcat drilling activity declined to 26 wells during the year, and of these, 17 reported shows of oil or gas. Additional data



on the dry wildcats drilled in the county during the year are given in Table 17. The locations of these dry wildcats and of producing fields are shown on Plate 2. Oil production is given in Table 65 and gas production in Table 66. Data on the repressuring project operating in Barber County are given in Table 1.

BARTON COUNTY (Map Pl. 2)

The 1956 production from 153 fields: oil 14,913,934 barrels, gas 626,609 thousand cubic feet. Wells drilled in 1956: oil 130, gas 3, dry 135, repressuring or salt-water disposal 5, total 273 including 19 dry wildcats. Reworked wells: oil 14, dry 4. Fields discovered 9, combined 1.

Developments during 1956.—Once again Barton County has maintained its position as the most prolific oil producer in Kansas, with the 1956 production exceeding that of the previous year by almost 4 percent. Gas production was about 37 percent less than in 1955. Drilling activity during 1956 resulted in a total of 273 new wells, 22 fewer than in the previous year.

Nine new oil fields were named in Barton County during 1956. These are the Bailey, Bissell Point South, Hoisington North, and Workman West fields which produce from the Arbuckle dolomite, and the Klug West, Reimer, St. Peter East, Workman North, and Workman Northwest fields which produce from the Lansing-Kansas City rocks. Data on the initial potential, thickness of the producing zone, and the location of the discovery well are given in Table 6.

New oil zones were discovered in 6 old producing fields (Table 7). The Arbuckle rocks were reported productive in the **Great Bend Northwest**, **Nuss**, and the **Workman North** fields. Lansing-Kansas City production was reported from the **Kimpler** field, and production from Pennsylvanian conglomerate rocks was reported from the **Red Brick** field.

During the year the **Buckbee South** field was declared to have the same reservoir as **Buckbee Southwest**, and the 2 were combined under the name **Buckbee Southwest**. Other action by the Nomenclature Committee resulted in the combining of the **Pritchard South**, **Pritchard Southeast**, and **Starr** fields with **Pritchard** in January.



TABLE 17.—Dry wildcat tests drilled in Barber County during 1956

		Depth to top of Mississip-	Depth to top of Viola,	Depth to top of Simpson	Depth to top of Arbuckle,	Total depth,
Company and farm	Location	pian, feet	feet	feet	feet	feet
Musgrove Petro. Corp. No. 1 Hartley	SE SE SW 35-30-13W	4,322	4,512	4,628	4,728	4,761
*Petroleum, Inc. No. 1 Rankin	SE SE SE 2-31-10W	4,476	3,820**	*******	••••••	4,549
K & E Drlg., Inc., et al. No. 1 Morisse	NE NW NE 9-31-10W	4,501	4,732	4,810	4,924	4,950
Aurora Gasoline Co. No. 1 Rankin	C SW SW 13-31-10W	4,464	4,736	4,800	4,936	4,965
Aylward Drlg. Co. No. 1 Updegraft	C SE SE 22-31-12W	4,308	4,602	4,688	4,791	4,825
Anschutz Drlg. Co., Inc. No. 1 Frieden	SE NE SW 29-31-12W	4,225	3,705**	••••••	••••••	4,290
*Jones, Shelburne & Farmer, Inc. et al. No. 1 Stone "B"	NE SW NW 35-31-14W	4,415	4,514	4,625	4,722	4,772
Jones, Shelburne & Farmer, Inc., et al. No. 1 Moad	NE NE NW 5-31-15W	4,583	4,645	4,810	4,898	4,933
*Mull Drlg. Co., Inc. No. 1 Smith	SE SE SE 16-32-10W	4,375	3,680**			4,445
Mull Drlg. Co., Inc. No. 1 Pelton	NW NE SW 27-32-10W	4,347	3,638**		•••••	4,459
E. H. Adair Oil Co. No. 1 Gillespie	SW SW SE 22-32-12W	4,256	4,604	4,706		4,751
Aylward Drlg. Co. No. 1 Brooks	SW SW NE 7-32-13W	4,468	4,740	4,856	4,965	5,012
Aurora Gasoline Co. No. 1 Baier "A"	SW SW SW 32-32-13W	4,506	4,813	4,929	•	4,983
Aurora Casoline Co. No. 1 Rinke	SE SE SE 25-32-14W	4,534	4,854	4,978		5,019
Aylward Drlg. Co. No. 1 Welch "A"	NE NE NE 7-32-15W	4,788	5,074	5,226	5,318	5,352
Davidor & Davidor No. 1 Duncan	NE NE NW 14-33-10W	4,423	4,750	4,837	4,984	5,008
Ambassador Oil Corp. No. 1 Page	N½ NE SW 36-33-10W	4,545	4,904	4,996	5,168	5,215
Jones, Shelburne & Farmer, Inc. No. 1 Warwick	C SW SW 33-33-12W	4,766	5,191	5,276		5,294
Pickrell Drlg. Co. No. 1 Hutchinson	SW SW SW 3-34-12W	4,670	3,971**			4,767
Jones, Shelburne & Farmer, Inc., et al. No. 1 Wright "B"	NE NE NE 15-34-12W	4,644	3,960**			4,702
Sinclair Oil & Gas Co. No. 1 Sam Good	SE SE NE 35-34-12W	4,766	5,175	5,266	5,476	5,501
E. II. Adair Oil Co. No. 1 Hull	SW SW SE 20-34-13W	4,789	4,161**	*******	••••••	4,854

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*Wm. Gruenerwald No. 1 Ballet	SW NE NW 27-34-15W	4,740	5,141	5,302	5,452	5,500
Graham-Messman-Rinehart Oil Co. No. 1 Ill. Wesleyan University	NW NW SW 8-35-11W	4,808	4,337**	•••••	•	4,842
Rupp-Ferguson Oil Co. No. 1 College	SW SW NW 12-35-12W	4,811		······		4,865
*Wm. Gruenerwald No. 1 Molz	NW NW NW 8-35-14W	4,826	5,254	5,431	5,605	5,658

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

Of the 19 dry wildcat tests drilled more than 1½ miles from current production, 2 reported shows of oil and 1 reported a small show of gas. Additional statistical data on these exploratory tests are given in Table 18, and their locations are shown on Plate 2.

Drilling programs resulted in the completion of 11 oil wells and 8 dry holes in the Beaver South field, 10 oil wells and 6 dry holes in the Chase-Silica field, and 12 oil wells and 4 dry holes in the Great Bend Townsite field.

The leading oil producing field in the county was the Kraft-Prusa field, which reported production of 3,665,740 barrels during the year. Gas production for 1956 was reported from the Heizer Southwest, Krier (within Kraft-Prusa), Pawnee Rock, and Unruh fields. Data on gas production are given in Table 66, and the locations of these producing areas are shown on Plate 2. Oil production from Barton County fields is given in Table 65, and the areas of production are shown on Plate 2.

BOURBON COUNTY (Map Pl. 1)

The 1956 production from 8 areas in 3 fields: oil 35,080 barrels. Wells drilled in 1956 (estimated): oil 11, dry 7, repressuring 14, total 32.

Developments during 1956.—Bourbon County's oil production in 1956 was 206 barrels more than the figure reported for 1955. It is estimated that 26,800 barrels of the oil reported produced are from secondary recovery projects in the county.

Oil production in Bourbon County is listed in Table 65. Locations of areas in which oil was produced are shown on Plate 1. Data on secondary recovery of oil in Bourbon County are given in Table 1.

^{**}Depth to top of the Lans.-K.C., feet.

TABLE 18.—Dry wildcat tests drilled in Barton County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C. feet	Depth to top of Arbuckle, feet	Total depth, feet
Strata Drlg., Inc. No. 1 Stoskopp	NW NW SE 13-16-13W	1,918	3,155	3,427	3,462
Shelley-Miller Drlg., Inc. No. 1 Riemann	NE NE NW 10-16-14W	1,912	3,148	3,353	3,403
*Isern Drlg. Co., et al. No. 1 Birzer	SW SE SW 22-17-12W	1,879	3,125	3,416	3,445
*Nadel & Gussman No. 1 Huslig	SW SW SE 25-17-12W	1,817	3,038	3,344	3,365
*D. R. Lauck Oil Co., Inc. No. 1 Persons	SE SE NW 13-17-13W	1,876	3,124	3,366	3,405
Iron Drlg. Co. No. 1 Hester	SW NW NW 2-17-15W	1,968	3,256	3,550	3,580
*Shelley-Miller Drlg., Inc. No. 1 Kinzel	NW NW NE 2-18-12W	1,885	3,161	3,417	3,447
Jayhawk Drlg. Co. No. 1 Cook	NW NW SE 15-18-13W	1,812	3,090	3,344	3,365
Shelley-Miller Drlg., Inc. No. 1 Jilg	NW NW NE 30-18-13W	1,904	3,174	3,419	3,439
Rocket Drlg. Co., Inc. No. 1 Wondra	SW SW SE 15-18-14W	1,923	3,185	3,442	3,464
Honaker-Davis Drlg. Co. No. 1 Kent	SE SE NE 31-19-13W	1,863	3,190	3,463	3,465
Strata Drlg., Inc. No. 1 Bobeck	NW NE SW 32-19-13W	1,859	3,202	3,479	3,525
*Honaker-Davis Drlg. Co. No. 1 Nicholson	NW SW SE 32-19-13W	1,857	3,195	3,465	3,490
*Alpine Oil & Rovalty Co., Inc. No. 1 Hagen "B"	SE SW SW 27-20-11W	1,785	3,095	3,343	3,352
*Alpine Oil & Royalty Co., Inc. No. 1 Hagen	NW NE NE 34-20-11W	1,780	3,062	3,391	3,400
*D. R. Lauck Oil Co., Inc., et al. No. 1 Dahm	SE SE NW 10-20-12W	1,858	3,215	3,492	3,519
Home-Stake Oil & Gas Co No. 1 Woodmansee	.NW SW SE 10-20-12W	1,824	3,144	3,504	3,540
Shelley-Miller Drlg., Inc. No. 1 Nicolet	SW SW NW 8-20-13W	1,877	3,222	3,496	3,542
Rupp-Ferguson Oil Co. No. 1 Bowman	SW SW NE 34-20-15W	1,944	3,382	3,704	3,725

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

BROWN COUNTY

(Map Pl. 1)

The 1956 production from 1 field: oil 1,434 barrels.

Developments during 1956.—Production of 1,434 barrels of oil was reported from 1 well in the Livengood field, which yielded

1,416 barrels in 1955. No wells were reported drilled in the county during the year.

The State Geological Survey has records of 22 wells drilled in the county. Most of these wells are listed in Jewett (1954).

The location of the Livengood field is shown on Plate 1. Additional data on the field are given in Table 65.

BUTLER COUNTY

(Map Pl. 1)

The 1956 production from 76 areas in 65 fields: oil 8,138,153 barrels including approximately 4,080,185 barrels from secondary recovery operations, gas 1,414 thousand cubic feet. Wells drilled in 1956 (recorded): oil 95, gas 1, dry 63, repressuring or salt-water disposal 40 (plus 70 estimated), total 269 including 24 dry wildcats. Reworked wells: oil 5, salt-water disposal 3, total 8. Fields discovered 2.

Developments during 1956.—Two new Mississippian oil fields were named in Butler County during 1956. The Pontiac Southwest field was discovered in August by the Twin Drilling Company No. 1 Jones well in sec. 23, T. 26 S., R. 6 E. The producing zone lies at a depth of 2,780 to 2,790 feet. The discovery well, an old well worked over, was rated as having a daily production of 8 barrels of oil. The Shinn Northeast field was opened in March by the Charles L. Carlock No. 1 Wehrman well in sec. 17, T. 29 S., R. 8 E. Production is from a zone at a depth of 2,680 to 2,715 feet. An initial potential of 25 barrels of oil per day was assigned the discovery well. Two extension oil wells and 3 dry holes were completed in the latter field during the year.

Oil production in Butler County declined more than 330,000 barrels from the 1955 production of 8,469,378 barrels; however, production from the El Dorado field increased to 4,358,743 barrels of oil compared to 4,231,941 reported in 1955. Coupled with a decline in production from the Trapp field of Russell and Barton Counties, this increase made the 41 year old El Dorado field the leading oil producing field in the state. Much of the credit for the reinstatement of the El Dorado field to the leading position belongs to the successful secondary recovery operations in the field.

Tops to marker beds encountered in drilling the 24 rank wildcats completed in Butler County during 1956 (8 more than 1955)



are given in Table 19. No significant shows of oil or gas were reported in the scout reports on these wells. The locations of the wildcat holes are shown on Plate 1.

The **El Dorado** field led the county in the number of field wells attempted with 49 extension oil wells and 3 dry holes. The **Fox-Bush** field added 16 oil wells and 1 dry hole during the year.

Production in the various Butler County oil fields is listed in Table 65, and gas production statistics are listed in Table 66. Locations of areas from which oil was produced in 1956 are shown on Plate 1. Data on water flooding operations are listed in Table 1. Data on the new fields are given in Table 6.

TABLE 19.—Dry wildcat tests drilled in Butler County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C. feet	Depth to top of Mississip- pian, feet	Total depth, feet
*Donald E. Dunne, Jr. No. 1 McNeill	NE NE SW 31-23-3E	1,401	2,090	2,734	3,115
Cities Service Oil Co. No. 1 Church	NW SW SE 13-23-5E	1,513	1,580	••••••	2,572
White & Ellis Drlg. Co. No. 1 Classen	SE SE NW 5-23-6E	1,462	1,890	2,791	3,371
*Walker Oil Corp. No. 1 Unruh	SW SW SW 27-23-7E	1,489	1,785	2,750	3,318
K & E Drlg., Inc. No. 1 Oliver	C NL Lot 3 19-23-8E	1,545	1,762	2,771	2,790
K & E Drlg., Inc. No. 2 Oliver	NE Cor. of Lo 19-23-8E	t 5	1,782	2,802	2,822
McNeish & Gralapp No. 1 Allen	C NE NW 23-24-3E	1,337	1,872	2,565	2,924
*Rex & Morris Drlg. Co. No. 1 Roth	NE SW NE 23-24-4E	1,425	2,110**	2,494	2,725
*Charles Lamar Carlock No. 1 Hinnen	NW NW SW 8-24-6E	1,430	1,759	2,624	2,665
*Cassaday Oil No. 1 Destring	C NE NE 25-24-7E	1,509	1,720	2,685	3,214
*Bennett & Gould No. 1 McGulloch	NE NE NW 34-25-4E	1,311	2,026**	2,503	2,612
*Dunn & Strait Drlg. Co. No. 1 Gray	SE SW SW 1-26-5E	1,279	1,770	2,725	2,745
*Time Petro. Co. No. 1 Wait	SE NW SE 36-26-6E	1,421	1,880	2,745	2,825
*Augusta Oil No. 1 Ralston	NE SE NW 34-27-3E		2,282**	2,786	3,111
*Augusta Oil No. 1 Smith	NE NE NW 4-28-5E	1,337	1,834	2,781	2,832
*Leben Drlg, Co. No. 1 Wilson	NW NW NW 7-28-5 E	1,294	1,871		1,976

*Dunn & Strait Drlg. Co. No. 2 Winger	SW SW SW 21-28-5E	1,283	1,915	2,770	2,825
*Augusta Oil No. 1 Squier	SE SE NE 18-28-8E	1,567	2,004	2,763	2,810
*Time Petro. Co. No. 1 Pearson	NW SE NE 32-29-3E	1,281	2,437**	2,953	3,420
Earl F. Wakefield No. 1 Grabill	SE SE SE 35-29-3E	1,205	2,529**	3,250	3,640
*Prairie Oil & Gas No. 1 Blood	SW SE SW 23-29-4E	1,279	2,294**	2,893	2,927
*A. C. Lawson No. 1 Rash	SE SE SE 33-29-7E	1,514	2,148**	2,892	2,940
*Charles Lamer Carlock No. 1 Bonnell	NW NW SW 6-29-8E	1,526	1,716	2,852	2,882
Charles Lamer Carlock No. 1 Wehrman "B"	NW Cor. Lot 17 31-29-8E	1,439	1,970**	2,739	2,772

^{*} No electric or radioactivity logs available. Kansas Sample Log Service, Independet Oil & Gas Service, and other available data sources have been used.

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

CHASE COUNTY (Map Pl. 1)

The 1956 production from 2 fields: oil 32,244 barrels including production from secondary recovery projects, gas 50,858 thousand cubic feet. Wells drilled in 1956 (estimated): oil 8, dry 9, total 17 including 8 dry wildcats.

Developments during 1956.—Oil production in Chase County in 1956 was slightly below that of 1955, when 32,741 barrels was reported.

Eight dry exploratory wells were drilled in the western half of the county during the year. Stanolind Oil and Gas Company tested several zones in their No. 1 Browning well in sec. 3, T. 19 S., R. 6 E., but no specific references to shows of oil or gas were noted on the scout reports. Surface elevations and depths to important marker beds in the wildcat wells are given in Table 20.

Stanolind Oil and Gas Company's No. 1 Lowe well in the NE¼ NE¼ SW¼ sec. 13, T. 18 S., R. 6 E., located in the old Hymer gas field was taken down past the shallow gas zone into the Arbuckle dolomite before abandonment as a dry hole. The well was drilled from an elevation of 1,393 feet above sea level. Tops noted are: Lansing-Kansas City, 1,392; base of Kansas City, 1,736; and Arbuckle, 1,944 feet. No shows of oil or gas were reported.

During the year the Atyeo field (Chase and Greenwood Counties) and the Pixlee field (Greenwood County) were renamed



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TABLE 20.—Dry wildcat tests drilled in Chase County during 1956

Location	Surface elevation, feet	Depth to top of LansK.C. feet	Depth to top of Arbuckle, feet	Total depth, feet
NW NW SE 10-18-6E	1,399	1,449	2,085	2,145
SE SE NW 21-18-7E	1,396	1,460	2,146	2,190
NE NE SW 3-19-6E	1,398	1,444	2,032	2,068
NE NE SW 13-19-6E	1,245	1,246	1,802	1,862
SW SW NW 24-20-5E	1,377	1,631	2,206**	2,498
SW SW SW 9-21-6E	1,349	1,961	3,140**	3,153
NW NW SW 15-22-6E	1,392	1,831	3,138	3,193
NE NE NW 17-22-7E	1,491	1,855	2,804**	2,895
	NW NW SE 10-18-6E SE SE NW 21-18-7E NE NE SW 3-19-6E NE NE SW 13-19-6E SW SW NW 24-20-5E SW SW SW 9-21-6E NW NW SW 15-22-6E NE NE NW	Location elevation, feet	Location Surface elevation, feet Lop of LansK.C., feet NW NW SE 10-18-6E 1,399 1,449 SE SE NW 21-18-7E 1,396 1,460 NE NE SW 3-19-6E 1,398 1,444 NE NE SW 1,245 1,246 13-19-6E SW SW NW 1,377 1,631 24-20-5E SW SW SW 99-21-6E 1,349 1,961 NW NW SW 15-22-6E 1,392 1,831 NE NE NW 1,491 1,855	Location Surface elevation, feet top of feet top of feet NW NW SE 10-18-6E 1,399 1,449 2,085 SE SE NW 21-18-7E 1,396 1,460 2,146 NE NE SW 3-19-6E 1,398 1,444 2,032 NE NE SW 1,245 1,246 1,802 13-19-6E SW SW NW 1,377 1,631 2,206** 24-20-5E SW SW SW 91 1,349 1,961 3,140** 9-21-6E NW NW SW 1,392 1,831 3,138 15-22-6E NE NE NW 1,491 1,855 2,804**

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

the **Atyeo-Pixlee** field by action of the Kansas Nomenclature Committee.

Oil production statistics for 1956 in Chase County are listed in Table 65, gas in Table 66. Locations of areas that produced oil in 1956 and of the dry wildcat tests are shown on Plate 1. Secondary recovery data are given in Table 1.

CHAUTAUQUA COUNTY (Map Pl. 1)

The 1956 production from 46 areas in 23 fields: oil 1,035, 370 barrels including an estimated 561,235 barrels from secondary recovery operation, gas 198,534 thousand cubic feet. Wells drilled in 1956 (estimated): oil 160, gas 7, dry 77, repressuring 24, total 268 including 8 dry wildcats. Fields discovered 2.

Developments during 1956.—Oil production from Chautauqua County amounted to 1,035,370 barrels in 1956, a considerable increase over the 947,428 barrels reported the previous year.

Two new fields in Chautauqua County were named in 1956. The Continental Oil Company, No. 1 Rich well in sec. 16, T. 33 S., R. 9 E., is the discovery well in the Rich field. Oil was found in the Mississippian strata at a depth of 2,285 to 2,315 feet. The well was completed in April with an initial potential of 20 barrels



^{**} Depth to the top of the Mississippian, feet.

of oil per day. An offset well by the same company in the same location was dry. The **Hewins Northwest** gas field was opened with the completion of the No. 1 Harvey well in sec. 27, T. 34 S., R. 9 E., in July. An initial potential of 196,000 thousand cubic feet per day was assigned the Mississippian rocks at a depth of 2,072 to 2,078 feet. The discovery wells of both fields were taken into Arbuckle rocks before being plugged back to the pay zone.

Eight rank wildcat tests, 6 of which were drilled into the Arbuckle rocks, were completed in Chautauqua County during the year. Data on the important marker beds encountered in drilling these exploratory holes are given in Table 21.

A minimum of 25 new oil wells and 6 dry holes were completed in the **Leniton** field development program during 1956. There were more than 28 oil wells, 3 gas wells, and 21 dry holes drilled in the **Peru-Sedan** field during the year.

A list of rank wildcat tests drilled in the county during 1956 does not give the true exploration picture. A very large number of the field wells were drilled into the deeper Arbuckle rocks before being plugged back to established pay zones. Data on oil production in Chautauqua County in 1956 are listed in Table 65.

TABLE 21.—Dry wildcat tests drilled in Chautauqua County during 1956

Location	Surface elevation, feet	Depth to top of Mississip- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
NW NW SW 24-32-8E	1,047	2,306	2,670	2,680
SW SE NW 28-32-9E	1,092	2,214	2,570	2,672
NW NW NW 15-32-10 E	1,066	1,996	2,330	2,378
NW NW NW 26-32-11 E	926	1,741	1,060**	1,763
NW NW NW 25-32-9E	1,096	2,195	2,508	2,557
NW NW NE 27-32-11E	969	1,809	2,102	2,150
NW SE SE 6-33-11E	1,227	1,981	2,336	2,390
W½ E½ NE 3-34-8E	1,008	2,454	•	2,484
	NW NW SW 24-32-8E SW SE NW 28-32-9E NW NW NW 15-32-10E NW NW NW 26-32-11E NW NW NW 25-32-9E NW NW NE 27-32-11E NW SE SE 6-33-11E W½ E½ NE	Location elevation, feet	Location Surface Lóp of Elevation, Mississispian, feet	Location Surface top of please Location Surface Location Location Mississip plan, feet Provided

^{*} 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 Kansas City, feet.

Gas production is given in Table 66. Locations of areas that produced oil in 1956 and of dry wildcat wells drilled in 1956 are shown on Plate 1. Information on the secondary recovery operations in the county is given in Table 1.

CHEROKEE COUNTY (Map Pl. 1)

Wildcat wells have been drilled from time to time in Cherokee County, but as yet no commercial quantities of oil have been found. A few wells in this county have supplied small quantities of gas for a number of years. During 1956 reported gas production was 2.521 thousand cubic feet from 1 well.

CLARK COUNTY (Map Pl. 3)

The 1956 production from 8 fields: oil 471,732 barrels, gas 757,-169 thousand cubic feet. Wells drilled in 1956: oil 3, gas 4, dry 14, repressuring or salt-water disposal 1, total 22 including 6 dry wild-cats. Fields discovered 1.

Developments during 1956.—Oil production in Clark County increased by more than 14 percent over the previous year in spite of a decrease in the county's drilling activity. Gas production also showed an increase, owing to the development of the Cavalry Creek field. The field was named in November 1955 as a Mississippian gas producer, but no production was reported that year.

The Snake Creek East field was the only new field named in the county in 1956. The Pure Oil Company completed the discovery well on the Harper lease in sec. 24, T. 34 S., R. 21 W., in December. An initial potential of 360 barrels of oil per day was assigned to the Morrowan rocks at a depth of 5,480 to 5,496 feet (Table 6).

Once again Harper Ranch was the county's leading oil producer as production increased to 456,442 barrels of oil from 33 wells. Drilling programs within the field resulted in 1 new oil well and 5 dry holes.

Six dry wildcats were drilled during the year, 1 of which, the No. 1 Randall in sec. 6, T. 33 S., R. 21 W., reported a show of oil and gas. Further data on the county's dry wildcats are given in Table 22. The locations of these dry wildcats and of producing



Depth to Depth to Surface top of top of elevation, Lans.-K.C., Mississip-feet feet pian, feet Total depth, Company and farm Location pian, feet fêet Wilcox Oil Co. C SE SW 2,289 4.508 5.203 5,273 28-30-21W No. 1 Harter Big X Drilling Co. SW SW NE 2,390 4,499 5.271 6.611 No. 1 Taylor 21-30-23W Shamrock Oil & Gas Corp. C SE 4,357 5,211 5,331 1,842 No. 1 Harry Large et al. 1-33-21W CSW 1,955 4,440 5,280 5,500 Stearns Petro., Inc., et al. 6-33-21W No. 1 Randall E. H. Adair Oil Co., et al. CNW 1,950 4,424 5,398 5,559 No. 1 Berryman 18-33-22W *Skelly Oil Co. SW SW NE 1,870 4,444 5,508 6,010 No. 1 Hoffman 27-34-23W

TABLE 22.—Dry wildcat tests drilled in Clark County during 1956

fields are shown on Plate 3. Oil production data are given in Table 65 and gas production data in Table 66.

CLAY COUNTY (Map Pl. 1)

Wildcat wells have been drilled from time to time in Clay County, and 2 fields were named in 1951. No production has ever been reported from the inactive fields.

Exploration during 1956.—The State Geological Survey now has record of 29 wells drilled in Clay County. Early in 1956, E. F. Wakefield completed two exploratory tests south of Clay Center. The test on the Woellhoff farm in the NW¼ NW¼ NW¼ sec. 29, T. 8 S., R. 3 E., was drilled from an elevation of 1,225 feet above sea level, with the top of the Mississippian strata at 2,126 feet. Total depth was reported as 2,150 feet. The other test in the county was on the E. H. Swenson farm in the SW¼ SW¼ NW¼ sec. 15, T. 9 S., R. 2 E. The top of the Mississippian rocks was encountered at 1,990 feet; the well was drilled from an elevation of 1,342 feet above sea level. No additional information was released.

The locations of the dry wildcat tests are shown on Plate 1.

CLOUD COUNTY (Map Pl. 2)

Wildcat tests have been drilled in Cloud County several times in the past, but as yet no oil or gas pools have been discovered.



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

Exploration during 1956.—Drilling activity in Cloud County, the first since 1952, has resulted in 4 dry wildcats which penetrate the Arbuckle dolomite. No shows of oil or gas were reported, although many porous zones were encountered. Additional data on these dry wildcat wells are given in Table 23, and the locations are shown on Plate 2.

TABLE 23.—Dry wildcat tests drilled in Cloud County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Shawver-Armour, Inc. No. 1 Blosser	SW SW NW 8-6-3W	1,433	2,220	2,798	3,654	3,706
Shawver-Armour, Inc. No. 1 Odette	SE SE SE 5-6-4W	1,494	2,342	2,959	3,780	3,826
Shawver-Armour, Inc. No. 1 Daniels	NE NE NE 32-6-5W	1,590	2,490	3,154	3,996	4,046
Shawver-Armour, Inc. No. 1 Hall	NW NW SW 18-7-3W	1,577	2,400	2,020	3,858	3,898

COFFEY COUNTY

(Map Pl. 1)

The 1956 production from 13 areas in 13 fields: oil 161,837 barrels, gas 7,152 thousand cubic feet. Wells drilled in 1956 (estimated): oil 15, dry 13, total 28 including 3 recorded dry wildcats. Fields discovered 1, combined 5.

Developments during 1956.—Oil production in Coffey County was considerably less in 1956 than in 1955, when 189,599 barrels was reported. Although active since 1953, the **Crandall** field was officially recognized in 1956 by action of the Kansas Nomenclature Committee. Crooks and Waddell completed the discovery well of the **Crandall** field on the Vielguth farm in sec. 6, T. 23 S., R. 16 E., in June 1953. Initial production was recorded as 650,000 cubic feet of gas per day from Mississippian strata topped at 1,027 feet. Data on the discovery are given in Table 6.

The "Peru" sandstone was named a new producing zone in an old field (Finnerty) in 1956. Accredited as the discovery well was the F. E. Lockhart No. 3 Davis in sec. 12, T. 21 S., R. 13 E. An initial potential of 7 barrels of oil per day was assigned the pay zone found at 1,382 to 1,392 feet. Additional information on the development is given in Table 7.

All three wildcat tests drilled by the Rex and Morris Drilling Company in the county during the year were drilled into Mississippian rocks. The No. 1 Bingham was drilled in the NW $\frac{1}{4}$ SE $\frac{1}{4}$ SE¼ sec. 2, T. 20 S., R. 13 E., in February. No elevation was recorded; however, tops given in the scout information include "Bartlesville" 1,536 feet and Mississippian 1,710 feet. Total depth reported was 1,747 feet. No shows were observed. The No. 1 Ewing well in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 11, T. 20 S., R. 13 E., was also drilled in February. The top of the "Bartlesville" was reported at 1,524 feet and the top of the Mississippian rocks at 1,672 feet. Total depth was 1,690 feet. The No. 2 Ewing well was completed early in March in the NW¼ SW¼ NW¼ of the same section. The top of the Kansas City was found at 495 feet, the base of the Kansas City at 1,025, "Cattleman" sand at 1,460 feet, the "Bartlesville" sand at 1,525 feet, and Mississippian rocks at 1,675 feet. Total depth was reported at 1,685 feet. No testing was reported from the Ewing wells.

During the year the Neosho Falls and Leroy fields were renamed the Neosho Falls-Leroy field. The Hoagland, Van Noy, and Wiede fields were combined with the Winterscheid field.

Locations of areas in Coffey County that produced oil in 1956 and of the dry wildcat wells that were reported are shown on Plate 1. Oil production statistics are given in Table 65, gas in Table 66.

COMANCHE COUNTY (Map Pl. 2)

The 1956 production from 3 fields: oil 5,619 barrels, gas 183,113 thousand cubic feet. Wells drilled in 1956: gas 1, dry 7, total 8 including 6 dry wildcats. Fields discovered 1, abandoned 1.

Developments during 1956.—Since oil and gas were first discovered in Comanche County in 1953, production has steadily increased, reaching a new high in 1956. Oil production from 3 wells more than doubled the previous year's figure, and gas production increased by more than 29 percent.

Developmental drilling by the Pure Oil Company in April in the Beals gas field resulted in the completion of the No. 1 R. D. Parks well. The well was drilled to a total depth of 5,816 feet and was assigned an initial potential of 35 200,000 cubic feet of gas per



day from both Simpson and Lansing-Kansas City rocks. This was the first time that Simpson production was reported in the county.

Exploratory drilling in the county resulted in 6 dry wildcats, of which 5 reported shows of gas and 1 reported shows of oil and gas. Additional data on the dry wildcats are given in Table 24. The locations of these dry wildcats and of the areas of oil and gas production are shown on Plate 2. Oil production figures are given in Table 65 and gas production figures in Table 66.

TABLE 24.—Dry Wildcat tests drilled in Comanche County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Depth to top of Arbuckle, feet	Tot dep fee
Gramehart-Miller Oil Co. No. 1 Kennedy "A"	Cen. NE NE 2-31-17W	2,110	4,363	4,969		5,
Natl. Coop. Ref. Assn., et al. No. 1 Boisseau	NW NW NW 22-31-18W	2,201	4,503	5,136	••••••	5,
Rupp-Ferguson Oil Co. No. 1 Schuette	SW SW NE 9-32-16W	1,926	4,244	4,828	5,393	5,
Parker Petro. Co., Inc. No. 1 Cary	C SE SW 30-32-17W	2,002	4,450	5,135	5,866*	5,
J. M. Huber Corp. No. 1 Einsel	SW NW !\W 11-33-17W	1,960	4,404	5,097	5,896	5,9
Union Oil Co. of Calif. No. 1 Alexander	Cen. NE NW 3-35-20W	1,720	4,407	5,278	••••••	5,

^{*} Depth to top of the Simpson, feet.

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COWLEY COUNTY (Map Pl. 1)

The 1956 production from 101 areas in 98 fields: oil 4,595,418 barrels, including approximately 917,799 barrels from secondary recovery projects, gas 493,136 thousand cubic feet. Wells drilled in 1956: oil 202, gas 5, oil and gas 1, dry 145, input or salt-water disposal 14, total 367 including 31 dry wildcats. Reworked wells: oil 8, gas 2, dry 4. Fields discovered 11, revived 1, combined 4.

Developments during 1956.—Oil production in Cowley County was somewhat less in 1956 than in 1955, when 4,712,727 barrels was reported. Drilling activity increased from 331 wells drilled during 1955 to 367 during 1956, placing Cowley County at the top of the list in number of wells drilled in any one county in Kansas during 1956.

Ten oil fields and 1 oil and gas field were named in Cowley County in 1956. One field, the Werner, was revived during the year. New producing zones were found in 4 previously established fields. The new oil discoveries are the Albright, Albright North, Biddle Northwest, Cambridge, Falls City Northwest, Hackney, Kanok, Posey, Rippe, and Walnut Bend North. All but the Biddle Northwest ("Bartlesville"), the Cambridge ("Layton"), and the Rippe ("Bartlesville") produce from Mississippian strata. The new oil and gas field, the Rauckman, produces from the "Bartlesville". The revived Werner field, which was discovered in 1928 with gas production from Douglas rocks, now produces oil from the "Layton" sandstone. Data on the locations of the discovery wells, thicknesses of the producing zones, and initial potentials of the discovery wells are given in Table 6.

Oil was found in Mississippian rocks in 3 of the 4 fields that were reported as having new zones in established fields, the Frog Hollow East, Rainbow Bend Northeast, and the newly revived Werner. Gas from the "Cattleman" sand was reported from the Wilmot-Floral field for the first time. Significant data on the discovery wells of these new zones are given in Table 7.

The Kansas Nomenclature Committee determined that the Burden East and Wiebe had a common reservoir with the Burden field and therefore declared them combined. The Silver Creek field was combined with the Frog Hollow East, and Rainbow Bend West was combined with Rainbow Bend.

There were 31 dry wildcat holes drilled in Cowley County during the year, and 3 of these reported shows of oil or gas. Data on the elevations and the top of the Kansas City and Mississippian rocks are given in Table 25. Eleven of the holes were taken into Arbuckle rocks before abandonment.

Field development programs resulted in the completion of 12 additional oil wells and 2 dry holes to the new Albright field, 14 extension oil wells and 4 dry holes to the Biddle Northwest field, 19 oil wells and 11 dry holes to the David field, and 31 oil wells, 5 dry holes, and 4 gas wells in the Estes field.

Locations of areas from which oil production was reported during 1956 and locations of the dry wildcat tests are given on Plate 1. Oil production in the various Cowley County fields is listed in Table 65, gas in Table 66. Secondary recovery data are listed in Table 1.

TABLE 25.—Dry wildcat tests drilled in Cowley County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of K. C., feet	Depth to top of Mississip- pian, feet	Total depth, feet
*Wrico Drlg. Co., et al. No. 1 Donley	SE SE NW 17-30-5E	1,312	2,256	2,929	2,966
*Lucian Walker No. 1 Snell	NE SE NW 28-30-5E	1,313	2,256	2,927	2,936
McNeish, Gralapp & Wakefield No. 1 Powell	NE NE NW 31-30-5E	1,294	2,270	2,930	2,957
E. F. Wakefield No. 1 Deichman	SW SW NW 34-30-5E	1,290	2,269	2,945	3,430
*R. H. Suhr, et al. No. 1 W. P. Smith	NE NW NW 23-30 - 6E	1,426	2,160	2,865	2,902
Kriswell Drlg. Co., et al. No. 1 Rash	NW NW SE 5-30-7E	1,443	2,148	2,881	2,940
*Shawver-Armour, Inc., & Clifton L. McCown No.£ Hensley	SW SW NE 23-30-7E	1,357	2,020	2,789	2,840
Renfro Drlg. Co. No. 1 H. H. Smith	SW SW SW 32-30-7E	1,458	2,188	2,964	3,064
Leben Drlg. Co. No. 1 Smith	SE SE SE 33-30-7E	1,351	2,042	2,791	2,891
Laura Jane Oil Co., Inc. No. 1 Johnson	SW SW SE 23-31-3E	1,202	2,452	3,008	3,41
Prairie Oil & Gas Co., Inc. No. 1 Smith	App. NE NE NI 26-31-3E	E 1,198	2,460	2,973**	3,000
Time Petro. Co. No. 1 Schwintz	SW NW SE 36-31-3E	1,136	2,493	3,012	3,388
W. L. Hartman No. 1 Crowley	SE SE NW 3-31-6E	1,395	2,193	2,913	3,365
*Renfro Drlg. Co. No. 1 Stout W. L. Hartman	SE SE NE 4-31-6E Cen.	1,318	2,110	2,837	2,930
No. 1 Day	W½ SW NE 9-31-6E	1,395	2,180	2,888	3,370
Petroleum, Inc. No. 1 Pierce	NE NE SE 3-32-3E	1,191	2,574	3,084	3,44
McNeish & Gralapp No. 1 Nixon	NW NW NW 8-32-3E	1,159	2,630	3,140	3,150
*J. Razook No. 1 O'Neil	SE SE SE 16-32-3E	1,176	2,617	3,129	3,159
E. F. Wakefield, et al. No. 1 Phillips	NW NW SE 34-32-3E	1,171	2,760	3,200	3,577
McNeish & Gralapp No. 1 Bolack	SE SE NE 15-32-6E	1,363	2,413	3,037	3,067
P. B. Wittman No. 2 Bolack	SW SE NE 21-32-6E	1,345	2,442	3,055	3,074
The Texas Co. No. 1 C. A. Walton	NW NW NW 31-33-4E	1,172	2,737	3,268	3,760
E. F. Wakefield No. 1 Hill	NW NW NW 15-33-5E	1,268	2,519	3,140	3,180

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SE SE NE 19-33-5E	1,228	2,650	3,185	3,640
SW NW SE 17-33-6E	1,295	2,492	3,081	3,158
SE SE SE 33-33-7E	1,321	2,341	2,922	3,012
SE SE SW 32-33-8E	1,018	••••••	2,512	2,945
NE SE NW 35-34-6E	1,354	2,430	3,016	3,032
SW SW NW 36-34-6E	1,327	2,485	2,980	3,005
SE SE NE 2-35-5E	1,246	•••••	3,217	3,230
NE NW NE 8-35 - 6E	1,282	2,602	3,150	3,604
	19-33-5E SW NW SE 17-33-6E SE SE SE 33-33-7E SE SE SW 32-33-8E NE SE NW 35-34-6E SW SW NW 36-34-6E SE SE NE 2-35-5E NE NW NE	19-33-5E SW NW SE 1,295 17-33-6E SE SE SE 33-33-7E SE SE SW 1,018 32-33-8E NE SE NW 35-34-6E SW SW NW 1,327 36-34-6E SE SE NE 2-35-5E NE NW NE 1,282	19-33-5E SW NW SE 1,295 2,492 17-33-6E SE SE SE 1,321 2,341 33-33-7E SE SE SW 1,018 32-33-8E NE SE NW 1,354 2,430 35-34-6E SW SW NW 1,327 2,485 36-34-6E SE SE NE 1,246 2-35-5E NE NW NE 1,282 2,602	19-33-5E SW NW SE 1,295 2,492 3,081 17-33-6E SE SE SE 1,321 2,341 2,922 33-33-7E SE SE SW 1,018 2,512 32-33-8E NE SE NW 1,354 2,430 3,016 35-34-6E SW SW NW 1,327 2,485 2,980 36-34-6E SE SE NE 1,246 3,217 2-35-5E NE NW NE 1,282 2,602 3,150

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

** Depth to top of "Bartlesville", feet.

CRAWFORD COUNTY

(Map Pl. 1)

The 1956 production from 9 areas in 6 fields: oil 49,324 barrels including an estimated 40,261 barrels from secondary recovery projects, gas 40.647 thousand cubic feet. Wells drilled in 1956 (estimated): oil 20, dry 17, repressuring 13, total 50 including 4 dry wildcats. Fields combined 2.

Developments during 1956.—Crawford County's oil production in 1956 was considerably less than in 1955, when 53,638 barrels was reported. It was estimated that 50 wells were drilled in the county during the year.

By action of the Kansas Nomenclature Committee the Fair Oak and Brazilton fields were combined with the Walnut Southeast. Production is from the "Bartlesville" at a depth of about 400 feet.

The Ark City Oil Company drilled dry wildcat tests in T. 28 S., R. 23 E., during 1956. The No. 1 Beaver well in the SW1/4 NE1/4 sec. 22 was taken to a total depth of 602 feet. The Mississippian rocks were reported topped at 566 feet, but no shows of oil were recorded. The No. 1 Torenden well in the SE¼ NW¼ sec. 22 drilled from an elevation of 995 feet above sea level topped the Mississippian at 552 feet. According to the electric log of the well, the top of the Chattanooga shale was found at 872 feet and the top of the Arbuckle dolomite at 911 feet. The test was taken to a total depth of 1,401 feet before abandonment. The third well was drilled on the Peterson farm in the E½ NE¼ sec. 27 to a total depth of 578 feet. The top of the Mississippian was logged at 538 feet.

A fourth dry wildcat test in the county during 1956 was drilled by the Kidd Williams Drilling Company on the Val Beaver lease in the SW¼ SW¼ SE¼ sec. 13, T. 28 S., R. 23 E. The hole was drilled in April from an elevation of 997 feet above sea level and was taken to a total depth of 588 feet. The top of the Mississippian on the electric log is indicated at 550 feet. No shows of oil or gas were reported.

Oil production in Crawford County fields is listed in Table 65 and gas in Table 66. Locations of areas that produced oil in 1956 are shown on Plate 1. Secondary recovery data are given in Table 1.

DECATUR COUNTY

(Map Pl. 3)

The 1956 production from 10 fields: oil 394,389 barrels. Wells drilled in 1956: oil 12, dry 18, total 30 including 6 dry wildcats. Fields discovered 3, combined 1.

Developments during 1956.—Oil production in Decatur County increased more than 600 percent primarily owing to a successful exploration program which resulted in the discovery of 3 new pools. The Cities Service Cil Company's No. 1 Warner "E" well in sec. 11, T. 1 S., R. 27 W., was the discovery well of the Warner field, and the Sauvage and Dunn Drilling Company's No. 1 Kilzer well in sec. 2, T. 1 S., R. 27 W., was the discovery well of the Warner North field. These fields were later combined as the Warner field, which contains 9 of the 12 new oil wells drilled during the year. A third new field, the Van Vleet, was named upon the completion of the Cities Service Company's No. 1 Van Vleet well in sec. 9, T. 1 S., R. 27 W. More information on the discovery wells of these fields is given in Table 6.

In September, the Pennsylvanian sand was designated as a new producing zone in the Warner North field, prior to its combination with the Warner field. Complete data on the discovery well of this new zone are given in Table 7.



Dry wildcat drilling activity declined from the previous year to 6 wells during 1956. No shows of oil or gas were reported from any of these tests, although 4 of the wells penetrated Precambrian rocks. Additional data on wildcat wells drilled in the county during the year are given in Table 26. The locations of these wells and of the producing areas of oil fields are shown on Plate 3. Oil production statistics for the county are given in Table 65.

TABLE 26.—Dry wildcat tests drilled in Decatur County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle,P feet	Depth to top of recambriar feet	Total ,depth, feet
Sauvage & Dunn Drlg. Co., Inc. No. 1 Wooley	NW NW SW 25-1-27W	2,546	3,282		3,704	3,707
Ayesh Oil Co. No. 1 R. J. Stapp	NW NW SW 16-2-26W	2,586	3,463	, 	3,832	3,835
Jones, Shelburne & Farmer, Inc. No. 1 Holben	NW NW NW 30-2-26W	2,669	3,566	3,951	4,032	4,040
*Sauvage & Dunn Drlg. Co., Inc. No. 1 Dowdall	SE SE NE 27-2-29W	2,694	3,719	4,171	•	4,225
*Imperial Oil of Kansas, Inc. No. 1 Krizek	SE SE SE 28-3-27W	2,628	3,544	4,004	•	4,081
*Sauvage & Dunn Drlg. Co., Inc. No. 1 Noone	NE NE NW 31-5-26W	2,574	3,675	3,880**		4,107

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

DICKINSON COUNTY

(Map Pl. 1)

The 1956 production from 7 areas in 7 fields: oil 127,645 barrels. Wells drilled in 1956: oil 6, dry 17, total 23 including 9 dry wildcats. Fields discovered 1.

Developments during 1956.—Oil production from 7 fields in Dickinson County during 1956 showed a marked decrease over that of 1955, when 142,720 barrels was reported.

The **Bonaccord Northeast**, a "Burgess" sandstone field, was found in November by Willis Waterman and others in their No. 1 Emig "A" well in sec. 29, T. 14 S., R. 1 E. An initial potential of 35 barrels of oil per day was given the discovery well at a depth of 2,502 to 2,505 feet. This important development is listed in Table 6.

Nine rank wildcat tests were drilled in Dickinson County during 1956. No shows of oil or gas were reported. Two of the holes

^{**} Depth to the top the Base of the Kansas City.

were taken to the Arbuckle dolomite and 1 to the Viola limestone before abandonment. Surface elevations and tops to significant marker beds are given in Table 27 on these exploratory holes.

Oil production in the Dickinson County fields is listed in Table 65. Locations of the areas that produced oil in 1956 and of the dry wildcat wells drilled in the county are shown on Plate 1.

DOUGLAS COUNTY (Map Pl. 1)

The 1956 production from 4 areas in 2 fields: oil 10,202 barrels including production from secondary recovery projects. Wells drilled in 1956 (estimated): oil 3, dry 2, total 5 including 2 dry wildcats.

Developments during 1956.—In 1956 oil production in Douglas County was slightly less than in 1955, when 10,853 barrels was reported.

One deep and 1 shallow dry wildcat tests were drilled in Douglas County during 1956. The Schermerhorn Oil Corporation drilled the first test on the Johanning lease in the SW¼ NW¼

TABLE 27.—Dry wildcat tests drilled in Dickinson County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C. feet	Depth to top of Mississip- pian, feet	Total depth, feet
*Crisswell Drlg. Co. No. 1 Kuntz	SW SW SW 13-12-2E	1,309	3,104**	2,310	3,159
*Donald T. Ingling No. 1 Crawford	SE SW NE 21-12-3E	1,267	1,718	2,308	3,151
*Donald T. Ingling No. 1 Bolliger	SE SW SE 24-14-1E	1,232	1,823	2,445	2,470
*Donald T. Ingling No. 1 Mark	SE SE NE 35-14-1E	1,219	1,799	2,433	2,467
*Donald T. Ingling No. 1 Rock	SE SE SE 19-14-3E	1,318	·	2,336	2,360
*Donald T. Ingling No. 1 Wolfe	NE NE NE 28-14-3E	1,322	······································	2,319	2,369
*F. W. Vishnefske, et al. No. 2 E. Robson	NE SE NW 11-15-1E	1,214	1,802	2,428	2,444
*F. W. Vishnefske No. 1 Foelber	W½ NW SW 36-15-1E	1,273	1,915	2,565	2,590
*Augusta Oil Co. No. 1 Hoffman	SW NE NE 25-16-4E	1,407	1,685	2,254	2,723

^{*} 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.

NE¼ sec. 17, T. 15 S., R. 19 E., in March. From an elevation of 1,059 feet above sea level the following tops were found: Lansing-Kansas City, 270; base of Kansas City, 470; Marmaton, 810; Cherokee, 910; Mississippian, 1,402; Chattanooga, 1,642; Viola, 1,678; Simpson, 1,822; and Arbuckle, 1,878 feet. Total reported depth was 1,902 feet. No shows of oil or gas were carried by the scouting data on the well. The No. 2 Johanning by Schermerhorn was located in the E½ NW¼ NE¼ of the same location as the No. 1 Johanning well. From an elevation of 1,067 feet, the following marker beds were encountered: Lansing-Kansas City, 272; base of Kansas City, 667; Marmaton, 822; Cherokee, 914; and "Bartlesville", 1,108 feet. The total depth was 1,299 feet. No shows were reported.

Locations of areas in Douglas County from which oil was produced during 1956 and locations of the dry wildcat tests are shown on Plate 1. Oil production statistics are listed in Table 65.

EDWARDS COUNTY (Map Pl. 2)

The 1956 production from 14 fields: oil 86,225 barrels, gas 727,058 thousand cubic feet. Wells drilled in 1953: oil 5, gas 5, oil and gas 1, dry 24, total 35 including 15 dry wildcats. Reworked wells: gas 1. Fields discovered 5.

Developments during 1956. —Oil production from Edwards County decreased by more than 2 percent, but gas production increased by more than 85 percent as drilling activity in the county almost doubled the previous year's program.

Explorational drilling resulted in the discovery of 4 new oil pools and 1 gas pool. The Anschutz Drilling Company, Inc., No. 1 Fatzer well in sec. 15, T. 26 S., R. 17 W., was the discovery well for the Fatzer field (Viola production), and Kirk Johnson brought in the discovery well of the Sa'ser field (Mississippian production) in sec. 12, T. 26 S., R. 16 W. The Aurora Gasoline Co. and L. C. Smitherman Drilling Company No. 1 Schultz well in sec. 21, T. 26 S., R. 16 W., was the discovery well for the Trousdale field (Cherokee production), and the D. R. Lauck Oil Company and Sunray Mid-Continent Oil Company well, drilled on the Cross lease in sec. 28, T. 24 S., R. 17 W., was the discovery well of the Wayne field (Mississippian production). The Trousdale



South gas field (Cherokee production) was named when the No. 1 King well in sec. 33, T. 26 S., R. 16 W., was brought in by the Sunray Mid-Continent Oil Company in December. More information on these discovery wells is given in Table 6.

Developmental drilling programs resulted in the establishment of "Kinderhook" production as a new zone in the **Embry** field when the Branine-Holl No. 1 Zuercher well was completed in sec. 22, T. 24 S., R. 16 W. Further data on this well are given in Table 7.

Although no wells were drilled in the **Enlow** field in 1956, it continued to be the county's major oil producer. A total of 51,913 barrels was reported during the year from 8 wells, which is more than half the production reported for the entire county. Data on Natural Gas and Oil Company's repressuring project in the **Enlow** field are given in Table 1.

Of the 15 dry wildcat tests drilled in the county, 2 reported shows of oil and 3 reported shows of gas. The tops of some important marker beds encountered in drilling these tests are given in Table 28. Data on oil production are given in Table 65, and gas production statistics are given in Table 66. The locations of the areas of oil and gas production and of dry wildcat wells are shown on Plate 2.

ELK COUNTY (Map Pl. 1)

The 1956 production from 37 areas in 30 fields: oil 300,983 barrels, gas 225,135 thousand cubic feet. Wells drilled in 1956 (estimated): oil 55, gas 5, dry 31, total 91 including 5 dry wildcats. Fields discovered 1, revived 1, abandoned 1.

Developments during 1956.—Oil production from Elk County was slightly less than during 1955, when 304,877 barrels was reported. It is estimated that 91 wells were attempted in the county during the year, considerably fewer than the 121 estimated for 1955.

The Phillips Petroleum Company found the new Arbuckle **Roby** field in August 1956. The discovery well, the No. 1 Roby, is located in sec. 20, T. 28 S., R. 9 E. An initial potential of 32 barrels of oil per day from a depth of 2,873 to 2,876 feet was assigned by state test. The old **Adams** gas field was revived with the com-



Table 28.—Dry wildcat tests drilled in Edwards County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Viola, feet	Depth to top of Arbuckle, feet	Total depth, feet
Graham-Messman-Rinehart Oil Co. No. 1 Davis "B"	NE NE NW 35-23-19W	2,217	3,986	4,687		4,750
Natl. Coop. Ref. Assn. No. 1 Lovette	SE SE NW 17-24-17W	2,123	3,888	4,437	4,724	4,760
Bennett & Roberts Drlg. Co. No. 1 Huff	NE NE NW 19-24-18W	2,148	3,950	4,636	4,930	4,987
Home-Stake Oil & Gas Co. No. 1 Brill	SE SE SW 28-24-18W	2,163	3,979	4,626	4,906	4,950
Kewanee Oil Co. No. 1 Shin	SE SW SW 16-24-19W	2,165	3,985	4,690	4,964	5,015
Kewanee Oil Co. No. 1 Samuel	SW NW NE 29-24-19W	2,177	4,014	4,741	5,008	5,058
*Harms-Burt Drlg. Co., et al. No. 1 Breitenbach	NE NE NW 10-25-16W	2,075	3,830	4,396	4,658	4,690
L. C. Smitherman Drlg. Co. No. 1 Wilson	NW NW SE 26-25-16W	2,061	3,868	4,375	4,700	4,735
*Aurora Gasoline Co. No. 1 Hupp	SW SW SE 17-25-17W	2,143	3,972	4,554	•••••	4,650
*E. A. Smith No. 1 Moletor	SW SW SW 22-25-19W	2,203	4,110		5,177	5,210
*E. A. Smith No. 1 Charlet	NW SE SW 32-25-19W	2,230	Tight Hole			4,747
D. R. Lauck Oil Co., Inc., et al. No. 1 Tam	NE NE SE 31-26-16W	2,104	4,044	4,669		4,728
Ambassador Oil Corp. No. 1 Chadd	SE SE SE 25-26-18W	2,153	4,104	4,772	5,026	5,051
Virginia Drlg. Co., Inc. No. 1 Millheisler	NE NE NE 17-26-20W	2,247	4,126	4,948	5,286	5,340

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

pletion of the Cro-Archer No. 1 Stohs Ranch well in sec. 29, T. 29 S., R. 13 E., in June. An initial potential of 1,133 thousand cubic feet of gas per day was assigned the "Burgess" sandstone at a depth of 1,680 to 1,683 feet. These developments are listed in Table 6.

The **Logsden Northeast** field, named in December 1955, was officially abandoned this year. There had been no production recorded from the field.

There were 2 gas, 1 oil, and 3 dry recorded wells drilled in the **Adams** field in 1956. Other fields with significant numbers of new recorded wells are: **Arbuckle**, 2 oil and 6 dry; **Longton**, 7 oil, 1 gas, and 2 dry; and **Porter**, 2 oil wells.



Five rank wildcat tests were drilled in Elk County during 1956. Two of the 5 reported shows of oil. All of the wildcat tests were drilled into Arbuckle dolomite. Table 29 gives the surface elevations and tops to the Kansas City group, the Mississippian strata, and the Arbuckle dolomite for these significant exploratory holes.

Oil production in the various Elk County fields is listed in Table 65, gas in Table 66. Locations of areas that produced oil in 1956 and of the dry wildcat tests are shown on Plate 1. There was no specific report on secondary recovery operations in Elk County; however, it is estimated that approximately 60,000 barrels of oil was produced by water-flooding projects in the county in 1956.

TABLE 29.—Dry wildcat tests drilled in Elk County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of K. C., feet	Depth to top of Mississip- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Aladdin Petro. Corp. No. 1 Lorton	SE SE SW 2-29-9E	1,190	1,482	2,297	2,646	2,695
The Veeder Supply & Dev. Co., et al. No. 1 Zenishek	NW SW NW 4-29-9E	1,222	1,548	2,354	2,698	2,702
Aladdin Petro. Corp. No. 1 M K & O	SW NW SW 21-30-9E	1,290	1,676	2,437	2,791	2,831
*C. A. Elack, Jr. No. 1 Axtell	SW SW SW 31-31-10E	1,145	1,416	2,200	2,519	2,546
Marts, Glick & Phillips No. 1 Leibau	SW SW NW 8-31-9E	1,155	1,572	2,327	2,645	2,693

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

ELLIS COUNTY

(Map Pl. 2)

The 1956 production from 112 fields: oil 11,618,360 barrels. Wells drilled in 1956: oil 167, dry 160, repressuring or salt-water disposal 5, total 332 including 33 dry wildcats. Reworked wells: oil 14, dry 3. Fields discovered 16, revived 3, combined 2.

Developments during 1956.—With an increase in oil production of more than 4 percent, Ellis County maintained its position as the second largest producer in the state (Table 3). An extensive drilling program resulted in 332 new wells, 52 more than reported during the previous year.

Seven new Arbuckle oil fields were named in the county during the year: the Boos, Engel, Heyl, Leiker North, Lieb, Potter, and Wagner fields. The Lieb field was the result of the reworking of

Generated at University of Kansas on 2023-10-02 18:15 GMT / https://hdl.handle.net/2027/uva.x002489216 Public Domain in the United States, Google-digitized / http://www.hathitrust.org/access_us#pd-us-google the No. 1 Lieb well in sec. 17, T. 11 S., R. 16 W., by the Frontier Oil Company. The Engel West, Riverview South, Schmeidler Southeast, Schoenchen Townsite, Seitz, Sweet William Northwest, and Walter Northwest field were all named new Lansing-Kansas City producers. The Engel West field was the result of the reworking of the No. 1 Engel well in sec. 33, T. 14 S., R. 18 W., by the Tomilson & Kathol Drilling Company. The North field and Schoenchen West field were named new Pennsylvanian basal conglomerate producers. Additional data on the discovery wells of these new fields are given in Table 6.

Of the 167 new oil wells drilled in the county during the year, 3 resulted in the revival of abandoned fields. The No. 1 Urban well in sec. 7, T. 15 S., R. 18 W., was completed in September by Thunderbird Drilling, Inc., and revived the **Dechant** field. The **Pleasant North** field was revived when W. J. Coppinger brought in the No. 1 Engel well in sec. 36, T. 13 S., R. 20 W., in July. Both of these fields reported production from the Arbuckle dolomite. A third field, the **Richards**, was revived with the completion of the National Cooperative Refinery Association No. 1 Cleve well in sec. 5, T. 11 S., R. 18 W., which is reported producing from the Lansing-Kansas City rocks. Further data on these revival wells are given in Table 6.

Developmental drilling programs resulted in the discovery of new producing zones in 7 fields. The "Pennsylvanian basal sand" and the Lansing-Kansas City rocks were found productive in the Engel field. The Irvin South, Leiker Southeast, Ubert Northwest, and Wheatland Southeast fields also reported Lansing-Kansas City production. Wabaunsee rocks were found productive in the county for the first time when the Skelly Oil Company No. 2 G. R. Solomon well (Solomon field) in sec. 24, T. 11 S., R. 19 W., was reworked. More information on these new zone discovery wells is given in Table 7.

Action by the Nomenclature Committee during the year resulted in the combination of the Walter Southeast with the Walter fields, the Karlin and Dinkel fields with the Catharine South, and Ellis South and Ellis Northeast with Ellis.

With the completion of 15 new oil wells and the reworking of 2 old wells within its limits, the **Bemis-Shutts** field maintained its position as the sixth largest producer in the state. Only 3 dry holes were drilled in the field during the year.



A total of 33 dry wildcats was drilled within the county during 1956, and specific data from the wells are given in Table 30. The locations of these tests and of oil producing areas are shown on Plate 2. Oil production statistics are given by fields in Table 65. Data on secondary recovery are given in Table 1.

TABLE 30.—Dry wildcat tests drilled in Ellis County during 1956

TABLE 30.—DTy wild	cai tesis ariii	ea in Lius	County at	iring 1930	
Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
Osage Oil & Gas Co., Inc., No. 1 Allbert	SW NE NE 30-11-19W	2,112	3,381	3,639***	3,760
*Carl Todd Drlg. Co. No. 1 Walz	NE NE SW 7-11-20W	2,109	3,406	3,715	3,726
Anschutz Drlg. Co., Inc., et al. No. 1 Thayer	SE SE NE 20-11-20W	2,135	3,472	3,857	3,895
Chas. Hulme Drlg. Contractor, et al. No. 1 Thayer	NE SW SW 20-11-20W	2,262	3,594	3,884***	3,937
Herndon Drlg. Co. No. 1 Davis "C"	NW NW SW 24-11-20W	2,013 .	3,314	3,653	3,675
*Alpine Oil & Royalty Co., Inc. No. 1 Hoff	SE NW NE 19-12-16W	2,118	3,352	3,629	3,659
*Greenland Drlg. Co. No. 1 Miller	NW NE SE 15-12-17W	2,145	3,391	3,684	3,699
*Strata Drlg., Inc. No. 1 Furthmeyer	NW NW SE 19-12-18W	2,173	3,469	3,790	3,835
Anschutz Drlg. Co., Inc., et al. No. 1 Younker	SE SE NE 9-12-19W	2,226	3,493	3,854	3,870
Transit Corp. No. 1 Schoenthaler "E"	NW NW NE 8-12-20W	2,271	3,590	3,966	3,994
Jones, Shelburne & Farmer, Inc. No. 1 Nicholson	NW NW SW 21-12-20W	2,214	3,515	3,877	3,924
*C-G Drl ^a . Co., et al. No. 1 Rome	NE NE SW 17-13-16W	1,983	3,249	3,540	3,565
*Nadel & Gussman No. 1 Leikam	NW NE NW 2-13-17W	2,065	3,324	3,596	3,630
*Shelly-Miller Drlg., Inc. No. 1 Kuhn	SE SE SE 12-13-17W	2,015	3,278	3,566	3,585
Frontier Oil Co. No. 1 Farmers State Bank	NW SW NE 7-13-18W	2,173	3,509	3,785	3,835
*Alpine Oil & Royalty Co., Inc. No. 1 Dreiling	SE SE SW 9-13-18W	2,170	3,482	3,805	3,850
*Altman Petroleum No. 1 Witt	SW SW SW 23-13-18W	2,065	3,355	3,700	3,738
*Frontier Oil Co. No. 1 Gatschet	SW SW NW 13-13-19W	2,079	3,381	3,675	3,700
Coppinger Drlg., Inc. No. 1 Augustine	NW NW SE 19-13-20W	2,257	3,564	3,965	4,016

SW SW SE 33-14-16W	1,867	3,152	3,431	3,460
SW SW NE 18-14-17W	1,986	3,278	3,545	3,572
SW NE NE 23-14-18W	1,958	3,254	3,584	3,600
NE NE NE 27-14-18W	2,008	3,296	3,654	3,690
NE NE SW 28-14-19W	2,135	3,435	3,773	3,810
SE SW NW 22-14-20W	2,234	3,515	3,885**	3,886
NE NE NE 23-14-20W	2,122	3,409	3,752	3,802
NW NW SE 14-15-16W	1,915	3,204	3,476	3,518
NW NW NW 22-15-16W	1,890	3,189	3,508	3,523
NW NW NE 10-15-17W	1,903	3,189	3,447***	3,503
SW SW SE 11-15-17W	1,931	3,222	3,547	3,600
NE NE SE 34-15-17W	1,894	3,205	3,485	3,520
NE NE SE 16-15-19W	1,998	3,300	3,638	3,654
SE SE NE 32-15-19W	2,055	3,353	3,663****	3,690
	33-14-16W SW SW NE 18-14-17W SW NE NE 23-14-18W NE NE NE 27-14-18W NE NE SW 28-14-19W SE SW NW 22-14-20W NE NE NE 23-14-20W NW NW SE 14-15-16W NW NW NW NW 22-15-16W NW NW NW NE 10-15-17W SW SW SE 11-15-17W NE NE SE 11-15-17W NE NE SE 11-15-17W NE NE SE 16-15-19W SE SE NE	33-14-16W SW SW NE 18-14-17W SW NE NE 18-14-17W SW NE NE 23-14-18W NE NE NE 27-14-18W NE NE SW 28-14-19W SE SW NW 22-14-20W NE NE NE 23-14-20W NW NW SE 1,915 14-15-16W NW NW NW 1,890 22-15-16W NW NW NW 1,903 10-15-17W SW SW SE 1,931 11-15-17W NE NE SE 1,894 34-15-17W NE NE SE 16-15-19W SE SE NE 2,055	33-14-16W SW SW NE 18-14-17W SW NE NE 18-14-17W SW NE NE 23-14-18W NE NE NE 27-14-18W NE NE SW 28-14-19W SE SW NW 2,135 28-14-19W SE SW NW 2,234 3,515 22-14-20W NE NE NE 23-14-20W NW NW SE 1,915 3,204 14-15-16W NW NW NW 1,890 22-15-16W NW NW NW 1,890 3,189 22-15-16W NW NW NW 1,993 3,189 10-15-17W SW SW SE 1,931 3,222 11-15-17W NE NE SE 1,894 3,205 34-15-17W NE NE SE 1,998 3,300 16-15-19W SE SE NE 2,055 3,353	33-14-16W SW SW NE 18-14-17W SW NE NE 19-58 23-14-18W NE NE NE 27-14-18W NE NE SW 27-14-18W NE NE SW 28-14-19W SE SW NW 22-14-20W NE NE NE 23-14-20W NW NW SE 1,915 3,204 3,476 14-15-16W NW NW NW 1,890 22-15-16W NW NW NW 1,890 3,189 3,508 22-15-16W NW NW NW 1,903 3,189 3,447*** 10-15-17W NE NE SE 1,931 3,202 3,547 11-15-17W NE NE SE 1,931 3,205 3,485 34-15-17W NE NE SE 1,894 3,205 3,485 34-15-17W NE NE SE 1,998 3,300 3,638 16-15-19W SE SE NE 2,055 3,353 3,663****

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

ELLSWORTH COUNTY

(Map Pl. 2)

The 1956 production from 18 fields: oil 2,990,054 barrels. Wells drilled in 1956: oil 30, dry 29, repressuring or salt-water disposal 1, total 60 including 5 dry wildcats. Reworked wells: oil 1, dry 2. Fields discovered 1, abandoned 1.

Developments during 1956.—Although reported oil production from Ellsworth County was about 2 percent less than during 1955, drilling activity continued at a high rate, resulting in the completion of 60 test and developmental wells including 30 new oil wells. No gas production was reported from the county during the year.

Exploratory drilling resulted in the completion of the No. 1 Hoch well in sec. 19, T. 15 S., R. 10 W., by the Birmingham &

^{**} Depth to top of the Precambrian, feet.

^{***} Depth to top of the Penn. congl., feet.

^{****} Depth to top of the Reagan, feet.

Bartlett Drilling Company, and the **Hoch** field was subsequently named in May. However, when the field failed to produce commercial quantities, it was abandoned by the Nomenclature Committee in September. More information on the discovery well of this field is given in Table 6.

The most drilling activity reported in the county was from the **Progress Northwest** field, which recorded a total of 8 new oil wells and 6 dry holes. Crude production for the field increased to 146,693 barrels in 1956, more than 4 times the figure recorded for the previous year.

The discovery of Simpson rocks, as a new oil producer in the **Stoltenberg** field, was reported with the completion of the No. 1 Zitzman well in sec. 23, T. 16 S., R. 10 W., by D. T. Ingling and others. Further information on this well is given in Table 7.

Five dry wildcat tests were completed in the county during the year, and pertinent data from the wells are given in Table 31. The locations of these tests and of oil producing areas are shown on Plate 2. Production statistics for the county are listed in Table 65.

TABLE 31.—Dry wildcat tests drilled in Ellsworth County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
*Divanco Oil Co. No. 1 Dolezal	SW SW SE 8-15-7W	1,686	2,728	••••••	2,940
*Eugene O. Huebner No. 1 Mehl	SE SE SW 16-16-9W	1,770	2,909	3,514	3,547
*Derby Drlg. Co. No. 1 Kollman	SE NE SW 13-17-8W	1,663	2,725	3,377	3,380
Greenland Drlg. Co. No. 1 Rolfs	SW SW NW 16-17-9W	1,790	2,898	3,318	3,325
*Brown & Fortier & Duke No. 1 Frevert	NW NW NW 15-17-10W	1,835	2,982	3,318	3,337

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

FINNEY COUNTY

(Map Pl. 3)

The 1956 production from 10 fields: oil 371,170 barrels, gas 38,-048,847 thousand cubic feet. Wells drilled in 1956: oil 11, gas 49, dry 9, total 69 including 8 dry wildcats. Reworked wells: gas 1. Fields discovered 2, combined 1.

Developments during 1956.—Gas production in Finney County

increased by more than 11 percent to a new record high of over 38 billion cubic feet. Oil production increased about 20 percent over the previous year.

In the Finney County portion of the **Hugoton Gas Area** (Table 10), 49 new Chase group gas wells were completed, and 1 old well was successfully worked over, bringing the total number of gas wells completed in the county to 520. The Texas Company No. 1 Gould Gas Unit in sec. 5, T. 23 S., R. 32 W., was rated at more than 27 million cubic feet per day, the largest initial potential assigned that year. Four other **Hugoton** gas wells were also assigned initial potentials of over 25 million cubic feet per day. A total of 456 wells reported production in the field during the year. The locations of all gas wells drilled in the county during the year are shown on Plate 3.

Developmental drilling in the **Damme** field resulted in the completion of 9 new oil wells, which was a major factor in doubling the production from that field. The initial potential of these new wells exceeded 200 barrels of oil per day from Mississippian strata.

Exploratory drilling programs in the county resulted in the naming of two new oil fields. The Champlin Refining Company No. 2 Leavitt well in sec. 17, T. 23 S., R. 34 W., was the discovery well of the **Sequoyah** field, and the **Pleasant Prairie Northwest** field was named when the No. 1-30 U.S.A. well in sec. 30, T. 26 S., R. 34 W., was brought in by Helmerich & Payne, Inc. The **Sequoyah** field reported production from the Morrowan rocks, and production from the **Pleasant Prairie Northwest** field was assigned to the Mississippian strata. More information on the discovery wells of these fields is given in Table 6.

A single combination was made in the county when the **Damme South** field was combined with the **Damme** field in December. Both of these fields were reported producing from Mississippian rocks.

In contrast to the previous year, when no wildcats were attempted, 1956 drilling programs resulted in the completion of 8 wildcat tests. Although nearly all of the wells were drilled to the depth of the Mississippian rocks, no shows of oil or gas were reported. Further data on the test wells are given in Table 32. The locations of these wells and of oil and gas producing areas are shown on Plate 3. Oil production statistics are given in Table 65, and gas production statistics in Table 66.



TABLE 32.—Dry wildcat tests drilled in Finney County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Total depth, feet
*Dutch George Drlg. No. 1 Doll	SW SW NE 16-21-30W	2,801	2,690**	•••••	3,225
Alfred McKelvy No. 1 Deal	C NE SE 23-21-30W	2,797	3,967	4,635	4,783
Bennett & Roberts Drlg. Co. No. 1 Drees	NW NW SE 31-21-30W	2,877	4,027	4,685	4,855
Bennett & Roberts Drlg. Co. No. 1 Rayl	C E½ W½ NV 27-21-31W	7 2,898	2,722**		2,780
Bennett & Roberts Drlg. Co. No. 1 Oatcum	SW SW SW 30-22-30W	2,874	4,027	4,711	4,900
Champlin Ref. Co. No. 4 Garden City	C NW SE 18-23-34W	2,981	3,807	4,780	5,650
F. Kirk Johnson No. 1 Kisner	SW SW SW 21-24-31W	2,912	4,044	4,817	5,120
Northern Natural Gas Co. No. 1 Brown "EE"	C SW NW 21-25-34W	2,978	3,922	4,972	5,300

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

FORD COUNTY

(Map Pl. 3)

The 1956 production from 3 fields: oil 1.863 barrels, gas 429.619 thousand cubic feet. Wells drilled in 1956: oil 1, gas 1, dry wildcats 5, total 7. Fields discovered 1, combined 1.

Developments during 1956.—Although oil production from Ford County decreased by more than 40 percent, gas production continued to increase to such an extent that a new high of over 429 million cubic feet was reached in 1956.

Exploratory drilling resulted in the discovery of the county's second oil field when The Pure Oil Company and The Ohio Oil Company brought in a Mississippian producer on the Anna Konda lease in sec. 11, T. 27 S., R. 22 W. The well was tested and given an initial potential of 44 barrels of oil per day, and the Konda field was subsequently named in November by the Nomenclature Committee. More information on the discovery well of this field is given in Table 6.

Other action by the Nomenclature Committee during the year combined the Pleasant Valley South field with Pleasant Valley in April.

^{**} Depth to the top of the Krider, feet.

Five rank dry wildcat wells were drilled in the county during 1956, and specific information on each of the tests is given in Table 33. The locations of these wildcat wells and of oil and gas producing areas are shown on Plate 3. Oil production figures are listed in Table 65, and gas data are listed in Table 66.

TABLE 33.—Dry wildcat tests drilled in Ford County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Kewanee Oil Co. No. 1 Keller	SW SE SE 16-25-23W	2,432	4,098	4,768	5,485	5,535
Kewanee Oil Co. No. 1 Converth	SW SW SW 10-26-25W	2,626	4,346	5,077	5,879	5,923
Jack L. Worley, et al. No. 1 Rundell	SE SE NW 15-27 - 21W	2,308	4,238	4,910	•	5,02 5
Kewanee Oil Co. No. 1 Polson	SW SE SE 26-28-23W	2,516	4,481	5,188	6,141	6,20 0
Kewanee Oil Co. No. 1 Burnett	SW SE SW 22-28-25W	2,623	4,452	5,188	6,238	6,2 78

FRANKLIN COUNTY

(Map Pl. 1)

The 1956 production from 13 areas in 5 fields: oil 347,569 barrels including an estimated 290,028 barrels from secondary recovery operations. Wells drilled in 1956 (estimated): oil 92, dry 17, repressuring 44, total 153 including 1 dry wildcat.

Developments during 1956.—Oil production in Franklin County was considerably less in 1956 than in 1955, when 376,674 barrels was reported. It is estimated that 153 wells were drilled in the county during 1956, which number compares favorably with an estimated 130 drilled the previous year.

One rank wildcat was reported drilled in Franklin County during 1956. It is the Snofer No. 1 Hutchinson in the NW¼ SW¼ sec. 10, T. 18 S., R. 18 E. From an elevation of 1,104 feet above sea level the hole was drilled to a total depth of 1,076 feet. No tops to marker beds or shows of oil were reported. The location of this wildcat well is shown on Plate 1.

Data on water-flooding projects in Franklin County are listed in Table 1. Oil production in the various areas is listed in Table 65. Locations of areas from which oil was produced in 1956 are shown on Plate 1.

GEARY COUNTY (Map Pl. 1)

Wildcat wells have been drilled in Geary County from time to time, but no producing pool has been found. According to State Geological Survey records, 18 tests had been drilled in the county previously. One test was drilled in 1956.

Exploration during 1956.—The William H. Pine No. 1 Fechner well, in the NW¼ NW¼ SE¼ sec. 19, T. 12 S., R. 8 E., was drilled to a total depth of 2,025 feet in December 1956. From an elevation of 1,324 feet above sea level the following tops were reported: base of Kansas City, 1,680; "conglomerate", 1,895; and base of Mississippian rocks, 1,992 feet. No shows of oil or gas were reported. The location of the rank wildcat test is shown on Plate 1.

GOVE COUNTY (Map Pl. 3)

The 1956 production from 7 fields: oil 25,319 barrels. Wells drilled in 1956: oil 1, dry wildcats 2, total 3. Reworked wells: oil 1.

Developments during 1956.—Oil production in Gove County decreased by more than 16 percent during the year, and drilling activity also declined. Exploratory drilling failed to discover any new pools, although developmental drilling did meet with some success.

The O. A. Sutton Drilling Company brought in the No. 1 Steckel well in sec. 23, T. 13 S., R. 30 W. (Gove field), which reported an initial potential of 100 barrels a day from Lansing-Kansas City rocks. Reworking of the No. 1 Lundgren well in sec. 31, T. 14 S., R. 29 W., by the Wycoff & Williams Drilling Company proved successful in adding to the production of the Lundgren field.

Exploratory drilling programs were restricted to the drilling of 2 rank dry wildcat tests. The Imperial Oil Company No. 1 Long well in the NE¼ NE¼ NW¼ sec. 36, T. 11 S., R. 26 W., was drilled from a rotary bushing elevation of 2,614 feet above sea level to a total depth of 4,737 feet. The top of the Lansing group was picked on the electric log at a depth of 3,909 feet, the top of the Cherokee at 4,408 feet, and the top of the Arbuckle at 4,702 feet. Drill-stem tests were run in both the Lansing and Cherokee strata, but no shows of oil or gas were reported. The well was

abandoned in September. The second dry wildcat test was the Cities Service Oil Company No. 1 Lundgren well in the NW¼ NW¼ NW¼ sec. 27, T. 14 S., R. 29 W. Drilled from a rotary bushing elevation of 2,602 feet above sea level to a total depth of 4,415 feet, the well penetrated the top of Lansing rocks at a depth of 3,696 feet and the top of the Mississippian rocks at a depth of 4,321 feet. Numerous drill-stem tests failed to detect a show of gas or oil, and the well was abandoned in August. The locations of these dry wildcat tests and of oil producing areas are shown on Plate 1. Oil production statistics are listed in Table 65.

GRAHAM COUNTY (Map Pl. 3)

The 1956 production from 48 fields: oil 6,040,225 barrels. Wells drilled in 1956: oil 143, dry 130, total 273 including 40 dry wildcats. Reworked wells: oil 4. Fields discovered 4, combined 4.

Developments during 1956.—Although drilling activity in Graham County decreased by more than 20 percent, oil production continued to increase as 143 new oil wells were completed in 22 fields. No gas production was reported during the year.

Before the end of the year 4 new oil fields were named in the county by the Nomenclature Committee. The Brassfield, Evergreen, and Lacerte fields were designated as new Lansing-Kansas City producers, and the Hatcher field was named as a new Arbuckle producer. Complete information on the discovery wells of these fields is given in Table 6.

Other action by the Nomenclature Committee in 1956 resulted in the combining of the Holley West field with Holley (Lansing-Kansas City production) in April, and the Morel East field with Morel (Arbuckle production) in November. Two additional combinations which extended into adjacent counties were also made. The Cooper North, Laura, Morlan, Muilenburg, and Smith-Denning fields in Graham County and the Palco Southwest field and portions of the Palco field in Rooks County were all combined with the Cooper field. The Noah, Spaulding, and White Southwest fields in Graham County and the Al'phin, A'lphin Northwest, Annon, Annon South, Bassett, Laura Southeast, and Marcotte South fields in Rooks County were all combined under the new name of Trico.



Developmental drilling during the year was concentrated in 2 fields. The Cooper field reported the completion of 23 new oil wells, 2 reworked wells, and 17 dry holes. The Holley field reported the completion of 47 new oil wells, 1 reworked well, and 12 dry holes. The production from the Holley field increased about 300 percent, clearly reflecting the highly active drilling program within the field.

Exploratory drilling in the county resulted in the completion of 40 rank dry wildcat wells, 7 of which reported slight shows of oil and 1 reported a show of gas. The tops of some important marker beds encountered in drilling the tests are given in Table 34. The locations of these wildcats and of oil producing areas are shown on Plate 3. Production statistics are listed in Table 65.

TABLE 34.—Dry wildcat tests drilled in Graham County during 1956

Company and farm	Location		Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth feet
Company and farm	Location	feet			1eet
Jones, Shelburne & Farmer, Inc., et al. No. 1 Boys	App. SW SW NE 6-6-21W	2,228	3,507	3,803	3,823
*Jones, Shelburne & Farmer, Inc. No. 1 Frasca	C S½ SW NW 31-6-21W	2,226	3,474	3,798	3,805
*Jones, Shelburne & Farmer, Inc. No. 1 Jenkins	SW SW SW 33-6-21W	2,185	3,427	3,721	3,746
The Veeder Supply & Development Co., et al. No. 1 Rush	NW NW NW 15-6-22W	2,333	3,583	3,870	3,900
Bankoff Oil Co., et al. No. 1 Broomfield	NW NW SE 16-6-22W	2,375	3,619	3,893	3,934
Musgrove Petro. Corp. No. 1 Logue	NW NW NE 8-6-24W	2,474	3,632	4,099	4,140
Jones, Shelburne & Farmer, Inc. No. 1 Organ	NE NE NE 17-6-25W	2,584	3,680	3,867**	3,883
Osage Oil & Gas Co., Inc. No. 1 Worcester	SW SE NE 23-7-22W	2,219	3,458	3,799	3,800
*J. A. Terteling & Sons No 1 Hale	NE NE NW 11-7-23W	2,387	3,650	4,040	4,062
Anschutz Drlg. Co., Inc., et al. No. 1 Kobler	NE NE SW 17-7-23W	2,426	3,692	3,903**	3,930
K & E Drlg., Inc., et al. No. 1 Hyde	SE SE SE 19-7-24W	2,498	3,773	3,982**	4,000
C-G Drlg. Co., et al. No. 1 Lindeman	SW SW SE 23-7-25W	2,542	3,764	3,972**	3,994
*Artnell Co. No. 1 Emery	SW SW SW 29-8-21W	2,204	3,430	3,642**	3,766
Harms-Burt Drlg. Co., et al. No. 1 Newell	NE NE SW 30-8-21W	2,166	3,406	3,756	3,800
Leben Drlg. Co. No. 1 Kirkpatrick	NW NW NE 24-8-22W	2,112	3,346	3,675	3,705

The Veeder Sup. & Develop- ment Co. No. 1 Buzz	NW NW SE 35-8-22W	2,147	3,396	3,791	3,840
*The Veeder Sup. & Develop.	NW NW SW	2,203	3,476	3,847	3,885
Co., et al. No. 1 Ellsworth	1-8-23W	_,	-,	-,	-,
*Leben Drlg. Co., et al.	SE SE SE	2,312	3,587	3,991	4,018
No. 1 Kloper	5-8-23W	_,	-,	-,	•
Carl Todd Drlg. Co.	SW SW NW	2,235	3,511	3,901	3,936
No. 1 McVey	11-8-23W	-,		•	•
*Bennett & Roberts Drlg. Co.	SE SE NW	2,408	3,728		3,980
No. 1 St. John	27-8-25W	-,	-,		•
Honaker-Davis Drlg. Co.,	SE SE NW	2,366	3,726	3,946**	3,960
et al. No. 1 Scott	6-9-23W	•	·	-	•
*Jones, Shelburne & Farmer,	SE SE NW	2,303	3,635	3,865**	3,880
Inc. No. 1 Jones	14-9-23W	•			
K & E Drlg., Inc., et al.	NE NE NW	2,378	3,702		3,921
No. 1 Underhill	16-9-23W	·		•	
Heathman-Seeligson Drlg.	NW NW NW	2,445	3,769	3,991**	4,000
Co. No. 2 Edwards Estate	21-9-23W	•			
Transit Corp., et al.	NW NW NE	2,384	3,679	4,161	4,168
No. 1 Ninemire "B"	24-9-23W				
Coppinger Drlg Inc., et al.	SW SW NW	2,395	3,713	3,930**	4,164
No. 1 Radke	27-9-23W				
K & E Drlg., Inc.	SW SW NW	2,430	3,792	4,011**	4,030
No. 1 Hildebrand	13-9-24W				
Honaker-Davis Drlg. Co.,	SE SE NE	2,488	3,828	4,053**	4,063
et al. No. 1 Keith	18-9-24W				
Honaker-Davis Drlg. Co.,	NW NW SE	2,511	3,865	4,086**	4,100
et al. No. 1 Drury	26-9-24W				
*Imperial Oil of Kansas, Inc.	SW NE SE	2,543	3,874		4,087
No. 1 Kohart	28-9-24W				
*Nadel & Gussman	SE SE SW	2,233	3,530	3,931	3,947
No. 1 Hills	19-10-21W				
*Chas. Hulme Drlg. Con-	NW NW SE	2,351	3,605	4,007	4,065
tractor, et al. No. 1 Mullaney	4-10-22W				
K & E Drlg., Inc., et al.	NW NW NE	2,348	3,622	4,080	4,107
No. 1 Dreiling	20-10-22W			4.055	4 000
Theodore Gore, et al.	NW NW SE	2,307	3,572	4,057	4,082
No. 1 Griffith	21-10-22W	0.105	0.400	0.005	0.005
*Nadel & Gussman	SE SE SW	2,187	3,480	3,865	3,885
No. 1 H. R. Sutor	24-10-22W	0.057	0.001	2 202 * *	2 025
Francis Oil & Gas, Inc. No. 1 Conness "B"	NE NE NW 23-10-23W	2,357	3,661	3,893**	3,925
Simon Lebow, et al.	NE NE SE	2.450	2 705	4,027**	4,040
No. 1 Berschauer	10-10-24W	2,450	3,795	4,021	4,040
Honaker-Davis Drlg. Co.,	NW NW NW	2,478	3,818	4,058**	4,070
et al. No. 1 Schamberger	16-10-24W	2,410	3,010	4,000	4,010
Empire Drlg. Co., et al.	SE SE SE	2,547	3,831	4,061**	4,090
No. 1 David Rush	8-10-25W	2,021	0,001	±,001	±,000
Mammoth Oil Prod.	NE NE SE	2,509	3,876	4.090**	4,105
No. 1 Weiser	28-10-25W	2,000	5,010	2,000	1,200

^{*} 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 base of the Kansas City group, feet.

GRANT COUNTY (Map Pl. 3)

The 1956 production from the Grant County portion of the Hugoton Gas Area: gas 77,166,752 thousand cubic feet. Wells drilled in 1956: gas 2, storage 2, total 4.

Developments during 1956.—Once again Grant County has maintained its position as the second largest gas producing county in the state with a reported production of 77,166,752 thousand feet of gas from 572 wells. Only 2 new gas wells were drilled in the county during the year.

The No. 1 Thorpe "C" well in the SW¼ SW¼ NE¼ sec. 5, T. 27 S., R. 37 W., was brought in by the Northern Natural Gas Producing Company in September with an initial potential of 16,400,000 cubic feet of gas per day. The well was drilled from a rotary bushing elevation of 3,079 feet above sea level to a total depth of 2,700 feet. The second well, the No. 1 Waechter "A" in the SW¼ SW¼ NE¼ sec. 6, T. 27 S., R. 37 W., was also drilled by the Northern Natural Gas Producing Company. The well was completed in October with an initial potential of 17,900,000 cubic feet of gas per day. Drilling started at a rotary bushing elevation of 3,077 feet above sea level and ceased at a total depth of 2,630 feet. Production from both of these wells was assigned to the Chase group.

Two more storage wells were completed by the Stanolind Oil and Gas Company in June bringing the total of such wells to 8. Both wells were drilled to a total depth of 1,726 feet.

The locations of the 2 new gas wells are shown on Plate 3, and the gas production figures for Grant County are given in Table 66. The early history of the **Hugoton Gas Area** is discussed in the chapter on natural gas.

GREELEY COUNTY (Map Pl. 3)

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

Exploration during 1956.—A total of 4 rank dry wildcat wells was reported from the county during the year. All the test wells penetrated the Mississippian strata, 3 of which reported shows of



gas cut mud. Specific data on these wells are listed in Table 35, and the locations of the wells are shown on Plate 3.

TABLE 35.—Dry wildcat tests drilled in Greeley County during 1956

_					
Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Total depth, feet
Geo. Caulkins Oil Co. No. 1 Brunswig	C NW SW 6-18-39W	3,566	4,330	5,216	5,925
Geo. Caulkins Oil Co. No. 1 Fankhauser	C NW SE 21-18-39W	3,468	4,270	5,062	5,205
Van-Grisso Oil Co. No. 1 Clift	C SW SW 9-19-40W	3,616	4,338	5,258	5,395
Van-Grisso Oil Co. No. 1 Watson	C SE SE 8-20-39W	3,527	4,312	5,205	5,388

GREENWOOD COUNTY

(Map Pl. 1)

The 1956 production from 60 areas in 50 fields: oil 6,788,601 barrels including an estimated 5,365,499 barrels from secondary recovery projects. Wells drilled in 1956 (reported): oil 115, dry 45, repressuring (estimated) 86, total 246 including 4 dry wildcats. Reworked wells: oil 3. Fields discovered 1, combined 2.

Developments during 1956.—Greenwood County's oil production was increased over that of 1955, when 6,485,392 barrels was reported. An estimate of the number of new wells drilled in 1956 totals 246, substantially fewer than were estimated drilled the previous year (372). Approximately the same amount of oil was produced by secondary recovery methods during 1955 and 1956.

The **Mignot** field, found in 1951 by the Inland Oil, Inc., No. 1 Mignot well in sec. 9, T. 22 S., R. 11 E., was officially recognized by the Kansas Nomenclature Committee during 1956. Production in the discovery well is from the "Bartlesville" sand at a depth of 1,921 to 1,931 feet. The initial potential assigned the discovery well was 5 barrels of oil per day. This development is listed in Table 6.

During the year, the Atyeo field of Chase, Greenwood, and Lyon Counties was combined with the Pixlee field of Butler County and is now designated the Atyeo-Pixlee field.

Production of an estimated 5,365,499 barrels of oil by secondary recovery methods from a recorded and estimated 49 projects in Greenwood County oil fields during 1956 places the county



first in secondary recovery oil production. Data on these important projects are given in Table 1.

Four dry wildcat wells were drilled in the county during the year. No shows of oil or gas were reported on these holes. Data on the marker beds encountered in the drilling of these holes are given in Table 36.

Oil production statistics in the various fields are listed in Table 65. Plate 1 shows the locations of areas from which oil was produced and of dry wildcat wells in 1956.

TABLE 36.—Dry wildcat tests drilled in Greenwood County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of K. C., feet	Depth to top of Mississ!p- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
*Shira Drlg., Inc., et al. No. 1 Schwintz	NE SE NW 3-24-11E	1,157	1,239	2,039	•••••	2,075
*Beaumont Petro. Co. No. 1 Guld	SW SW SW 9-27-9E	1,292	1,575	2,373	2,735	2,788
*Ventures, Inc. No. 1 Peacock	SW NE SW 15-27-12E	1,080		1,735	•	1,806
*Wm. Glasco No. 1 F. Glasco	App. SW NE SW 11-28-10E	•		2,045	2,509	2,517

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

HAMILTON COUNTY

(Map Pl. 3)

The 1956 production from 2 fields: oil 5,922 barrels, gas 4,297,064 thousand cubic feet. Wells drilled in 1956: gas 2, dry 5, total 7 including 5 dry wildcats.

Developments during 1956.—The Helfrich field, Hamilton County's only oil field, reported production of 5,922 barrels during the year, about 35 percent less than the previous year. Gas production, all from the Chase group of rocks in the Hugoton Gas Area, declined more than 17 percent.

Developmental drilling in the county resulted in the completion of 2 new gas wells within the **Hugoton Gas Area**. The Southwestern Exploration Company No. 1 Unruh well in the cen. SE¼ sec. 18, T. 26 S., R. 39 W., was brought in during November with an initial potential of 7,980,000 cubic feet of gas per day. The second Hugoton well was completed by Walter Kuhn on the Kritzmire lease in the cen. SE¼ sec. 24, T. 26 S., R. 40 W., in

November. It was assigned an initial potential of 700,000 cubic feet of gas per day. The locations of both of these new gas wells are shown on Plate 3.

The Musgrove Petroleum Corporation No. 1 Scholz well in the cen. NE¼ NE¼ sec. 7, T. 25 S., R. 42 W., was the only well drilled within the **Helfrich** during the year. It was drilled from a rotary bushing elevation of 3,638 feet above sea level to a total depth of 5,427 feet. A drill-stem test at a depth of 5,360 to 5,375 feet reported 60 feet of oil cut mud, but no production resulted and the well was abandoned in July.

Exploratory drilling in the county resulted in the completion of 4 wildcat tests, of which 3 recorded shows of gas. Additional data on these wells are given in Table 37. The locations of the wildcat wells and of the areas of oil and gas production are shown on Plate 3. Oil production statistics are listed in Table 65, and gas statistics are given in Table 66.

TABLE 37.—Dry wildcat tests drilled in Hamilton County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Total depth, feet
Jones, Shelburne & Farmer Inc., et al. No. 1 Grilliot	,SW SW SW 17-21-40W	3,577	4,020	5,286	5,536
Time Petro. Co. No. 1 Burnett	SE SE SE 29-23-39W	3,355	3,855	5,193	5,293
Kansas-Nebraska Natural Gas Co., Inc. No. 1 Wilcox	C SE 36-23-39W	3,341	3,866	5,151	5,351
J. M. Huber Corp. No. 1 Storey	SW SW SW 21-26-41W	3,312	3,715	5,231	5,387

HARPER COUNTY (Map Pl. 2)

The 1956 production from 7 fields: oil 773,817 barrels, gas 2,590,-594 thousand cubic feet. Wells drilled in 1956: oil 24, gas 2, oil and gas 7, dry 24, repressuring or salt-water disposal 2, total 59 including 14 dry wildcats. Reworked wells: dry 1. Fields discovered 3, combined 3, abandoned 1.

Developments during 1956.—Although drilling activity in Harper County declined during 1956, both oil and gas production showed a marked increase. All of the gas reported was produced from the **Spivey-Grabs** field.

Two new producing fields were named in the county during



the year by the Nomenclature Committee. The Banner South field was named in February when Roland L. Pelt et al. brought in the No. 1 Hennes well in sec. 4, T. 33 S., R. 7 W. Production was assigned to the Misener rocks. The Mississippian rocks were designated the source of oil in the Sunny View South field, which was discovered in January when the Rupp-Ferguson Oil Company completed the No. 1 Miller well in sec. 2, T. 31 S., R. 9 W. A third field, Wildcat Creek, was named in March with the completion of the No. 1 Denton-Fox well by the J. M. Huber Corporation and The Continental Oil Company. However, when the well failed to produce commercial quantities of oil, it was abandoned by the Nomenclature Committee in May. More information on the discovery wells of these new fields is given in Table 6.

Other action by the Nomenclature Committee resulted in the combining of **Grabs South** with the **Grabs** field in January and **Sunny View South** with **Sunny View** field in April. Later action in August combined both these fields and the **Grabs Northwest** field under the new name of **Spivey-Grabs**. This combination extends into Kingman County and is more fully discussed in the Kingman County section of this report.

The newly formed **Spivey-Grabs** field became the county's leading producer, recording 697,241 barrels of oil and 2,590,594 cubic feet of gas produced during the year. Drilling activity within the field resulted in the following new completions: 16 oil wells, 2 gas wells, 6 oil and gas wells, and 4 dry holes.

Exploratory drilling programs in the county resulted in the completion of 14 dry wildcat wells penetrating the Mississippian strata. Eight of these wells reported shows of gas, and 4 reported shows of oil. The tops of some important marker beds encountered by the tests are listed in Table 38. The locations of these wildcat wells and of oil and gas producing areas are shown on Plate 2. Oil production data are given in Table 65, and gas production data are given in Table 66.

HARVEY COUNTY (Map Pl. 2)

The 1956 production from 10 fields: oil 226,931 barrels, gas 401,-153 thousand cubic feet. Wells drilled in 1956: oil 12, gas 2, dry 25, total 39 including 12 dry wildcats. Fields discovered 2.



TABLE 38.—Dry wildcat tests drilled in Harper County during 1956

			_		
Company and farm	Location	Surface elevation, feet	Depth to top of Mississ:p- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Gene Goff No. 1 Moritz	NE NE NE 30-31-5W	1,366	4,214	4,808	4,856
Gene Goff No. 1 Prouse	SE SE NW 30-31-6W	1,452	4,329	4,850	4,893
Aurora Gasoline Co. No. 1 Meyer	NE NE NW 9-31-7W	1,596	4,381	4,939	4,961
Jones, Shelburne & Farmer Inc., et al. No. 1 Joslin	, NE NE NE 22-31-7W	1,545	4,393	4,928	4,978
Herndon Drlg. Co. No. 1 Watt	NW NW SW 29-32-6W	1,408	4,425	4,829*	4,839
The Pure Oil Co. No. 1 P. E. Wedman	NW NW SE 35-32-6W	1,336	4,349	4,915	4,980
Aurora Gasoline Co. No. 1 Garber	SW SW NE 17-32-7W	1,418	4,401	4,923	4,976
Mull Drlg. Co., Inc. No. ¹ Coryell	C SW NW 9-32-9W	1,457	4,312		4,355
Musgrove Petro. Corp., et al. No. 1 Archibald	SW SW SE 11-32-9W	1,527	4,412	•••••	4,485
Falcon Seaboard Drlg. Co. No. 1 Hranicka	SW SW SW 15-34-5W	1,220	4,535	5,033*	5,074
J. M. Huber Corp. No. 1 Kather	NE SE NE 16-34-7W	1,404	4,696	5,393	5,457
Jones, Shelburne & Farmer Inc. No. 1 Livengood	14-35-6W	1,259	4,750	5,602	5,652
Provincial Oil Co. No. 1 Burchfield	NE NE SE 3-35-7W	1,336	4,788	5,554	5,610
J. M. Huber Corp. No. 1 Jones	NW NW SE 6-35-8W	1,258	4,736	•	4,892

^{*} Depth to the top of the Simpson, feet.

Developments during 1956.—Both oil and gas production from Harvey County increased about 20 percent over the previous year's figures as drilling programs resulted in the completion of 12 new oil wells and 2 gas wells.

Two new Mississippian fields were named in the county during the year. The **Burrton East** field was discovered when the Stelbar Oil Corporation, Inc., brought in an oil well on the Becker lease in sec. 28, T. 23 S., R. 3 W., in November. The well was drilled from a rotary bushing elevation of 1,449 feet above sea level to a total depth of 3,322 feet. Several drill-stem tests were run, and an initial potential of 5 barrels of oil per day was assigned. A second field, the **Burrton North gas** field, was named upon the completion of the W. L. Hartman No. 1 Harrison well in sec. 32, T. 22 S., R. 3 W. Drilled from a rotary bushing elevation

of 1,462 feet above sea level to a total depth of 3,917 feet, the well was assigned an initial potential of 1,100,000 cubic feet of gas per day from the Mississippian strata. Additional data on these discovery wells are given in Table 6.

Exploratory drilling within the county resulted in the completion of 12 rank dry wildcats which penetrated the Mississippian rocks. Eight of the tests were concentrated in the southeast part of the county, reflecting high interest in that area. More complete data on these wildcat wells are listed in Table 39. The locations of these test wells and of oil and gas producing areas are shown on Plate 2. Oil production statistics are listed in Table 65, and gas statistics are given in Table 66.

HASKELL COUNTY (Map Pl. 3)

The 1956 production: oil from 1 field 121,074 barrels, gas (all from

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

the Hugoton Gas Area) 31,391,477 thousand cubic feet. Wells drilled in 1956: oil 4, gas 19, dry 4, total 27 including 3 dry wildcats.

Developments during 1956.—Haskell County's only oil field, Pleasant Prairie, increased its production by more than 85 percent as the total number of producing wells in the field reached 11. Gas production from the part of the county in the Hugoton Gas Area showed a slight reduction from the previous year's total, although 19 new gas wells were completed during the year.

Developmental drilling in the **Pleasant Prairie** field by Helmerich and Payne, Inc., resulted in the completion of 4 new Mississippian oil producers in the Jones lease in secs. 4 and 5, T. 27 S., R. 34 W. All were assigned initial potentials in excess of 120 barrels of oil per day. Routine development of the productive Chase group rocks in the Hugoton Gas Area added 19 new gas wells and 1 dry hole, as Haskell County maintained its position as the fourth largest producer in the field. The locations of these new wells are shown on Plate 3.

Exploratory drilling resulted in the completion of 3 deep dry wildcat tests. J. M. Huber, Inc., drilled the No. 1 Audrey well in the cen. NE¼ SW¼ sec. 11, T. 27 S., R. 31 W., from a rotary bushing elevation of 2,816 feet above sea level to a total depth of 5,249 feet. The No. 1 Thompson well in the cen. SW1/4 SW1/4 sec. 21, T. 27 S., R. 32 W., was drilled by the Champlin Refining Company from a rotary bushing elevation of 2,899 feet above sea level to a total depth of 5,420 feet. A third wildcat test was completed by J. M. Huber, Inc., on the Weirauch lease in the cen. NE¼ NE¼ sec. 23, T. 28 S., R. 31 W. The well was drilled from a rotary bushing elevation of 2,878 feet above sea level, and it penetrated the Arbuckle dolomite before reaching a total depth of 6,530 feet. The locations of these rank dry wildcat wells and of the oil and gas producing areas are shown on Plate 3. Oil production figures are listed in Table 65, and gas figures are listed in Table 66.

HODGEMAN COUNTY (Map Pl. 3)

The 1956 production from 5 fields: oil 120,853 barrels. Wells drilled in 1956: oil 4, dry wildcats 5, total 9. Fields discovered 2.

Developments during 1956.—For the first time in several years, oil production has increased in Hodgeman County pri-



marily because of successful exploration programs which resulted in the discovery of 2 new pools. A total of 5 widely distributed dry wildcat tests were drilled in the county during the year.

The discovery well of the **Hallet** field was brought in by the Kewanee Oil Company in August on the Larkin lease in sec. 15, T. 22 S., R. 25 W. The well was drilled to a total depth of 4,693 feet and was assigned an initial potential of 250 barrels of oil per day from the Mississippian rocks. The **Wieland** field was named upon the completion of the Mayfair Minerals, Inc., No. 1 Wieland well in sec. 16, T. 21 S., R. 22 W. Drilled from a rotary bushing elevation of 2,287 feet above sea level, the well penetrated 2 pay zones in Mississippian strata before reaching a total depth of 4,550 feet. An initial potential of 64 barrels of oil per day was assigned to the well in September. More information on these discovery wells is given in Table 6.

Developmental drilling in the Saw Log Creek field was successful in discovering a producing zone in the Cherokee rocks. The discovery well was drilled on the Hall lease by the Atlantic Refining Company in sec. 36, T. 23 S., R. 22 W., and the producing zone was encountered at a depth of 4,478 feet to 4,486 feet. Additional data on this well are listed in Table 7.

Exploratory drilling in the county resulted in the completion of 5 dry wildcat tests, 1 of which recorded a show of oil. The tops of some important marker beds encountered by these wells are given in Table 40. The locations of the wildcat wells and of the oil and gas producing areas are shown on Plate 3. Oil production statistics are listed in Table 65.

JEFFERSON COUNTY

(Map Pl. 1)

No production reported from the established fields. Miscellaneous oil production estimated at 2,000 barrels. One dry wildcat test drilled during the year.

Developments during 1956.—The McLouth field is being utilized for the storage of natural gas. No gas or oil production was reported from the county during 1956.

One dry wildcat was drilled in the county during 1956. W. S. Fees, Jr., and Garfield Richards drilled the rank test on the Jones



Depth to Depth to Surface Total top of Mississip-Surface top of elevation, Lans.-K.C., depth, Company and farm Location feet feet pian, feet feet C NW SE 2,395 3,904 4.526 5,025 H&H Drlg. Co. No. 1 Goebel 14-21-24W Jones, Shelburne & Farm-SWSWSW 4.496 4,573 2,533 3,917 er, Inc., et al. No. 1 Dumler 16-21-26W Aurora Gasoline Co. NW NW SW 2,369 4,110 4,709 4,820 No. 1 Tubbs "A" 26-23-21W SW SW SE 2,440 4.040 4,701 4,732 Petroleum, Inc. No. 1 Thresher 30-23-23W *Earl F. Wakefield NE NE SE 2,347 3.963 4.698 4,713 No. 1 Reed 16-23-24W No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used. farm in the SW1/4 SW1/4 NE1/4 sec. 19, T. 10 S., R. 20 E., in August.

TABLE 40.—Dry wildcat tests drilled in Hodgeman County during 1956

Tops reported from an elevation of 1,157 feet above sea level are: base of Oread limestone, 275; Kansas City group, 540; base of Kansas City, 880; "McLouth sand", 1,560; and Mississippian lime, 1,610 feet. Total depth reported was 1,760 feet. No shows of oil or gas were mentioned in the report on the test.

The location of the rank wildcat test is shown on Plate 1. Oil production is given in Table 65.

JEWELL COUNTY (Map Pl. 2)

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

Exploration during 1956.—For the first time since 1953, a wildcat test well has been drilled in Jwell County. Harry Mann drilled the well on the Beard lease in sec. 10, T. 5 S., R. 10 W., from a rotary bushing elevation of 1,649 feet above sea level to a total depth of 2,715 feet. The well was completed in September and abandoned as a dry hole. No other information on this well has been reported. The location of the wildcat test is shown on Plate 2.

In 1952 Harry Mann drilled another well in the same section as the 1956 wildcat. This earlier test is located about 2½ miles from the new well, and it was drilled from a rotary bushing elevation of 1,636 feet above sea level to a total depth of 4,052 feet.



The tops of the following marker horizons were encountered: Topeka limestone at a depth of 2,380 feet; Lansing strata, 2,691; Mississippian rocks, 3,368; Viola dolomite, 3,690; Simpson group, 3,900; and Arbuckle dolomite, 3,990. Two drill-stem tests proved unsuccessful in finding commercial quantities of oil or gas.

JOHNSON COUNTY (Map Pl. 1)

The 1956 production from 3 areas in 3 fields: oil 8,113 barrels, gas, 51,253 thousand cubic feet. Wells drilled in 1956: oil 7, dry 1, total 8.

Developments during 1956.—The reported oil production in Johnson County in 1956 was almost double that in 1955, when 4.328 barrels was reported.

Oil production statistics are listed in Table 65, gas in Table 66. Most of the oil production in Johnson County comes from the Gardner field in the southeastern part of the county. Locations of areas from which oil was produced in 1956 are shown on Plate 1.

KEARNY COUNTY (Map Pl. 3)

The 1956 production from 2 fields: oil 45,616 barrels, gas (all from the Hugoton Gas Area) 63,479,195 thousand cubic feet. Wells drilled in 1956: oil 1, gas 26, dry 6, total 33 including 1 dry wildcat. Fields discovered 1.

Developments during 1956.—Drilling activity in the Kearny County portion of the **Hugoton Gas Area** resulted in the completion of 26 new gas wells concentrated in the west central part of the county. Gas production increased by more than 6 percent over the previous year's total. Oil production increased by more than 15 percent.

South Side, the county's second oil field, was named with the successful completion of the Helmerich & Payne No. 4 White "O" well in sec. 13, T. 26 S., R. 35 W. The well was given an initial potential of 108 barrels of oil per day from the Morrowan strata in June. Further development of the well in September revealed the first producing zone in the Mississippian rocks ever reported in the county. Additional data on this discovery well are given in



Table 6, and data on the new producing horizon are given in Table 7.

Other exploratory drilling in the county was restricted to the completion of a single wildcat test on the Johnson lease in the cen. SE¼ SW¼ sec. 18, T. 25 S., R. 36 W. The well was drilled by W. B. Osborn in August from a rotary bushing elevation of 3,045 feet above sea level to a total depth of 6,092 feet. Some important tops picked were from the following depths: Heebner shale, 3,440; Lansing group, 3,625; Morrowan rocks, 4,620; eroded Mississippian strata, 4,780; Viola limestone, 5,490; and Arbuckle dolomite, 5,594 feet. No shows of oil or gas were reported. The location of this wildcat test is shown on Plate 3.

Of the 26 new gas wells drilled in the county during the year, the Graham-Michaelis Drilling Company No. 1 Weber "A" well was assigned the highest initial potential, being rated at more than 13 million cubic feet of gas per day. The locations of all the new gas wells in Kearny County are shown on Plate 3 along with the areas of oil and gas production. Oil production statistics are listed in Table 65, and gas statistics are listed in Table 66.

KINGMAN COUNTY (Map Pl. 2)

The 1956 production from 25 fields: oil 1,987,775 barrels, gas 6,860,788 thousand cubic feet. Wells drilled in 1956: oil 59, gas 22, oil and gas 8, dry 51, repressuring or salt-water disposal 2, total 142 including 20 dry wildcats. Reworked wells: oil 1, dry 2. Fields discovered 3, combined 2, abandoned 1.

Developments during 1956.—An increase in the drilling activity within Kingman County was clearly reflected in the production reported during the year, as both oil and gas recorded an increase of more than 28 percent.

Exploratory drilling programs resulted in the naming of three new fields. The Pryor & Tracy and D & M Drilling Company, Inc., No. 1 Goetz well in sec. 29, T. 29 S., R. 9 W., was completed as a Viola gas producer in June and designated as the discovery well for the Goetz field. The Settle field, named in October upon the completion of the George Siegrist No. 1 Settle well in sec. 18, T. 29 S., R. 7 W., was assigned an initial potential of 2,400,000 cubic feet of gas per day from the Mississippian strata. A third field, Georgia Spur, was named when the Aurora Gasoline Company completed the No. 1 Greenleaf well in sec. 7, T. 28 S., R.



6 W., but because the well failed to produce commercial quantities of oil or gas, the field was abandoned. More information on these discovery wells is given in Table 6.

Developmental drilling within the **Basil** and **Gilchrist** fields resulted in the discovery of producing zones in the Mississippian rocks. Complete data on the discovery wells of these new zones are given in Table 7.

Action by the Nomenclature Committee in January combined the Grabs South field with Grabs. A second combination was made in August when the Bertholf, Rago, Rochester, Spivey, Spivey Northwest, Spivey West, Sunnyview, and Zenda fields in Kingman County were combined with the Grabs, Grabs Northwest, and Spivey Southeast fields in Harper County. The combination was designated as the Spivey-Grabs oil and gas field. This new field includes more than 11,000 acres, and drilling activity within the field during the year resulted in 29 new oil wells, 13 new gas wells, 7 new oil and gas wells, and 15 dry holes.

Nearly all of the 20 dry wildcats drilled in the county during 1956 penetrated the Arbuckle dolomite, and 14 reported shows of oil or gas. The tops of some important marker beds encountered in drilling these exploratory holes are given in Table 41. The locations of the dry wildcat wells and of the oil and gas producing areas are shown on Plate 2. Oil production data are listed in Table 65, and gas statistics are given in Table 66. Data on secondary recovery are given in Table 1.

KIOWA COUNTY (Map Pl. 2)

The 1956 production from 14 fields: oil 163,466 barrels, gas 2,397,-523 thousand cubic feet. Wells drilled in 1956: oil 18, gas 9, dry 27, total 54 including 17 dry wildcats. Fields discovered 4.

Developments during 1956.—Oil production in Kiowa County more than doubled in 1956, and gas production increased to a record high of 2,397,523 thousand cubic feet of gas.

Exploratory drilling resulted in the discovery of 4 new pools. The Greensburg field was named upon the completion of the Anschutz Drilling Company, Inc., No. 1 Steward well in sec. 35, T. 27 S., R. 18 W., and the Greenburg Northeast field was named when the Aurora Gasoline Company brought in the No.



TABLE 41.—Dry wildcat tests drilled in Kingman County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississ p- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Anschutz Drlg. Co., Inc., et al. No. 1 Dondelinger	SE SE SW 35-27-7W	1,526	3,144	3,869	4,363	4,395
*Coop. Ref. Assn., et al. No. 1 Valdois	SE SE SW 9-27-9W	1,724	3,425	3,981	4,416	4,440
The El Dorado Ref. Co. No. 1 Scheuman	SW NE SW 10-28-6W	1,491	3,074	3,852	4,384	4,409
Youngblood, et al. No. 1 McKenna	NE NE SE 4-28-8W	1,578	3,325	3,974	4,472	4,497
Petroleum, Inc. No. 1 McKenna "A"	NW NW NE 28-28-8W	1,634	3,417	4,094	4,567	4,600
Bachus Oil Co., et al. No. 1 Hay	E½ NE NW 11-28-9W	1,624	3,406	4,014	4,490	4,520
Barbara Oil Co. No. 1 Doane	NW NW NW 23-28-10W	1,695	3,570	4,108	4,557	4,581
Barbara Oil Co. No. 2 Doane	NE NE NE 23-28-10W	1,702	3,561	4,100	4,560	4,581
Aurora Gasoline Co. No. 1 Bolinger	SE SE SW 3-29-5W	1,383	3,138	3,906	4,467	4,500
Armer Drlg. Co., Inc. No. 1 Maple	NE NE NE 30-29-6W	1,551	3,312	4,145	4,646	4,684
Rupp-Ferguson Oil Co. No. 1 Campbell	SW SE SE 33-29-7W	1,488	3,320	4,109	*******	4,227
Graham-Michaelis Drlg. Co., et al. No. 1 Oeding	C SE SW 7-29-8W	1,685	3,524	4,195	4,496**	4,526
*Petroleum, Inc. No. 1 Duckworth	SW SW SW 26-29-8W	1,612	3,461	4,207		4,302
Wilcox Oil Co. No. 1 DeWeese	C NE NW 36-29-7W	1,485	3,265	4,087		4,245
*Rupp-Ferguson Oil Co. No. 1 Cline	NE NE NE 35-29-8W	1,561	3,402	4,154	4,527**	4,575
The Ben F. Brack Oil Co. No. 1 Goetz	NE NE SW 27-29-9W	1,595	3,495	4,148	4,653	4,682
Aylward Drlg. Co. No. 1 Spade	SE SE NE 27-29-10W	1,735	3,707	4,307	4,754	4,774
Gulf Oil Corp. No. 1 Kath. Piel	NW SW NE 19-30-9W	1,740	3,715	4,412	4,870	4,900
*Welch & O.sson Drlg. Co., Inc. No. 1 Liebl	NE NE SW 3-30-10W	1,698	3,722	4,287	4,587**	4,685

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

1 Campbell well in sec. 17, T. 27 S., R. 17 W. The Greensburg field reported gas production from "Kinderhook" strata, and the Greensburg Northeast field reported gas from Mississippian rocks. The Kewanee Oil Company drilled the discovery well for the Hardy field in sec. 23, T. 28 S., R. 18 W., and the Gramehart-

^{**} Depth to the top of the Viola, feet.

Miller Oil Company completed the discovery well of the **Kane** field in sec. 12, T. 30 S., R. 18 W. Both the **Hardy** field and the **Kane** field reported gas production from Mississippian rocks. Additional information on the discovery wells of these new fields is given in Table 6.

A second producing zone was discovered in the **Wellsford** field when the El Dorado Refining Company completed the No. 1 Kinney well in sec. 16, T. 20 S., R. 16 W. The well was designated as a Mississippian producer and assigned an initial potential of 6,160,000 cubic feet of gas per day. More information on this zone discovery well is given in Table 7.

A total of 17 dry wildcat tests was drilled in the county during the year, 4 of which penetrated the Arbuckle dolomite. Only 2 of the tests failed to report shows of oil or gas. Complete data on the dry wildcat wells are given in Table 42. The locations of these test wells and of oil and gas producing areas are shown on Plate 2. Oil production statistics are listed in Table 65, and gas statistics are listed in Table 66.

LABETTE COUNTY

(Map Pl. 1)

The 1956 production from 22 areas in 10 fields: oil 100,145 barrels, including an estimated 35,600 barrels from secondary recovery projects, gas 90,632 thousand cubic feet. Wells drilled in 1956 (estimated): oil 22, dry 19, repressuring 16, total 57.

Developments during 1956.—Oil production in Labette County in 1956 was somewhat more than in 1955, when 98,077 barrels was reported. It is estimated that 57 wells were drilled during 1956, which number is to be compared to an estimated 61 during the previous year.

Data on oil production in the various fields are listed in Table 65, gas in Table 66. Water-flooding statistics are listed in Table 1. Locations of areas from which oil was produced in 1956 are shown on Plate 1.

LANE COUNTY

(Map Pl. 3)

The 1956 production from 1 pool: No production reported. Wells drilled during 1956: 1 dry wildcat.



TABLE 42.—Dry wildcat tests drilled in Kiowa County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississ p- pian, feet	Total depth, feet
Jones, Shelburne & Farmer, Inc., et al. No. 1 Fruit	SW SW SW 28-27-16W	2,113	4,113	4,621	5,005
Murfin Drlg. Co., et al. No. 1 W. P. Thompson	SW SW SW 35-27-17W	2,144	4,145	4,670	4,815
Mull Drlg. Co., Inc. No. 1 Miller	NE NE SE 11-27-19W	2,243	4,213	4,796	4,932
Mull Drlg. Co., Inc. No. 1 Barnes	NE SE SE 16-27-19W	2,258	4,190	4,784	4,869
Graham-Michaelis Drlg. Co. No. 1 Woods	C SW NW 27-27-19W	2,264	4,207	4,805	4,905
Schafer Drlg. Co. No. 1 Bank	SE SE SE 12-28-16W	2,114	4,144	4,633	4,996
E. H. Adair Oil Co. No. 1 Lemon	NW NE SW 28-28-19W	2,318	4,344	4,950	4,970
Davidor & Davidor No. 1 Sherer	NE NE NE 23-28-20W	2,298	4,304	4,934	5,026
Aurora Gasoline Co. No. 1 Millar	NW NW SE 19-29-16W	2,044	4,152	4,707	4,802
Rupp-Ferguson Oil Co. No. 1 Millar	SW SW SE 29-29-16W	1,897	4,023	4,568	4,758
Gramehart-Miller Oil Co. No. 1 Douglas	NE NE NE 36-29-16W	1,978	4,098	4,600	4,755
Rupp-Ferguson Oil Co. No. 1 Morford	SW NW SW 5-29-17W	2,176	4,256	4,840	5,2 80
Barbara Oil Co. No. 1 Robbins	SW SW NE 23-29-17W	1,944	4,057	4,614	4,767
Aurora Gasoline Co. No. 1 Jenkins	NW NW SW 30-29-17W	2,068	4,225	4,838	4,940
Rupp-Ferguson Oil Co. No. 1 Klug	NE NE SW 11-29-18W	2,264	4,334	4,950	5,017
E. H. Adair Oil Co. No. 1 Collingwood	NW NW NW 1-29-19W	2,319	4,359	4,974	5,570
Bachus Oil Co., et al. No. 1 Wykle	SW SW SE 33-29-19W	2,320	4,487	5,120	5,225

The county's only oil field, North Fork, failed to report any production during 1956. The cumulative production for this field and location data are given in Table 65.

Exploratory drilling in the county resulted in the drilling of a single wildcat test. Earl F. Wakefield completed the well on the Hartman lease in the NE¼ NE¼ NE¼ sec. 26, T. 17 S., R. 28 W., in October. It was drilled from a rotary bushing elevation of 2,743 feet above sea level to a total depth of 4,775 feet. The top of the Kansas City rocks was penetrated at a depth of 4,017 feet, and the Mississippian strata were penetrated at a depth of 4,625

feet. No tests were run, and no shows of oil or gas were reported. The location of this wildcat test is shown on Plate 3.

LEAVENWORTH COUNTY (Map Pl. 1)

The 1956 production from 7 wells in the Banker's Life field: oil 4,504 barrels; gas from the Roberts-Maywood field, 16,355 thousand cubic feet. Two wildcat tests drilled in 1956.

Developments during 1956.—No oil production was reported from Leavenworth County in 1955, but in 1956 the Banker's Life field reported 4,504 barrels. Gas production was reported from the Roberts-Maywood field in eastern Leavenworth County.

One of the rank wildcat tests, the Milton McGreevy No. 1 McGreevy well, was drilled in June in the SW¼ SW¼ NE¼ sec. 24, T. 10 S., R. 22 E. The well was drilled from an elevation of 961 feet above sea level, and the following tops were reported by Wallace Lee: Mississippian strata, 1,129; Chattanooga shale, 1,493; Devonian, 1,529; Viola limestone, 1,660; St. Peter sandstone, 1,774; Arbuckle dolomite, 1,828; Reagan sandstone, 2,615; "granite wash", 2,663; and Precambrian, 2,692 feet. No shows of oil or gas were reported, and the test was taken to a total depth of 2,698 feet before abandonment.

In August W. S. Fees, Jr., and Garfield Richards drilled the second rank wildcat in the county in 1956. Their No. 1 Hurlburt well is located in the cen. SW¼ NW¼ sec. 26, T. 10 S., R. 20 E. Reported elevation was 1,092 feet above sea level. Significant marker beds encountered in drilling the test were: base of Oread limestone, 110; Kansas City group, 378; base of Kansas City, 715; McLouth sand, 1,405; and Mississippian rocks, 1,434 feet. No testing or shows were reported.

The location of the oil field and the 2 rank wildcat tests are shown on Plate 1. Oil production is given in Table 65, gas in Table 66.

LINCOLN COUNTY (Map Pl. 2)

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

Exploration during 1956.—Drilling activity resulted in the completion of 2 rank dry wildcat wells in the northeast corner



of the county. The Graham Development Syndicate No. 1 Rathbun well was drilled in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 35, T. 10 S., R. 7 W., from a rotary bushing elevation of 1,451 feet above sea level to a total depth of 3,919 feet. The tops of some important marker beds were encountered at these depths: Heebner shale, 2,399; Lansing group, 2,502; Marmaton rocks, 2,862; Mississippian rocks, 3,170; Viola limestone, 3,613; and Arbuckle dolomite, 3,872 feet. The second wildcat test was drilled by the Oil Capital Corporation and the Frankfort Oil Company on the Shilling lease in the SW1/4 SW1/4 NE1/4 sec. 1, T. 10 S., R. 6 W. The following tops and their depths were reported: Heebner shale, 2,410; Lansing group, 2,569; Mississippian rocks, 3,215; Viola limestone, 3,735; and Arbuckle dolomite, 4,011 feet. The well was drilled from a rotary bushing elevation of 1,533 feet above sea level to a total depth of 4,053 feet. A single drill-stem test was run at a depth of 3,222 feet to 3,234 feet, but no shows of oil or gas were reported. The locations of these dry wildcat wells are shown on Plate 2.

LINN COUNTY (Map Pl. 1)

The 1956 production from 18 areas in 6 fields: oil 89,286 barrels, including an estimated 63,663 barrels from secondary recovery projects, gas (estimated) 12,874 thousand cubic feet. Wells drilled in 1956 (estimated): oil 29, dry 25, repressuring 19, total 73.

Developments during 1956.—Linn County oil production decreased in 1956 over that of 1955, when 94,367 barrels was reported. An estimated 1,874 thousand cubic feet of gas was reported from the LaCygne-Cadmus field. Estimated drilling activity was somewhat more than in the previous year, when a total of 43 wells was reported.

Oil production in the several Linn County areas is listed in Table 65, gas in Table 66. Water-flooding data are listed in Table 1. Locations of areas from which oil was produced in 1956 are shown on Plate 1.

(Map Pl. 3)

Exploratory test holes have been drilled in Logan County in the past, but as yet no commercially productive pool has been discovered.



Exploration during 1956.—In April the Buick Drilling Company et al. completed a well on the Bertrand lease in sec. 3, T. 11 S., R. 32 W. Perforating the Marmaton rocks resulted in a rated potential of 4 barrels of oil per day, and the Nomenclature Committee subsequently named it as the discovery well of the **Oakley** field. However, no commercial production has been reported from this well. Data on the discovery well are given in Table 6.

Other exploratory drilling within the county resulted in the completion of 3 rank dry wildcat wells. The No. 1 Swart well in the NW1/4 NW1/4 NW1/4 sec. 12, T. 11 S., R. 32 W., was drilled by William Gruenerwald from a rotary bushing elevation of 3,048 feet above sea level to a total depth of 4,765 feet. The top of the Lansing group was penetrated at a depth of 4,060 feet, and the top of the Mississippian rocks was reached at a depth of 4,653 feet. William Gruenerwald et al. drilled a test hole on the Muehlenkamp lease in the SW¼ SW¼ NW¼ sec. 26, T. 11 S., R. 32 W., in January. The tops of some important marker beds were encountered at these depths: Heebner shale, 4,021; Lansing group, 4,066; Pennsylvanian basal conglomerate, 4,630; and the Mississippian rocks, 4,670 feet. The well was drilled from a rotary bushing elevation of 3,026 feet above sea level to a total depth of 4,772 feet. A third dry wildcat was completed by the Wycoff Brothers Oil Company on the Uhland lease in the cen. NE¼ NE¼ SE¼ sec. 8, T. 14 S., R. 35 W. Drilled from a rotary bushing elevation of 3,223 feet above sea level to a total depth of 4,935 feet, the well penetrated the top of the Lansing group at a depth of 4,066 feet and reached the Mississippian strata at a depth of 4,908 feet. Drill-stem tests were run on all 3 of these test wells, but no shows of oil or gas were reported. The locations of these wildcat wells are shown on Plate 3.

LYON COUNTY (Map Pl. 1)

The 1956 production from 8 areas in 8 fields: oil 349,279 barrels, including an estimated 126,957 barrels from secondary recovery projects. Wells drilled in 1956 (reported): oil 12, dry 12, total 24 including 7 dry wildcats. Fields combined 1.

Developments during 1956.—Oil production in Lyon County during 1956 decreased from the previous year, when 415,762 bar-



rels was reported. Reported number of wells drilled in the county declined to 24 from 51 reported in 1955. Estimated production from secondary recovery projects accounts for more than one-third of the oil production from Lyon County.

Seven rank wildcat tests were drilled in Lyon County during 1956. No significant shows of oil were reported from the testing in these holes. Data on the surface elevations of the holes and tops of marker beds encountered in drilling are given in Table 43.

During the year the **Atyeo** field (Chase, Greenwood, and Lyon Counties) was combined with the **Pixlee** field (Greenwood County) and is now designated **Atyeo-Pixlee**.

Two oil wells were drilled in the **Bradfield** field, 9 oil wells and 5 dry holes in the **Fankhouser** field, and 1 oil well in the **Ly-Green** field during 1956.

Oil production statistics for the Lyon County fields are listed in Table 65. Locations of fields from which oil was produced in 1956 and of dry wildcat wells drilled are shown on Plate 1. Secondary recovery data are listed in Table 1. Estimated secondary recovery in Lyon County includes oil production from the Ohio Oil Company's communitized flood in both Chase and Lyon Counties.

TABLE 43.—Dry wildcat tests drilled in Lyon County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of Lansing, feet	Depth to top of Mississip- pian, feet	Depth to top of Viola, feet	Total depth, feet
*George F. Johnston, Jr. No. 1 Venning	SW SW SE 32-15-10E	1,395	1,518	2,566	3,166	3,360
*R. J. Wixson Drlg. Co. No. 1 Taylor	SE SE NE 12-17-11E	1,244	1,135	2,160	2,755	2,94 8
*R. J. Wixson Drlg. Co. No. 1 Downing	NE NW NW 10-18-10E	1,150	1,195	2,230	2,742	2,94 0
Cities Service Oil Co. No. 1 Baldwin	SE SE SE 11-19-10E	1,125	1,106	2,155	2,598	2, 801
*Saturn Oil & Gas No. 1 Swigert	NE NE SE 31-19-10E	1,240	1,288	2,314	2,775	2,925
Bird-Hanley-Sheedy, et al. No. 1 Rees	Cen. SE SE 8-20-10E	1,364	1,384	2,406	•••••	2,467
*F. E. Lockhart-Geo. W. Waite No. 1 Wagner	NW SW NE 35-20-10E	1,348	1,270	2,307	2,710	2, 916

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



McPHERSON COUNTY (Map Pl. 2)

The 1956 production from 38 fields: oil 3,967,525 barrels, gas 375,-280 thousand cubic feet. Wells drilled in 1956: oil 78, gas 1, oil and gas 1, dry 64, repressuring or salt-water disposal 3, total 147 including 22 dry wildcats. Reworked wells: oil 2, dry wildcats 1. Fields discovered 2, combined 2.

Developments during 1956.—Although oil production in Mc-Pherson County declined about 10 percent, gas production reached a new high of 375,280 cubic feet. The number of new wells and dry holes completed decreased by only 2 in 1956. Exploratory programs resulted in the discovery of 2 new oil pools.

The Time Petroleum Company No. 1 Waltner well in sec. 36, T. 21 S., R. 3 W., was named the discovery well of the Harmac East field upon its completion in August. The "Hunton" rocks were reported as the producing zone. The Greenland Drilling Company brought in the No. 1 Johnson well in sec. 28, T. 18 S., R. 1 W., and when production was reported in May, it was designated as the discovery well of the Round Hill field. Additional data on these discovery wells are given in Table 6.

Developmental drilling in the **Johnson South** field discovered a producing zone in the Simpson rocks. The Bob Jones No. 1 Krehbiel well in sec. 11, T. 20 S., R. 3 W., reported Simpson production with a daily potential of 25 barrels of oil. More information on this zone discovery well is listed in Table 7.

Action by the Nomenclature Committee during the year resulted in two combinations within the county. The Paden South field was combined with Paden, and the Roxbury Southeast field was combined with Roxbury South.

All the gas produced in McPherson County during the year was produced from the **Ritz-Canton** field, which also reported the most active drilling program. A total of 36 oil wells, 1 gas well, 1 oil and gas well, 1 reworked well, and 5 dry holes was drilled within the field. Oil production amounted to 1,470,112 barrels.

Of the 22 dry wildcats drilled during the year 2 reported shows of oil, and 1 reported a show of gas. Specific data on the elevations and total depths of the wells are given in Table 44. The locations of these wildcat tests and of the areas of oil and gas produc-



tion are shown on Plate 2. Oil production statistics are listed in Table 65, and gas statistics are listed in Table 66. Data on secondary recovery are given in Table 1.

MARION COUNTY (Map Pl. 1)

The 1956 production from 34 areas in 32 fields: oil 1,398,229 barrels, gas 134,289 thousand cubic feet. Wells drilled in 1956: oil 168, dry 93, salt-water disposal 9, total 270 including 41 dry wildcats. Fields discovered 7, combined 1.

Developments during 1956.—Oil production from the various Marion County fields was considerably greater in 1956 than in 1955, when 909,605 barrels was reported. Oil production from the old Lost Springs field, which increased by more than 50,000 barrels, production from the Unger field (1955 discovery), and production from the new Unger Southwest field accounted for most of the increase in the county total over that reported the previous year.

Seven new oil fields were found in Marion County during 1956. They are the Antelope South, Antelope Southeast, Beauty, Beauty South, Doyle Creek, Ratzlaff, and Unger Southwest. Oil production is from the "Hunton" limestone in the Doyle Creek and Unger Southwest fields, and from the Viola limestone in the Ratzlaff field. The Mississippian strata constitute the producing zone in the other new fields. The discovery well of the Beauty South field was carried on the scout reports as dry and abandoned. Data on the drilling companies, tops to producing zones, thicknesses of producing zones, completion zones, completion dates, and initial production potentials on the discovery wells of the new fields are given in Table 6.

Reported drilling activity in Marion County in 1956 was double that of 1955. The largest amount of drilling was done in the new **Unger Southwest** field, where 67 oil wells and 17 dry holes were completed. The new field has produced 273,518 barrels of oil since its discovery in January 1956. Forty-three extension oil wells, 6 dry holes, and 4 salt-water disposal wells were completed in the **Lost Springs** (Mississippian) field. The **Beauty** field, new in 1956, had 17 oil wells, 1 dry hole, and 1 salt-water disposal well drilled within its boundary in 1956. The **Unger** field drilling program added 15 oil wells, 7 dry holes, and 4 salt-water disposal wells.



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Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet		Total depth, feet
Anschutz Drlg. Co., Inc. No. 1 Malm	NE NE SE 36-17-3W	1,461	2,364	3,046	3,722	3,772
Oil Capitol Corp. No. 1 Minns	NE NE NE 31-18-4W	1,439	2,532	3,172	3,809	3,863
Home-Stake Oil & Gas Co. No. 1 Sellberg	NE NE NE 35-18-4W	1,510	2,475	3,115	3,737	3,768
K & E Drlg., Inc. No. 1 Smith	NE NE NW 8-18-5W	1,641	2,771	3,418	3,927	3,971
*Rex & Morris Drlg. Co., et al. No. 1 Reikowsky	NE NE NW 34-19-1W	1,573	2,350	2,911	3,442**	3,472
Natural Gas & Oil Corp. No. 1 Quantius	NE NE SW 31-19-3W	1,500	2,506	3,167	3,844	3,870
*Anschutz Drlg. Co., Inc. No. 1 Haberlein	NE NE SE 23-19-4W	1,495	2,528	3,179	3,847	3,877
Roach & Lichty Drlg. Co., Inc., et al. No. 1 Durland	NE NE SE 5-19-5W	1,577	2,739	3,398	3,767**	3,845
*Donald T. Ingling, et al. No. 1 Nickkell	NE NE NE 27-20-1W	1,536	2,342	2,935	•••••	2,980
*Glickman Oil Co. No. 1 Otte	SW SW NW 32-20-1W	1,531	2,353	2,982		3,055
Sierra Petro., et al. No. 1 Anderson	NW NW SW 9-20-5W	1,557	2,754	3,407	•	3,450
*Osage Oil & Gas Co., Inc. No. 1 Koelsch	NW NW NE 18-19-5W	1,676	2,872	3,475	•	3,500
Bedell-Catt Drlg. Co., Inc., et al. No. 1 Hiebert	NE NE NE 25-21-1W	1,507	2,325	2,948	3,463**	3,549
*Geo. F. Johnston, Jr. No. 1 Rodgers	NW SE SE 26-21-1W	1,508	2,353	2,974	3,470**	3,535
*E. K. Carey Drlg. Co., Inc. No. 1 Stuckey	SW SE SW 26-21-1W	1,501	2,346	2,961	3,473**	3,525
*Geo. F. Johnston, Jr. No. 1 Rodgers "A"	SE NW NE 36-21-1W	1,501	2,324	2,951	••••••	3,385
*J. P. Gaty No. 1 Scott	NW NW SW 2-21-2W	1,506	2,307	2,956	3,416**	3,475
*Glen Schroff, et al. No. 1 Galle	SW NW SW 11-21-2W	1,499	2,307	2,965	3,525	3,541
*Donald T. Ingling, et al. No. 1 Regier	NE NE SE 11-21-2W	1,506	2,319	2,958		3,022
Barbara Oil Co. No. 1 Young	NE NE NE 26-21-2W	1,491	2,347	2,993	3,463**	3,510
*Brunson Prod. & Exp., Inc. No. 1 Pauls	NE NE SE 7-21-3W	1,470	2,560	3,253	3,772**	3,790
Anschutz Drlg. Co., Inc. No. 1 Flickner	NW NW SW 13-21-3W	1,470	2,433	3,134	3,727	3,752

^{*} 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.

The success of the operators finding new fields during 1956 in Marion County initiated an expanded exploratory activity by the oil industry. Forty-one rank wildcat tests were drilled during 1956. Only 6 of the tests reported shows of oil. Data on the locations and tops to significant marker beds encountered in drilling these important holes are given in Table 45.

During the year the **Lost Springs East** field was combined with the **Lost Springs** field.

Oil production statistics for the various Marion County fields are listed in Table 65. Gas production is listed in Table 66. Locations of areas from which oil was produced and of the dry wildcat wells drilled in 1956 are shown on Plate 1.

Table 45.—Dry wildcat tests drilled in Marion County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C. feet	Depth to top of Mississip- pian, feet	Depth to top of Viola, feet	Total depth feet
*H. B. Ratzlaff No. 1 Dienes	App. NW SE NW 1-17-3E	1,439	1,863	2,400		2,428
*Lance C. Hill No. 1 Fike	NE NE SW 2-17-3E	1,416	1,852	2,395	••••••	2,466
*Lance C. Hill No. 1 Bruns	SE SE SE 10-17-3E	1,463	1,922	2,492	2,947	2,988
*Donald T. Ingling No. 1 Heiser	SW SW NE 15-17-3E	1,466	1,855	2,482	•	2,522
*Donald T. Ingling No. 1 Riffel	SE SE NE 16-17-3E	1,498	1,888	2,520		2,56 0
*Harold E. Kramer No. 1 Skully	NW NW SE 30-17-3E	1,416	1,882	2,488	3,050	3,200
*L. C. Smitherman Drlg. Co. No. 1 Christianson	SE SE SW 3-18-1E	1,428	•	2,661	3,119	3,300
*Anderson-Prichard Oil Corp. No. 1 Scully "F"	NE NE SW 11-18-1E	1,428	2,087	2,660	3,116	3,227
L. C. Smitherman Drlg. Co. No. 1 Oborny	SW SW NW 12-18-2E	1,436	3,156**	2,549	3,012	3,199
*L. C. Smitherman Drlg. Co. No. 1 Schlehuber	NW NW SW 13-18-1E	1,435		2,665	3,116	3,300
*Anderson-Prichard Oil Corp. No. 1 Scully "H"	NE NW SE 30-18-3E	1,388	1,920	2,492	2,899	2,980
*Augusta Oil Co. No. 1 Kaiser	NE NE SW 12-18-4E	1,446		2,324		2,350
*Beaumont Petro. Co. No. 1 Czarnowsky	SE SW NW 8-18-5E	1,479	1,732	2,107	2,556	2,577
*Augusta Oil Co. No. 1 Lindau	NW NE SW 19-18-5E	1,443	1,742	2,236	•••••	2,292
*Casebeer and Litan No. 1 E. Eitzen	SE NE SW 19-19-2E	1,471	3,106	2,699	3,151	3,322
*Charles Lamer Carlock No. 1 Propt-Stenzel	SE SE SW 10-19-3E	1,395	1,880	2,442	2,795	2,883

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*Rex & Morris Drlg. Co., et al. No. 1 Kreutziger	SE SW NE 33-19-3E	1,366	1,840	2,398	2,715	2,818
*Allen Oldham No. 1 Crary	SW SW SE 34-19-3E	1,328	1,799	2,348	2,648	2,806
*Slusser Drlg. Co. No. 1 Phillips	NE NE NW 23-19-4E			2,325	••••••	2,385
*Augusta Oil Co. No. 1 Jewett	SW NE NW 9-19-5E				2,535	2,555
*Branine-Holl No. 1 Stika	SE SW NW 32-19-5E	1,452	1,752	2,250	2,531	2,536
*Anderson-Prichard Oil Corp. No. 1 Toews	SE NW NW 1-20-2E	1,397	1,955	2,539	2,899	3,056
*Mull Drlg. Co., Inc. No. 1 Hiebert	SE SE NW 33-20-2E	1,443	2,066	2,632	2,966	3,125
Cities Service Oil Co. No. 1 Loewen "D"	SW SW SW 36-20-2E	1,429	2,029	2,599	2,911	2,994
*Stelbar Oil Corp., Inc. No. 1 Ehrlich	SW NE SE 2-20-3E	1,360	1,809	2,354	2,642	2,668
*Beaumont Petro. Co. No. 1 Lohrenz	SE NE SW 27-20-3E	1,412	1,916	2,467	` 2,799	2,836
*Sunflower Drlg. Co. No. 1 Flunk	NE NW NE 30-20-3E	1,375	1,959	2,506	2,873	3,030
E. H. Adair Oil Co. No. 1 Ely	NE NE NW 36-20-3E	1,372	1,851	2,404	2,655	2,729
Herndon Drlg. Co. No. 1 Skinner	NW SW SW 4-20-4E	1,360	1,753	2,272	2,540	2,715
*Daetwiler, et al. No. 1 Conyers	NE SW SW 18-20-4E	1,331	1,776	2,324		2,583
Herndon Drlg. Co. No. 1 Elizabeth Hett	NW NW SW 23-20-4E	1,329	1,703	2,218	2,517	2,716
White & Ellis Drlg. Co. No. 1 Lalouette	SE SE NE 3-20-5E	1,401	1,635		2,332	2,355
*Beaumont Petro. Co. No. 1 Tibbens	SE NE NE 30-20-5E	1,326	1,645	2,165	2,457	2,459
*Dunne & Strait Drlg. Co. No. 1 Thiesen	SE SE NW 23-21-1E	1,541	2,290	2,926	3,362	3,486
Time Petro. Co. No. 1 Voth	NW NW NE 24-21-1E	1,558	2,295	2,920	3,354	3,418
Bedell-Catt Drlg. Co., Inc. No. 1 Buller	NW NW SW 10-21-2E	1,460	2,122	2,768	3,136	3,292
*Anderson-Prichard Oil Corp. No. 1 T. Schmidt	SE SW NE 20-21-2E	1,512	3,332**	2,816	3,207	3,362
*A. D. Allison & Co., Inc. No. 1 Isaacs	NW NW NW 35-21-2E	1,467	2,097	2,799	3,126	3,135
*Francis M. Raymond No. 1 Davis "A"	SE SE NW 21-21-3E	1,433	1,972	2,593	2,948	2,983
*Beaumont Petro. Co. No. 1 McDonald	SE SE SE 23-21-3E	1,398	1,912	2,485		2,770
*Beaumont Petro. Co.	SE SE SW 24-22-3E	1,435	1,931	2,537		2,575

Oil and Gas Developments, 1956

24-22-3E

No. 1 Gregory

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^{*}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.

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 was drilled in 1956.

Exploration during 1956.—Late in 1956 the H & L Oil Company No. 1 Ringen well in the NE¼ NE¼ NW¼ sec. 19, T. 1 S., R. 9 E., was abandoned at a total depth of 2,116 feet. Sample tops are as follows: Topeka limestone, 700; Heebner shale, 860; Lansing group, 1,015; base of Kansas City, 1,460; Maquoketa shale, 1,620; Viola limestone, 1,685; Simpson group, 1,970; St. Peter, 2,040; "weathered granite", 2,110; and Precambrian, 2,115 feet. No shows of oil were reported. The location of the rank wildcat test is shown on Plate 1.

MEADE COUNTY (Map Pl. 3)

The 1956 production from 17 fields: oil 489,114 barrels, gas 7,386,-699 thousand cubic feet. Wells drilled in 1956: oil 18, gas 25, oil and gas 4, dry 15, total 62 including 5 dry wildcats. Reworked wells: oil 1, gas 1, dry 1. Fields discovered 6, combined 1.

Developments during 1956.—Oil production in Meade County increased by more than 5 percent during 1956, and gas production more than doubled the previous year's figure. Correspondingly, drilling activity showed an increase of more than 40 wells of all types.

The search for new oil and gas pools within the county resulted in the naming of 6 new fields, Angell, Fincham, Horace, Plains, Sanders, and Singley South. The Singley South field reported oil from Morrowan rocks. Complete data on the locations and names of the discovery wells, the tops of producing zones, the thicknesses of producing zones, and the amounts of the initial potentials are given in Table 6.

The Colorado Oil and Gas Corporation reported a new gas producing zone (Mississippian) in the Stevens field when the No. 9 Holmes well in sec. 35, T. 32 S., R. 30 W., was completed in October. A new zone (Mississippian) was discovered in the Bond field by the No. 1 Schell well in sec. 4, T. 34 S., R. 30 W., drilled by James Donoqhue in May. Additional information on these new zone discovery wells is given in Table 7.



Drilling activity within the **Stevens** field, the leading gas producer in the county, resulted in the completion of 10 oil wells, 8 gas wells of which 1 was a reworked well, and 1 dry hole. The 1956 gas production from the field raised the total cumulative production to more than 3 million cubic feet.

A total of 5 dry wildcat wells was drilled in the county during the year, and 3 of the tests reported shows of gas. The total depths, elevations, and tops of important marker beds encountered in drilling these wells are listed in Table 46. The locations of the wildcat tests and of the areas of oil and gas production are shown on Plate 3. Oil production statistics are given in Table 65 and gas production statistics in Table 66. Data on Columbian Fuel Company's repressuring project in the **Novinger** field are given in Table 1.

TABLE 46.—Dry wildcat tests drilled in Meade County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Total depth, feet
Aladdin Petro. Corp., et al. No. 1 Gano	C NW NW 10-31-30W	2,764	4,360	5,436	5,580
Colorado Oil & Gas Corp. No. 1 Bartel	NW SE NW 29-32-27W	2,492	4,578	5,626	5,940
James Donoghue No. 1 Fox	C SE SW 10-34-30W	2,681	4,608	5,930	6,100
Tennessee Gas Trans. Co. No. 1 Gowens	C NE NE 16-34-30W	2,699	4,608	5,931	6,100
L. H. Smith No. 1 Meyers	C NW NW 18-35-27W	2,354		6,018*	6,553

^{*} Depth to the top of the Morrowan, feet.

MIAMI COUNTY (Map Pl. 1)

The 1956 production from 35 areas in 5 fields: oil 674,580 barrels, including an estimated 448,771 barrels from secondary recovery projects, gas 30,528 thousand cubic feet. Wells drilled in 1956 (estimated); oil 148, gas 2, dry 60, repressuring 75, total 285.

Developments during 1956.—Reported oil production in Miami County was somewhat more than that of 1955, when 676,726

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barrels was reported. It was estimated that 285 wells were drilled in the county during 1956, compared to an estimated 255 the previous year.

Water-flooding activity in Miami County was somewhat curtailed during 1956 by the shortage of water for repressuring. Nevertheless, about two-thirds of the oil production in the county is attributable to secondary recovery projects. Data on secondary recovery in Miami County are given in Table 1.

Oil production in the various Miami County areas is listed in Table 65, gas in Table 66. Plate 1 shows the locations of areas from which oil was produced in 1956.

MONTGOMERY COUNTY (Map Pl. 1)

The 1956 production from 55 areas in 10 fields: oil 748,019 barrels, including approximately 377,502 barrels from secondary recovery projects, gas 460,627 thousand cubic feet. Wells drilled in 1956 (estimated): oil 128, gas 3, dry 97, repressuring 92, total 320, including 3 dry wildcats.

Developments during 1956.—Montgomery County's reported oil production during 1956 was 748,019 barrels. In the previous annual oil and gas development report (Kansas Geological Survey Bulletin 122), the 1955 oil production from Montgomery County was erroneously reported as 1,097,661 barrels. Corrected total oil production from Montgomery County during 1955 is 833,449 barrels. Estimated drilling activity during 1956 in Montgomery County was 320 wells, compared to an estimated 497 the previous year.

Three rank wildcat tests were drilled during the year. Fru-Lichty drilled their No. 1 Buckhanan in the SE¼ SE¼ NW¼ sec. 10, T. 31 S., R. 14 E., in May to a total depth of 1,421 feet. Tops recorded are: "Oswego" lime (Fort Scott), 969; and Mississippian chat, 1,381 feet. The No. 1 O. S. Schwatkin, also drilled by Fru-Lichty, in the SE¼ SE¼ SE¼ sec. 22, T. 31 S., R. 14 E., was completed in June as a dry hole at a total depth of 1,473 feet. Marker beds found in drilling are: "Oswego" lime, 989; and Mississippian rocks, 1,399 feet. The Fru-Lichty No. 1 O. S. Schwatkin in the NE¼ NE¼ SE¼ sec. 27, T. 31 S., R. 14 E., found the top of the "Oswego" lime at 909 feet and the top of the Mississippian



strata at 1,413 feet. Total depth was reported as 1,469 feet. No shows of oil or gas were reported from the 3 test holes.

Oil production in the various Montgomery County fields in 1956 is listed in Table 65, gas in Table 66. Data on secondary recovery operations are listed in Table 1. Plate 1 shows the locations of the areas from which oil was produced in 1956 and the locations of the dry wildcat tests.

MORRIS COUNTY (Map Pl. 1)

The 1956 production from 6 fields: oil 268,689 barrels, gas 30,862 thousand cubic feet. Wells drilled in 1956 (reported): oil 26, dry 22, salt-water disposal 1, total 49 including 15 dry wildcats. Fields discovered 1, abandoned 1.

Developments during 1956.—The increase in oil production from 70,143 barrels in 1955 to 268,689 barrels in 1956 from Morris County is attributable to the successful extension wells in the John Creek field and the discovery of the new Comiskey Northeast field. Reported oil production from 31 wells in the John Creek field (discovered in 1953) was 229,123 barrels in 1956. Twenty-one of the John Creek field's producing wells were completed during 1956. The Comiskey Northeast (Viola limestone) field was opened in March by the Kuper Oil Company No. 1 Sam Teel well in the NW¼ NW¼ NW¼ sec. 24, T. 16 S., R. 9 E. An initial potential of 192 barrels of oil per day was assigned the producing zone found at a depth of 2,929 to 2,932 feet. To the end of 1956, 3 wells in the field had produced 15,539 barrels of oil. Additional data on the new field discovery well are found in Table 6.

Although 2 offset test wells were drilled near the discovery well of the Comiskey field (discovered in 1955), none were successful in finding commercial quantities of oil, and the field therefore was officially abandoned during 1956. No oil production had been reported from the field prior to abandonment. Reflecting the increased interest of oil operators in Morris County, the number of exploratory holes drilled increased from 4 in 1955 to 15 in 1956. Only 3 of the tests specifically reported shows of oil. Most of the tests in western Morris County were taken to the top of the Mississippian rocks in keeping with the known reservoir rocks in that area. The Viola limestone was the key zone tested in east-



ern Morris County. Data on the locations of the exploratory holes and the tops to important marker beds encountered in drilling are given in Table 47.

Oil production statistics for Morris County are listed in Table 65, gas in Table 66. Locations of areas from which oil was reported in 1956 and of dry wildcat tests are shown on Plate 1.

TABLE 47.—Dry wildcat tests drilled in Morris County during 1956

		·			
Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Total depth, feet
*Jess Cling, et al. No. 1 Tobaben	NW NW SW 14-14-5E	1,389	1,580	2,125	2,409
Skellv Oil Co. No. 1 Olson	App. C SE SW 19-14-8E	7 1,471	1,510	•••••	1,560
*Augusta Oil No. 1 Shoemaker	NW NW SE 17-15-5E	1,373	1,670**	2,209	2,235
*Earl F. Wakefield No. 1 Garzrow	SE SE NE 20-15-5E	1,380		2,1 30	2,140
Skelly Oil Co. No. 1 Blythe	C NE NE 27-15-7E	1,424	1,409	•••••	1,459
White & Ellis Drlg. Co. No. 1 Cogsgrove	NE NE SW 19-15-9E	1,451	1,667	2,570	3,402
Stanolind Oil & Gas Co. No. 1 Richardson	NW NW SE 21-16-7E	1,503	1,496	2,228***	2,265
E. H. Adair Oil Co. No. 1 White	SE SE SW 25-16-8E	1,274	1,484	2,430	3,150
*Wm. Gruenerwald No. 1 Bosch	SE SW NE 3-16-9E	1,410	1,605	2,519	3,201
*Ellet & Seaney No. 1 Furney	NE NE NE 18-16-9E	1,310	1,516	2,445	3,082
*A. B. Johnston No. 1 Ecklund	SE SE SW 3-17-5E	1,465		2,214	2,269
*Dunn & Strait Drlg. Co. No. ¹ Carlson	SW SW NE 33-17-5E	1,480		2,225	2,280
Stanolind Oil & Gas Co. No. 1 M. Barr	SW SW NE 35-17-6E	1,318	1,360	2,036***	2,070
Stanolind Oil & Gas Co. No. 1 Cobb	App. NW NW SE 18-17-7E		1,488	2,072***	2,125
Drolte & Kuper Oil Co. No. 1 Loy	C NW SW 28-17-9E	1,305	1,454	2,466	3,230

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

MORTON COUNTY

(Map Pl. 3)

The 1956 production from 8 fields: oil 345, 989 barrels, gas 73,484,-



^{**} Depth to the top of the Kansas City, feet.

^{***} Depth to the top of the Arbuckle, feet.

852 thousand cubic feet. Wells drilled in 1956: oil 29, gas 65, oil and gas 4, dry 16, total 114 including 1 dry wildcat.

Developments during 1956.—Although drilling activity in Morton County declined from the previous year, oil production more than doubled, and gas production increased about 22 percent. No new oil or gas pools were discovered during the year.

Reported production from the county's portion of the **Hugoton** Gas Area declined to 25,320,554 thousand cubic feet during the year. Drilling programs within the field resulted in the completion of 20 new gas wells and 4 dry holes. A more detailed discussion of the **Hugoton** Gas Area, including notes on the early history of the field, is given in the section on natural gas in the introduction. The locations of new gas wells within the **Hugoton** Gas Area and the Greenwood Gas Area are shown on Plate 3.

A single wildcat test was drilled in the county by the Panhandle Eastern Pipe Line Company on the Barker lease in the cen. NW¼ SE¼ sec. 15, T. 33 S., R. 41 W. Drilled from a rotary bushing elevation of 3,184 feet above sea level to a total depth of 5,460 feet, the well was completed in October as a dry hole, although several shows of gas were reported. The tops of some important marker beds encountered and their depths were: Lansing group, 3,626 feet; Cherokee rocks, 4,455 feet; Morrowan rocks, 4,835 feet; and Mississippian strata, 5,356 feet. The location of this wildcat well is shown on Plate 3.

Oil production data are listed in Table 65, and gas production data are listed in Table 66. The locations of oil and gas producing areas are shown on Plate 3.

NEMAHA COUNTY

(Map Pl. 1)

The 1956 production from 3 fields: 24,823 barrels. No new wells were reported.

Developments during 1956.—The 1956 oil production in Nemaha County was less than that of 1955, when 26,979 barrels was reported from 3 fields. Oil production in the Strahm, Strahm East, and Sabetha fields is given in Table 65. Locations of the field areas are shown on Plate 1.



NEOSHO COUNTY (Map Pl. 1)

The 1956 production from 34 areas in 8 fields: oil 638,149 barrels including an estimated 490,261 barrels from secondary recovery projects, gas (estimated) 236,964 thousand cubic feet. Wells drilled in 1956 (estimated): oil 163, gas 6, dry 46, repressuring 120, total 335 including 1 dry wildcat.

Developments during 1956.—Neosho County's oil production in 1956 was somewhat higher than in 1955, when 634,699 barrels was reported. Estimated gas production was slightly more during 1956.

Much of the new development was in the **Erie**, **Trent**, and **St. Paul-Walnut** fields. It is estimated that more than 120 new input wells for repressuring projects were drilled in Neosho County fields in 1956.

One shallow hole was reported on wildcat location, the Allen Van No. 1 Means in the SE¼ sec. 10, T. 28 S., R. 20 E. The hole was drilled in December to a total depth of 515 feet. No shows were reported.

Data on secondary recovery operations in Neosho County are listed in Table 1. Oil production statistics are listed in Table 65, gas in Table 66. Locations of areas from which oil was produced in 1956 and of the 1 dry wildcat are shown on Plate 1.

NESS COUNTY (Map Pl. 3)

The 1956 production from 12 fields: oil 485,642 barrels. Wells drilled in 1956: oil 27, dry 40, total 67 including 25 dry wildcats. Fields discovered 5.

Developments during 1956.—Production from Ness County increased by more than 35 percent during the year reflecting the discovery of 5 new oil fields. Developmental drilling within existing fields resulted in the completion of 21 new oil wells.

The **Brownell** field (Cherokee production) was named in May when the Welch & Olsson Drilling Company completed the No. 1 Walker well in sec. 23, T. 16 S., R. 22 W., and the Barnett Drilling Company, Inc., No. 1 Ward well in sec. 4, T. 19 S., R. 26 W., was designated as the discovery well of the **Cruce** field (Mississippian production) in May. The Stickle Drilling Company No. 1 Ryersee



well in sec. 35, T. 18 S., R. 21 W., was named the discovery well of the **Ryersee** field (Cherokee production) in June, and the **Schoharie** field (Marmaton production) was named in May upon the completion of the Anschutz Drilling Company, Inc., No. 1 Cooper well in sec. 22, T. 19 S., R. 23 W. The **Wellmanville** field was named in January when the Welch & Olsson Drilling Company No. 1 Moore well in sec. 34, T. 19 S., R. 21 W., was completed. Several barrels of oil were recovered through perforations in the Mississippian strata at a depth of 4,419 feet to 4,423 feet, but no commercial quantities have been reported. More data on the discovery wells of the county's new fields are listed in Table 6.

Developmental programs resulted in the discovery of new zones in 3 old producing fields. Wells drilled by the Magnolia Petroleum Company in the Aldrich Northeast field reported Marmaton production and shows of oil in the Pennsylvanian conglomerate. A Stickle Drilling Company well discovered Mississippian production in the Ryersee field. The locations and initial potentials of these new zone discovery wells are given in Table 7.

Exploratory drilling within the county resulted in the completion of 25 dry wildcat wells. Eight of the test wells penetrated the Arbuckle dolomite, 2 of which reported shows of gas and 1 reported a show of oil. More information on the wildcat tests is given in Table 48. The locations of these wells and of the areas of oil production are shown on Plate 3. Oil production statistics are listed in Table 65.

TABLE 48.—Dry wildcat tests drilled in Ness County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Total depth, feet
Welch & Olsson Drlg. Co. Inc., et al. No. 1 Elmore	NW NW SE 9-16-21W	2,311	3,735	4,280	4,307
Harms-Burt Drlg. Co., et al. No. 1 Kendall	NW NW NE 10-16-21W	2,337	3,756	4,267	4,301
*Harms-Burt Drlg. Co., et al. No. 2 Kendall	SW SE NW 10-16-21W	2,301	3,709	4,234	4,263
K & E Drlg., Inc., et al. No. 1 Snodgrass	NW NW NW 18-16-22W	2,445	3,848	4,450	4,466
Barnett Drlg., Inc. No. 1 Klitzke	NE NE NE 11-16-24W	2,451	3,852	4,461	4,554
The Ohio Oil Co. No. 1 Miller	Cen. SE NE 16-16-24W	2,533	3,917	4,526	4,626
Rooney-Siegfried- Thomas No. 1 Michaelis	SW SW SE 20-16-25W	2,587	3,901	4,491	4,575

Manhart, Millison & Beebe, et al. No. 1 Higgins	NE NE SE 14-17-21W	2,174	3,620	4,262**	4,291
Wm. Gruenerwald No. 1 Weeks	SW SW NE 10-17-22W	2,406	3,842	4,405	4,464
Bankoff Oil Co. No. 1 Brenner	NE NE SE 24-17-22W	2,257	3,747	4,305	4,355
*Hilton Drlg. Co., Inc. No. 1 Stutz	NE NE NW 7-17-25W	2,534	3,880	4,479	4,865
Gulf Oil Corp. No. 1 Keough	SW SE NW 4-18-21W	2,195	3,704	4,260	4,639
Sunray Mid-Cont. Oil Co. No. 1 Janke	SW SW SE 11-18-21W	2,196	3,685	4,238	4,620
Leben Drlg. Co. No. 1 Gaedy	SE SE SW 17-18-21W	2,194	3,704	4,307	4,357
Armer Drlg. Co., Inc. No. 1 Marshall	NE NE NE 22-18-21W	2,141	3,624	4,191	4,599
Welch & Olsson Drlg. Co., Inc. No. 1 Krug	NE NE SE 30-18-22W	2,224	3,747 •	4,333	4,385
Welch & Olsson Drlg. Co., No. 1 Leikam	28-18-24W	2,289	3,712	4,315	4,375
Aylward Drlg. Co. No. 1 Ward	SE SE NW 8-18-26W	2,517	3,848	4,467	4,575
Leben Drlg. Co., et al. No. 1 Antenen	NE NE NW 24-19-21W	2,195	3,745	4,321	4,371
Parker Petro. Co., Inc. No. 1 Petersillie	NE NE SE 31-19-21W	2,263	3,804	4,368	4,423
*Hilton Drlg. Co., Inc. No. 1 Schaben	NE NE NE 9-19-24W	2,300	3,737	4,346	4,430
*Hilton Drlg. Co., Inc. No. 1 S & S Ranch	SE SE NW 17-19-25W	2,556	3,945	4,578	5,000
Bennett & Roberts Drlg. Co. No. 1 Cline	SE SE NE 14-19-26W	2,590	3,943	4,547	4,649
*Francis Oil & Gas, Inc. No. 1 Brenner	NE NE NE 17-19-26W	2,576	3,895	4,521	4,575
Sun Oil Co. No. 1 J. E. Ficken	NE NE NE . 31-20-23W	2,248	3,728	4,359	4,800

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

NORTON COUNTY (Map Pl. 3)

The 1956 production from 5 fields: oil 919,707 barrels. Wells drilled in 1956: oil 2, dry 19, total 21 including 15 dry wildcats.

Developments during 1956.—Oil production in Norton County decreased by more than 10 percent during the year, and drilling activity declined by more than 50 percent. Only 2 new oil wells were completed, and no new pools were discovered.

Developmental drilling within the Norton field resulted in the completion of 3 dry holes, of which 2 reported shows of oil in the



^{**} Depth to the top of the Arbuckle, feet.

Arbuckle dolomite. The Phillips Petroleum Company brought in an Arbuckle producer within the Ray Northwest field, and the well was assigned an initial potential of 25 barrels of oil per day. A second well was drilled within the field by the Jocelyn-Varn Oil Company, but an Arbuckle drill-stem test reported only a slight show of oil; therefore, the well was abandoned. Activity within the Ray West field consisted solely in the completion of the Jocelyn-Varn Oil Company No. 1 Wiltrout well in sec. 27, T. 5 S., R. 21 W., which was assigned an initial potential of 25 barrels of oil per day.

A total of 15 dry wildcat wells was drilled in the county during the year, and most of the wells penetrated the "granite wash" before they were abandoned. The tops of some important marker beds encountered in drilling these test wells are given in Table 49. The locations of the wells and of the oil producing areas are shown on Plate 3. Production statistics for the county are listed in Table 65.

OSBORNE COUNTY (Map Pl. 2)

The 1956 production from 1 field: oil 84,894 barrels.

Developments during 1956.—Oil production from Ruggles, the county's only field, increased by more than 3 percent over the previous year's figure. Although 5 dry wildcat wells were drilled in the county in 1955, no drilling activity of any type was reported during 1956, and the total of 12 producing wells in the Ruggles field remains unchanged. Statistics on the county's production are listed in Table 65.

PAWNEE COUNTY (Map Pl. 2)

The 1956 production from 39 fields: oil 3,411,011 barrels, gas 4,608-215 thousand cubic feet. Wells drilled in 1956: oil 96, gas 5, dry 72, repressuring or salt-water disposal 2, total 175 including 23 dry wildcats. Reworked wells: oil 1. Fields discovered 5, abandoned 1.

Developments during 1956.—With the completion of 96 new oil wells and the discovery of 3 new oil fields, oil production from Pawnee County increased by more than 41 percent over the

TABLE 49.—Dry wildcat tests drilled in Norton County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Depth to top of Granite Wash, feet	Total depth, feet
C-G Drlg. Co. No. 1 Sanders	SE SE SE 25-2-23W	2,242	3,329	3,557	3,625	3,632
Jones, Shelburne & Farmer, Inc. No. 1 Chase	SE SE NW 2-2-24W	2,453	3,441	3,687	3,713	3,720
D. G. Hansen No. 1 Duensing	NE NE SE 20-2-24W	2,500	3,472	3,730**	3,748	3,775
*Barnett Oil Co. No. 1 Sebaugh	NW NW NW 4-2-25W	2,427	3,336	•	3,672	3,693
*Francis Oil & Gas, Inc., et al. No. 1 Strayer	SE SE SW 12-2-25W	2,506	3,442	3,734**	3,744	3,769
*Jones, Shelburne & Farmer, Inc. No. 1 Horesky	NW NW SE 10-3-23W	2,333	3,413	3,636	3,649	3,682
Jones, Shelburne & Farmer, Inc. No. 1 Lebeau	SE SE NE 33-3-23W	2,420	3,496	3,744**	3,752	3,784
Sauvage & Dunn Drlg. Co., Inc. No. 1 Collins	NW NW SW 6-3-24W	2,467	3,439	••	3,721	3,740
*Jones, Shelburne & Farmer, Inc. No. 1 Ankernman "B"	NE NE SW 4-4-24W	2,458	3,507	•••••	3,774	3,813
*D. G. Hansen No. 1 Holman	NW NW NE 24-4-24W	2,382	3,486	3,780	3,797	3,831
Aurora Gasoline Co. No. 1 Zimmerman	SW SW NE 11-4-25W	2,465	3,528	3,860	3,960	3,9 80
*D. G. Hansen, et al. No. 1 Walters	SE NE SW 2-5-22W	2,101	3,273	3,514	3,576	3,596
Leben Drlg. Co. No. 1 Deln	NW NW SE 14-5-23W	2,158	3,356	3,712		3,760
Jones, Shelburne & Farmer, Inc. No. 1 Moore "B"	SE SE NE 13-5-24W	2,309	3,464	3,842	••••••	3,880
Bell Oil & Gas Co. No. 1 Gilleeze	SE SE SE 28-5-25W	2,452	3,561	3,965		4,005

previous year. The total gas production for the county declined slightly to 4,608,215 cubic feet. Drilling activity also showed a reduction.

The Welch & Olsson Drilling Company brought in a well in sec. 12, T. 22 S., R. 18 W., in September, and when production was reported from the Pennsylvanian basal conglomerate, it was designated as the discovery well of the **Godrey** field. However, the well failed to yield commercial quantities of oil, and the field was subsequently abandoned in October. Additional information on this abandoned discovery well is listed in Table 6.

The 3 new oil fields named during the year were: Jay South (Simpson production), Larned Southwest (Arbuckle production), and Newsom (Mississippian production). The Evers South

field was named in March as an Arbuckle gas producer. Complete data on the discovery wells of these new fields are given in Table 6.

Developmental drilling within the **Hearn** field resulted in the discovery of a new producing zone in the Arbuckle dolomite. The Natural Gas and Oil Corporation completed the discovery well on the Walker lease in sec. 26, T. 23 S., R. 15 W. More information on the well is given in Table 7.

During the year, 62 new oil wells were drilled within the **Garfield** field, and the annual oil production from the field increased by nearly 1 million barrels. Other drilling within the field resulted in the completion of 2 gas wells, 1 reworked well, and 12 dry holes.

Of the 23 rank dry wildcats drilled in the county during 1956, 7 reported shows of oil and 6 reported shows of gas. The tops of some important marker beds encountered while drilling these test wells are given in Table 50. The locations of the wildcat wells and of the areas of oil and gas production are shown on Plate 2. Oil production statistics are given in Table 65, and gas production data are listed in Table 66.

PHILLIPS COUNTY (Map Pl. 2)

The 1956 production from 17 fields: oil 1,842,060 barrels. Wells drilled in 1956: oil 7, dry 7, total 14 including 2 dry wildcats. Reworked wells: oil 2.

Developments during 1956.—Oil production from Phillips County declined about 6 percent from that reported the previous year. Drilling activity increased slightly, but no new pools were discovered.

Developmental drilling within the **Glenwood** field resulted in the completion of 3 dry holes and 1 oil well drilled by the National Associated Petroleum Company on the Booker lease in the NW¼ NW¼ NW¼ sec. 28, T. 1 S., R. 17 W. The well was drilled from a rotary bushing elevation of 2,188 feet above sea level to a total depth of 3,640 feet and was assigned an initial potential of 27 barrels of oil per day.

Other drilling programs resulted in the completion of 1 dry hole and 1 oil well in the Hansen field, 5 oil wells and 2 reworked oil wells in the Huffstutter field, and 1 dry hole in the Ray field.



TABLE 50.—Dry wildcat tests drilled in Pawnee County during 1956

Company and farm	Location		Depth to top of LansK.C.,		Total depth,
		feet	feet	feet	feet
Iron Drlg. Co. No. 1 Wildgen	NW NW SE 19-20-16W	2,044	3,498	3,865	3,903
Leben Drlg. Co. No. 1 Seeman	SW SW NE 23-20-17W	2,054	3,510	3,919	3,970
Frontier Oil Co. No. 1 Schneider	NE NE NW 6-20-19W	2,253	3,789	4,627	4,6 80
Aurora Gasoline Co. No. 1 Alexander	NE NE NE 31-20-19W	2,204	3,801	4,536**	4,753
*L. C. Smitherman Drlg. Co., et al. No. 1 Steffen	SW SW NE 18-20-20W	2,227	3,782	4,640	4,665
*Welch & Olsson Drlg. Co., Inc. No. 1 Deckert	SW SW SW 36-20-20W	2,194	3,768	4,448**	4,480
*K & E Drlg., Inc. No. 1 Kreutziger	NE NE NW 24-21-15W	1,948	3,420	3,797	3,847
Sunray Mid-Cont. Oil Co. No. 1 Yeager	SE SE SW 34-21-15W	1,976	3,503	3,936	3,970
Aurora Gasoline Co., et al. No. 1 Glaze	SE SE NE 15-21-16W	1,983	3,468	3,875	3,905
John Jennings, et al. No. 1 Hewson	NW NW SE 13-21-17W	2,037	3,510	3,874	3,880
Anschutz Drlg. Co., Inc. No. 1 Browne	NW NW SE 10-21-18W	2,092	3,576		4,026
Anschutz Drlg. Co., Inc. No. 1 Lucas	SW SW NW 13-21-18W	2,081	3,556	3,963	4,086
*Rooney-Siegfried-Thom- as, et al. No. 1 Wagner	NE NE SW 19-21-18W	2,079	3,700	4,341**	4,365
Bennett & Roberts Drlg. Co. No. 1 Fox	NW NW NE 31-21-18W	2,066	3,728	4,428	4,539
Welch & Olsson Drlg. Co., Inc., et al. No. 1 Riederer	NW NW NE 29-21-19W	2,084	3,685	4,351**	4,393
Murfin Drlg. Co., et al. No. 1 Malin-Smith	SE SE NE 17-22-15W	1,994	3,531	3,989	4,022
The El Dorado Ref. Co. No. 1 Bowman	SE NE SE 31-22-15W	2,018	3,543	3,971	3,980
Aurora Gasoline Co. et al. No. 1 Sherzer	1-22-18W	2,045	3,628	4,172	4,203
*Rooney-Siegfried- Thomas, et al. No. 1 Meckfessel "C"	SE SE SW 9-22-18W	2,058	3,690	4,295**	4,319
Welch & Olsson Drlg. Co., Inc., et al. No. 1 Barger	SE SE NW 36-22-18W	2,107	3,807	4,456**	4,500
*Hilton Drlg. Co., Inc. No. 1 McCambridge	NW NW NW 20-22-19W	2,138	3,831	4,756	4,811
*Bell Oil & Gas Co. No. 1 Berscheidt	SW SW NW 32-23-16W	2,085	3,753	4,453	4,500
Colo. Oil & Gas Corp. No. 1 Paramore	SE SE NE 13-23-17W	2,083	3,707	4,337	4,452

^{*} 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.

Only 2 dry wildcat tests were attempted in the county during the year, and no oil or gas shows were reported from either well. The first wildcat was drilled in June by the Sauvage & Dunn Drilling Company on the Reese lease in the SE¼ NW¼ NW¼ sec. 3, T. 5 S., R. 19 W. The National Associated Petroleum Company drilled a second well in November on the Morgan lease in the NW¼ NW¼ NW¼ sec. 5, T. 2 S., R. 17 W. The locations of these 2 test holes and of the county's oil producing areas are shown on Plate 2.

Statistics on the annual oil production from the county are listed in Table 65. Water-flooding data on the repressuring project in the **Stuttgart** field are given in Table 1.

PRATT COUNTY (Map Pl. 2)

The 1956 production from 40 fields: oil 2,762,605 barrels, gas 1,358,236 thousand cubic feet. Wells drilled in 1956: oil 12, dry 27, total 39 including 13 dry wildcats. Reworked wells: oil 4. Fields discovered 3.

Developments during 1956.—Production from Pratt County fluctuated slightly from the previous year with oil declining about 3 percent and gas increasing about the same amount. Drilling activity within the county declined by more than 50 percent.

Exploration programs resulted in the discovery of 3 new pools. The Osage Oil & Gas Company, Inc., drilled the discovery well of the **Carver-Robbins** oil field on the Cochran lease in sec. 10, T. 27 S., R. 15 W.; and the No. 1 Haskins well in sec. 5, T. 27 S., R. 14 W., was brought in by the K. & E. Drilling Company, Inc., as the discovery well of the **Haskins** oil field. The **Cullison** gas field was discovered when the Bankoff Oil Company drilled the No. 1 Johnson well in sec. 25, T. 28 S., R. 15 W. More information on the discovery wells of these new fields is given in Table 6.

Original production from the **Haskins** discovery well was assigned to the Viola strata, but additional perforations proved successful in locating a producing zone in the Lansing-Kansas City rocks as well. Data on this second producing zone are listed in Table 7.

The Iuka-Carmi field, the county's largest oil and gas producer, reported 6 oil wells, 3 reworked wells, and 2 dry holes drilled during the year. The oil production from the field increased to



1,472,290 barrels, and gas production increased to 429,051 thousand cubic feet.

A total of 13 dry wildcat wells was drilled during 1956, and 10 of these tests reported shows of oil or gas. More complete data on the wells are given in Table 51. The locations of the wildcats and of the oil and gas producing areas are shown on Plate 2. Oil production statistics are listed in Table 65, and gas statistics are listed in Table 66. Data on the Cunningham pressure maintenance project are given in Table 1.

TABLE 51.—Dry wildcat tests drilled in Pratt County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Viola, feet	Depth to top of Arbuckle, feet	Total depth, feet
Musgrove Petro. Corp. No. 1 Swinger	SW NE NW 6-26-12W	1,900	3,659	4,168	4,315	4,350
Shelley-Miller Drlg., Inc. No. 1 Haas	SE SE NW 22-26-12W	1,908	3,699	4,248	4,400	4,42 0
Phillips Lee Oil Co. No. 1 Long	NW NW NE 26-26-12W	1,878	3,651	4,201	4,378	4,420
Basin Oil No. 1 Robbins	SE SE SE 26-26-15W	2,043	3,937	4,537	4,680	4,718
Bell Oil & Gas Co., et al. No. 1 Tatlock Ranch "A"	NE NE NW 32-26-15W	2,062	3,930	4,423	4,681	4,705
*McKnab Drlg., Inc. No. 1 Pauline Miller	NE SE NW 33-27-13W	1,916		4,293**	4,510	4,527
The El Dorado Ref. Co. No. 1 Gibbons	NW NE SW 36-27-13W	1,873	3,752	4,253	4,415	4,463
Parker Petro. Co., Inc. No. 1 Ivan Adams	NW NW SE 29-27-14W	2,009	3,956	4,498	4,600	4,604
McKnab Drlg., Inc. No. 1 Barnes	SE SE SW 36-27-15W	2,046	4,008	4,580	4,738	4,780
Armer Drlg. Co., Inc. No. 1 Biddinger	NE NE NE 23-28-14W	1,934	3,879	4,399	4,488	4,625
Monsanto Chemical Co. No. 1 Mico	SE SE NW 30-29-11W	1,858	3,933	4,918	5,122	5,169
Monsanto Chemical Co. No. 1 Ocim	NE SW SE 30-29-11W	1,860	3,875	4,628	4,790	4,870
Rupn-Ferguson Oil Co. No. 1 Thompson	NE NE SW 13-29-12W	1,886	3,862	4,490	4,695	4,710

^{*} 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.

RAWLINS COUNTY (Map Pl. 3)

The 1956 production from 1 field: oil 904 barrels. Wells drilled in 1956: oil 1, dry wildcats 1, total 2. Fields discovered 1.



Developments during 1956.—Oil production was reported from Rawlins County for the first time when the **Brumm** field was discovered in June. Unsuccessful attempts to discover oil or gas in the county had been carried on for more than 25 years. The discovery was made by the Miami Operating Company in sec. 7, T. 2 S., R. 36 W., and production was assigned to the Lansing-Kansas City rocks. The well was drilled from a rotary bushing elevation of 3,325 feet above sea level to a total depth of 5,200 feet. The tops of some important marker beds encountered while drilling the well were: Dakota sand, at a depth of 1,280 feet; Topeka limestone, 4,170 feet; Lansing group, 4,306 feet; Mississippian rocks, 4,947 feet; and Arbuckle dolomite, 5,161 feet. Additional data on the discovery well of this field are given in Table 6.

A dry wildcat well was also drilled within the county during the year, but no shows of oil or gas were reported. The test well was drilled in January from a rotary bushing elevation of 3,013 feet above sea level to a total depth of 4,590 feet. Some important tops picked by the scout were: Topeka limestone, at a depth of 3,722 feet; Lansing group, 3,919 feet; Cherokee rocks, 4,344 feet; and Mississippian strata, 4,533 feet. The locations of this wildcat well and of the Brumm producing area are shown on Plate 3.

Oil production statistics for the county are listed in Table 65.

RENO COUNTY (Map Pl. 2)

The 1956 production from 21 fields: oil 1,125,678 barrels, gas 475,-700 thousand cubic feet. Wells drilled in 1956: oil 3, dry 39, total 42 including 26 dry wildcats. Reworked wells: oil 1, dry 1.

Developments during 1956.—Oil production from Reno County declined slightly from that reported for 1955, gas production increased about 5 percent, and 8 fewer wells were drilled during 1956 than during the previous year. No new oil or gas pools were discovered within the county in 1956.

Drilling programs in old fields resulted in the completion of 2 dry holes in the **Beck** field, 1 reworked oil well and 2 dry holes in the **Burrton** field, 1 reworked well and 1 dry hole in the **Hi'ger** field, and 3 oil wells and 3 dry holes in the **Hilger Southwest** field. The **Abbyville**, **Bacon**, **Castleton**, **Haven**, and **Morton** fields all reported the completion of 1 dry hole.



Of the 26 dry wildcat wells drilled in Reno County during the year, 15 reported shows of oil and 12 reported shows of gas. The tops of some important marker beds encountered during the drilling of these tests are given in Table 52. The locations of the dry wildcat wells and of the areas of oil and gas production are shown on Plate 2. Oil production statistics are listed in Table 65, and gas statistics are given in Table 66. Data on repressuring projects are given in Table 1.

TABLE 52.—Dry wildcat tests drilled in Reno County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
Thos. H. Allan No. 1 Schardein	C NE SE 29-22-7W	1,615	3,010	3,526		3,5 70
Beardmore Drlg. Co., et al. No. 1 Rice	NE NE SE 5-22-5W	1,534	2,799	3,470	4,030	4,0 61
*Leben Drlg. Co. No. 1 Schroeder	SW SW SE 6-22-4W	1,521	2,696	3,371	3,979	4,005
*The El Dorado Ref. Co. No. 1 Swanson "A"	NE NW SW 1-23-5W	1,602	2,801	3,462	3,950**	3,99 1
*The El Dorado Ref. Co. No. 1 Swanson "B"	NE SE NW 23-23-5W	1,506	2,719	3,372	3,960	3,97 0
Anschutz Drlg. Co., Inc. No. 1 Wiegel	SE SE SE 9-23-7W	1,596	3,017	3,590	4,043	4,075
Anschutz Drlg. Co., Inc. No. 1 Short	NE NE SE 3-23-8W	1,663	3,141	3,652	4,055	4,105
*Harms-Burt Drlg. Co., et al. No. 1 Trueheart	SE SE SE 5-23-8W	1,676	3,160	3,643	4,055	4,108
Bell Oil & Gas Co. No. 1 Schmucker	NE NE NW 32-23-8W	1,675	3,225	3,725	4,125	4,175
Monsanto Chemical Co., et al. No. 1 Bontrager	SE SW SE 8-24-5W	1,556	2,790	3,461	4,003	4,051
Leben Drlg. Co. No. 1 Gilmore	SE SE NW 36-24-5W	1,507	2,690	3,400	3,830**	3,867
T & M Oil Co. No. 1 Stewart	NE NE NE 16-24-6W	1,563	2,994	3,676	4,167	4,199
Anschutz Drlg. Co., Inc. No. 1 Waggener	SE SE NW 9-24-10W	1,772	3,340	3,708	4,050	4,090
Phillips Lee Oil Co. No. 1 McVey	SE SE SW 19-24-10W	1,773	3,378	3,913**	4,112	4,150
Demier Oil*Co. No. 2 Brownlee	NE NW SW 31-24-10W	1,754	3,393	3,765	4,122	4,150
*Fleming & Woodman Drlg. Co., et al. No. 1 Blocker	S½ SE SW 19-25-4W	1,529	2,816	3,556	3,981**	4,012
Barbara Oil Co. No. 1 Cox	NE NE NW 9-25-5W	1,564	2,771	3,472	3,974	4,008
*Harold Kottwitz, et al. No. 1 Clayton	NE NE SE 23-25-7W	1,490	3,022	3,705	4,159	4,175

Aurora Gasoline Co. No. 1 Breidenstein	NE NE NE 1-25-9W	1,671	3,321	3,820	4,261	4,293
The El Dorado Ref. Co. No. 1 Macatee	SE SE SE 26-25-9W	1,618	3,302	3,839	4,287	4,335
Rex & Morris Drlg. Co., et al. No. 1 Linder	NE NE NW 23-25-10W	1,736	3,412	3,897	4,316	4,346
*L. C. Smitherman Drlg. Co. No. 1 Zink	NE NE NE 31-25-10W	1,790	3,512	3,961	4,370	4,407
Skelly Oil Co. No. 1 Meyers	SE SW SE 21-26-4W	1,470	2,831	3,617	4,162	4,210
Osage Oil & Gas Co., Inc. No. 1 Ast	SW SE NE 34-26-4W	1,503	2,874	3,688	4,259	4,285
Anschutz Drlg. Co., Inc. No. 1 Gardner	NE NE SW 5-26-8W	1,639	3,292	3,879	4,337	4,372
Bennett & Roberts Drlg. Co. No. 1 Haynes	NW NW SW 21-26-10W	1,760	3,542	4,002	4,454	4,490
* No electric or radioactivity log	s available. Kansas	Sample	Log Service,	Independ	ent Oil & C	as Ser-

^{*} 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.

RICE COUNTY (Map Pl. 2)

The 1956 production from 60 fields: oil 5,369,801 barrels, gas 804,157 thousand cubic feet. Wells drilled in 1956: oil 83, gas 1, dry 60, repressuring or salt-water disposal 2, total 146 including 6 dry wildcats. Reworked wells: oil 9, gas 1, dry 1. Fields discovered 3, combined 2.

Developments during 1956.—Oil production from Rice County declined by more than 21 percent during the year, and gas production increased about 22 percent. Drilling activity during 1956 resulted in the completion of 25 more wells than during the previous year.

Exploratory drilling programs were responsible for the discovery of 3 new pools within the county. The Iron Drilling Company No. 1 Bredfeldt well in sec. 12, T. 18 S., R. 10 W., was completed in April as the discovery well of the **Bredfeldt** (Arbuckle production) oil field. The Iron Drilling Company also brought in a producer on the Boldt lease in sec. 23, T. 18 S., R. 10 W., which was designated by the Nomenclature Committee as the discovery well of the **Orth North** field (Arbuckle production). The **Humphreys** gas field was named in August when the No. 1 Humphreys well in sec. 3, T. 21 S., R. 8 W., was reworked by the Sterling Drilling Company. An initial potential of 3,210,000 cubic feet of gas per day was reported from the Pennsylvanian basal conglom-



erate. Additional information on the discovery wells of these new fields is given in Table 6.

Developmental drilling within the **Chase-Silica** field, the fifth largest oil producer in the state, resulted in the completion of 22 oil wells, 4 reworked wells, and 18 dry holes. The "basal Pennsylvanian sand" was reported as a new producing zone in the field when the Mastin & Hyde & Isern Drilling Company brought in the No. 1 Keesing well in sec. 3, T. 20 S., R. 10 W. More data on this zone discovery well are listed in Table 7.

Two new combinations were established by the Nomenclature Committee during the year. The Wherry North field was combined with the Wherry field, and the Keller field was combined with the Chase-Si'ica field; the "Sooy" conglomerate was the producing zone common to all of these fields.

A total of 6 dry wildcats was drilled in Rice County during the year. The tests were concentrated in the northeast part of the county, and 4 of the wells penetrated the Arbuckle dolomite. Only 2 of the wildcats reported shows of oil or gas. The tops of some important marker beds encountered while drilling the wells are listed in Table 53. The locations of these wildcat tests and of the areas of oil and gas production are shown on Plate 2. Significant oil production data are listed in Table 65, and gas data are given in Table 66. Data on water-flooding operations in the **Orth** field are given in Table 1.

TABLE 53.—Dry wildcat tests drilled in Rice County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C. feet	Depth to top of .,Penn. basal cong., feet	Depth to top of Arbuckle, feet	Total depth, feet
*Greenland Drlg. Co. No. 1 Root	NW NW NW 25-18-6W	1,678	2,861	3,410	3,494**	3,522
George Hess No. 1 O'Hara	NW NW NE 26-18-7W	1,666	********	3,191		3,229
Earl F. Wakefield No. 1 Buckbee	SE SE SW 21-18-8W	1,760	2,885	3,225	3,437	3,455
Brown Drlg., et al. No. 1 Cain	NE NW SW 27-19-7W	1,743	2,875	3,232	3,626	3,652
Sterling Drlg. Co. No. 1 Thiessen	NE NE NE 15-19-8W	1,762	2,852		3,197	3,245
Bennett & Gould No. 1 Tobias	SE SE SE 9-20-7W	1,688	2,890	3,268	3,638	3,675

^{*} 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.

ROOKS COUNTY (Map Pl. 2)

The 1956 production from 79 fields: oil 6,988,701 barrels. Wells drilled in 1956: oil 73, dry 85, repressuring or salt-water disposal 1, total 159 including 12 dry wildcats. Reworked wells: oil 3, dry 2, salt-water disposal 1. Fields discovered 5, combined 19.

Developments during 1956.—Oil production from Rooks County declined slightly from the previous year to 6,988,701 barrels during 1956. Well completions dropped from 199 during 1955 to 159 during 1956, but the county maintained its position as the fifth largest oil producer in the state.

During the year, 5 new oil fields were named in the county by the Nomenclature Committee. The new fields are the Annon South, Cresson, Gra-Rook North, Trarbach, and Williams North. The discovery well for the **Annon South** field was drilled by the Oil Trading Association, Inc., on the Briggs lease in sec. 34, T. 10 S., R. 20 W.; and the No. 1 Baldwin well in sec. 11, T. 9 S., R. 20 W., was brought in by Jones, Shelburne & Farmer, Inc., as the discovery well of the Cresson field. The K & E Drilling Company, Inc., No. 2 Town Estate well in sec. 18, T. 9 S., R. 20 W., was the discovery well of the Gra-Rook North field. The Trarbach field was named when the Francis Oil & Gas, Inc., brought in the No. 1 Trarbach well in sec. 36, T. 10 S., R. 20 W.; and the No. 1 Stucky well, drilled by the Osage Oil & Gas Company, Inc., in sec. 32, T. 9 S., R. 18 W., was the discovery well of the Williams North field. More data on the discovery wells of these new fields are given in Table 6.

Three major combinations were made during the year in Rooks County and adjoining counties. The Cooper North, Laura, Morlan, Muilenburg, and Smith-Denning fields in Graham County and the Palco Southwest field and portions of the Palco field in Rooks County were all combined with the Cooper field (Graham County). The Noah, Spaulding, and White Southwest fields in Graham and Trego Counties and the Allphin, Allphin Northwest, Annon, Annon South, Bassett, Laura Southeast, and Marcotte South fields in Rooks County were all combined under the new name of Trico. A third combination in November brought together Amboy Southwest, Berland South, Berland Southwest, Marcotte North, Marcotte Southwest, Nutsch, Palco Southeast, Trarbach, and part of Palco with the Marcotte field.



Developmental drilling within the county resulted in the discovery of production from the Shawnee group of rocks in the **Webster** field and Arbuckle production in the **Williams North** field. Significant data on the discovery wells of these new zones are given in Table 7.

Drilling activity within the Marcotte field, the county's leading oil producer, resulted in the completion of 23 oil wells, 1 reworked well, and 18 dry holes. The field's production increased to more than 1½ million barrels of oil, reflecting the field's combination with 9 other fields during the year.

Of the 12 dry wildcats drilled during 1956 half of the test wells reported shows of oil. The tops of some important marker beds encountered during the drilling of these wells are given in Table 54. The locations of the wildcats and of the areas of oil production are shown on Plate 2. Oil production statistics are listed in Table 65. Data on 3 secondary recovery projects are given in Table 1.

RUSH COUNTY

(Map Pl. 2)

The 1956 production from 16 fields: oil 702,720 barrels, gas 2,548,-288 thousand cubic feet. Wells drilled in 1956: oil 28, gas 2, dry 30, repressuring or salt-water disposal 1, total 61 including 18 dry wildcats. Fields discovered 4.

Developments during 1956.—During the year oil production from Rush County increased by more than 75 percent, but gas production declined by about 5 percent. The number of new wells drilled in the county increased to 61 as compared to the previous year's total of 56, and exploration programs resulted in the discovery of 3 oil pools and 1 gas pool.

The Aylward Drilling Company brought in the discovery well of the Lohrey gas field on a lease in sec. 35, T. 17 S., R. 17 W. Production was assigned to the Pennsylvanian basal conglomerate, and the initial potential was rated at 6,700,000 cubic feet of gas per day. The Pechanec oil field was named upon the completion of the Skelly Oil Company No. 1 Pechanec well in sec. 2, T. 19 S., R. 17 W.; and the No. 1 Weber well in sec. 32, T. 19 S., R. 16 W., was completed as the discovery well of the Ryan West field by the Ben F. Brack Oil Company, Inc. The Webs Southwest field was named when the Natural Gas & Oil Corporation



TABLE 54.—Dry wildcat tests drilled in Rooks County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
*Watson Drlg. Co., Inc. No. 1 Miller	NW SW SW 3-6-18W	1,852	3,102	3,464	3,475
*Jones, Shelburne & Farmer, Inc. No. 1 Sprick	NE SE SE 12-7-17W	1,749	2,885	3,290	3,325
Anschutz Drlg. Co., Inc., et al. No. 1 Loeffler	SW SW NW 8-7-20W	2,143	3,373	3,604	3,680
Osage Oil & Gas Co., Inc. No. 1 Bogart	SE SE SE 20-7-20W	2,070	3,303	3,556	3,610
Leben Drlg. Co., et al. No. 1 Mitchem	NE NE SW 29-8-18W	2,044	3,228	3,496	3,530
*I. O. Miller Oil Co. No. 1 Lecuyer	SW SW NW 29-8-20W	2,096	3,337	3,654	3,677
*Leo J. Dreiling Oil Co. No. 1 Schwaller	S½ NW SE 31-8-20W	2,070	3,329		3,663
Leben Drlg. Co. No. 1 Search	SW SW NE 3-9-17W	2,009	3,159	3,468	3,525
Iron Drlg. Co. No. 1 Ross	SE SW NW 7-10-17W	2,107	3,306	3,656	3,680
Murfin Drlg. Co. No. 1 Stevenson	SW SW NE 13-10-17W	2,052	3,253	3,588**	3,623
Graham-Messman-Rinehart Oil Co. No. 1 Tipton	SE SE SW 22-10-19W	2,094	3,301	3,625	3,645

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

completed the No. 1 O. J. Williams "B" well in sec. 16, T. 19 S., R. 20 W. Further information on the discovery wells of these fields is given in Table 6.

Developmental drilling within the Otis-Albert field, the county's leading oil producer, resulted in the completion of 23 oil wells, 1 gas well, 6 dry holes, and 1 salt-water disposal well. Oil production from the field more than doubled during the year to a new high of 456,574 barrels. Production from the Ryan field, the county's leading gas producer, declined slightly during the year, and no new gas wells were completed within its boundaries.

Exploratory drilling resulted in the completion of 18 dry wildcats, but only 3 of these test wells reported shows of oil or gas. The tops of some significant marker beds encountered in drilling these wells are given in Table 55. The locations of the wildcat tests and of the areas of oil and gas production are shown on Plate 2.

^{**} Depth to the top of the Simpson, feet.

Oil production statistics are listed in Table 65, and gas statistics for the county are given in Table 66. Data on secondary recovery in the **Otis-Albert** field are given in Table 1.

TABLE 55.—Dry wildcat tests drilled in Rush County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of Anhydrite, feet	Depth to top of ,LansK.C., feet	Depth to top of Arbuckle, feet	Total depth feet
Woodman & Iannitti No. 1 Maier	SE SE NW 27-16-16W	1,923	1,032	3,225	3,526	3,560
Iron Drlg. Co. No. 1 Stegman	NW NW NW 11-16-17W	1,984	••••••	3,286	3,546	3,594
Aurora Gasoline Co. No. 1 Burgardt	SW SW NE 15-16-17W	2,006	1,155	3,297	3,552	3,619
Leben Drlg. Co., et al. No. 1 Linpert	NE NE SW 29-16-17W	2,032		3,291	3,583**	3,607
Anschutz Drlg. Co., Inc. No. 1 Seelye	NW SW SE 3-16-19W	2,043		3,327	3,622**	3,655
Solar Oil Co. No. 1 Schmidt	SW SW SW 28-16-19W	2,054	1,290	3,446	3,836	3,890
Nadel & Gussman No. 1 Curtis	SW SW SW 10-16-20W	2,169	1,640	3,582	3,990	4,050
Honaker-Davis Drlg. Co. No. 1 Becker	NW NW SW 20-17-18W	2,107	1,250	3,422		3,813
Honaker-Davis Drlg. Co. No. 1 Greenway	SW SW SW 13-17-19W	2,160	1,330	3,512	3,902	3,946
Honaker-Davis Drlg. Co. No. 1 Axman	NE NE NE 27-17-19W	2,174	1,345	3,538	3,912	3,93 5
Helmerich & Payne, Inc. No. 1 Noble	NW NE SE 6-17-20W	2,159		3,556	4,111	4,126
*Natural Gas & Oil Corp. No. 1 Morrow	SE SW NE 31-17-20W	2,177	1,404	3,620	4,154***	4,195
Skelly Oil Co. No. 1 Rodie	NW NW SE 25-18-17W	2,057	1,118	3,394	3,729**	3,768
Leben Drlg. Co. No. 1 Gogleman	SE SE SE 34-18-19W	2,104	1,262	3,536	3,932	3,988
*Woodman & Iannitti No. 1 Hagerman	SE NW SE SE 7-19-16W	2,105	1,180	3,508	3,852	3,890
*Petroleum, Inc. No. 1 Schroter "B"	SW NW SW 21-19-17W	2,141		3,530	3,899	4,000
Leben Drlg. Co. No. 1 Button	NW NW SW 5-19-18W	2,098	1,220	3,514	3,916	3,945
Parker Petro. Co., Inc. No. 1 Pfenninger	SE SE SW 27-19-19W	2,279		3,753	4,200	4,265

RUSSELL COUNTY (Map Pl. 2)

The 1956 production from 36 fields: oil 9,883,669 barrels, gas 22,768 thousand cubic feet. Wells drilled in 1956: oil 99, dry 55, re-

pressuring or salt-water disposal 4, total 158 including 6 dry wildcats. Reworked wells: oil 16, dry 4, salt-water disposal 4. Fields discovered 2, revived 1.

Developments during 1956.—Oil and gas production from Russell County declined slightly during the year, although drilling activity showed an increase over that of the previous year. A decline in the total number of producing wells to 2,969 from the 1955 total of 2,999 did not, however, remove the county from its position of the third largest oil producer in the state.

Two new oil fields were named during the year, and both reported production from the Lansing-Kansas City strata. The No. 1 McKune well, drilled by A. F. Schmitt in sec. 17, T. 13 S., R. 15 W., was the discovery well of the **Kune** field. The **Worley** field was named upon the completion of the Western Development Company No. 1 Worley well in sec. 4, T. 11 S., R. 15 W. Additional information on the discovery wells of these new fields is given in Table 6.

With the completion of the No. 1 Fee well, oil production was reported from the abandoned **Driscoll** field for the first time since 1951, and the Nomenclature Committee subsequently revived the field. The revival well was drilled by Jerry Driscoll in sec. 30, T. 15 S., R. 11 W., and the following tops were reported: Heebner shale, at 2,890 feet; Kansas City group, 2,995 feet; and conglomerate, 3,300 feet. Further data on this revival well are listed in Table 6.

Developmental drilling in Russell County's portion of the **Trapp** field, the second largest oil producer in the state, resulted in the completion of 23 oil wells, of which 13 were reworked wells, 7 dry holes, and 1 salt-water disposal well. Oil production from the field declined from 3,406,531 barrels during 1955 to 3,045,151 barrels during 1956.

Of the 6 dry wildcat wells drilled, 2 reported shows of oil. The tops of several significant marker beds encountered while drilling these wells are given in Table 56. The locations of the wildcat tests and of the areas of oil production are shown on Plate 2.

Oil production statistics are listed in Table 65, and gas production figures are given in Table 66. Data on 12 secondary recovery projects are given in Table 1.



Surface Total Surface top of elevation, Lans.-K.C. top of Arbuckle, depth, Company and farm Location feet feet feet feet *Anschutz Drlg. Co., Inc. No. 2 Steinert "A" 3,345 SE SE SE 1,805 2,988 22-12-15W *Frontier Oil Co. NW SE SE 1,792 2,911 3,253 3,310 No. 1 Beisel 6-14-11W *Coppinger Drlg., Inc. SE NE SE 1,706 2,836 3,215 3,245 No. 1 Wikle 16-14-11W 1,797 *Fleming & Woodman Drlg. Cen. N½ NE 2,937 3,075 Co., et al. No. 1 Kapp NE 17-14-12W SW SE SW 3,358 *The Henderson Oil Co. 1,828 2,983 3,372 No. 1 Charvat 24-15-11W *W. T. Frazier SW SW NE 3,377 1,859 3,049 3,400 36-15-12W No. 1 Casey 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 Pl. 2) The 1956 production from 11 fields: oil 811,834 barrels. Wells drilled in 1956: oil 2, dry 6, total 8 including 5 dry wildcats. Reworked wells: oil 1. from

TABLE 56.—Dry wildcat tests drilled in Russell County during 1956

Depth to

Depth to

Developments during 1956.—Oil production Saline County declined about 27 percent from the previous year as drilling activity dropped to a total of 8 wells during 1956. No new oil pools were discovered within the county.

Developmental drilling during the year was restricted to activity in 3 fields. The Gypsum Creek field reported the drilling of the Natural Gas & Oil Company No. 4 Van Meter well in sec. 32, T. 16 S., R. 1 W., which was abandoned after a drill-stem test recorded only a slight show of oil cut mud. The F. S. Williams No. 2 James well in sec. 8, T. 16 S., R. 1 W., was completed in September within the **Hunter North** field, and it was assigned an initial potential of 15 barrels of oil per day. A second well was drilled in the field by the same company on the Johnson lease in sec. 8, T. 16 S., R. 1 W., and it was rated at 25 barrels a day from the Mississippian strata. The Swenson field reported the completion of the Glickman Oil Company No. 1 Flemming well in sec. 34, T. 15 S., R. 3 W., which was assigned an initial potential of 20 barrels of oil per day.

Exploratory drilling within the county resulted in the completion of 6 wildcat test wells, of which 2 reported shows of oil. The

tops of some important marker beds encountered while drilling the wells are given in Table 57. The locations of these wildcat wells and of the oil producing areas are shown on Plate 2. Oil production statistics are listed in Table 65.

TABLE 57.—Dry wildcat tests drilled in Saline County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of Mississip- pian, feet	Depth to top of Viola, feet	Depth to top of Arbuckle, feet	Total depth, feet
Rupp-Ferguson Oil Co. No. 1 Craig	SE SE SE 20-13-3W	1,233	2,877	3,526	3,732	3,769
*Donald T. Ingling, et al. No. 1 Price	SE NE SE 3-14-2W	1,200	2,578	3,147	1,906**	3,176
*Earl F. Wakefield, et al. No. 1 Thelander	SW SW NW 22-14-2W	1,279	2,598	3,180	3,378	3,399
Natl. Coop. Ref. Assn., et al. No. 1 Schultz	SW SW SE 16-15-3W	1,275	2,746	3,350	3,522	3,553
Rupp-Ferguson Oil Co. No. 1 Blomberg	SW SW SE 32-16-5W	1,593	3,317	3,718	3,844	3,884

^{*} 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. 3)

The 1956 production from 3 fields: oil 59,957 barrels. Wells drilled in 1956: dry wildcats 3.

Developments during 1956.—Oil production from Scott County's 13 producing wells declined about 30 percent from the previous year. No new pools were discovered in the county during the year.

Exploratory drilling programs resulted in the completion of 3 dry wildcat wells in the southern part of the county. The Atkinson & Ostrander No. 1 Eitel well in the SW¼ SW¼ SE¼ sec. 23, T. 18 S., R. 31 W., was completed in July as a dry hole. Drilled from a rotary bushing elevation of 2,925 feet above sea level to a total depth of 4,760 feet, the well encountered the tops of the following beds: Heebner shale, at a depth of 3,890 feet; Lansing group, 3,932 feet; Cherokee rocks, 4,470 feet; and the Mississippian strata, 4,554 feet. The Imperial Oil Company of Kansas, Inc., No. 1 Strickert well in the SW¼ SW¼ SW¼ sec. 1, T. 19 S., R. 32 W., encountered the following tops: Heebner shale, at a depth of 3,933 feet; Lansing group, 3,976 feet; Cherokee rocks,

^{*} Depth to the top of the Lansing, feet.

4,512 feet; and the Mississippian strata, 4,625 feet. The No. 1 Corn well in the cen. SW¼ SW¼ sec. 27, T. 20 S., R. 33 W., was drilled by the Imperial Oil Company of Kansas from a rotary bushing elevation of 2,951 feet above sea level to a total depth of 4,850 feet. The following tops were reported: Lansing group, at 3,925 feet; Marmaton rocks, 4,294 feet; and the Mississippian strata, 4,699 feet. The locations of these dry wildcat wells are shown on Plate 3.

Statistics on the oil production during the year from the county are listed in Table 65.

SEDGWICK COUNTY (Map Pl. 2)

The 1956 production from 43 fields: oil 2,723,564 barrels, gas 177,-829 thousand cubic feet. Wells drilled in 1956: oil 53, gas 2, dry 54, repressuring or salt-water disposal 2, total 111 including 24 dry wild-cats. Reworked wells: oil 1. Fields discovered 5.

Developments during 1956.—Oil production from Sedgwick County increased by more than 27 percent during the year, and 5 new oil pools were discovered. Gas production declined by more than 10 percent.

Of the 5 new oil fields named in the county during the year, 3 reported production from the Mississippian strata and 2 reported production from the Lansing-Kansas City rocks. The Pickrell Drilling Company completed the No. 1 Struthers "A" well in sec. 2, T. 29 S., R. 2 W., as the discovery well of the Chambers Northeast field. The No. 1 Deffner well in sec. 7, T. 29 S., R. 1 E., was brought in by the E. H. Adair Oil Company as the discovery well of the Gladys Southwest field. The Beardmore Drilling Company completed the No. 1 Smith well in sec. 12, T. 29 S., R. 1 W., as the discovery well of the Brumley Northwest field. The same company completed the No. 1 Lauterbach well in sec. 33, T. 29 S., R. 2 W., as the discovery well of the Latta North field. The James Tasheff and Sam Marcus No. 1 Edson well in sec. 1, T. 26 S., R. 2 E., was brought in as the discovery well of the Greenwich Northeast field. Additional information on these discovery wells is given in Table 6.

Developmental drilling within the **Brumley** field resulted in the discovery of the first producing zone in the Lansing-Kansas City rocks. The zone discovery well was drilled by the Shawver-



Armour, Inc., on the Huffman lease in sec. 18, T. 29 S., R. 1 E., in April. Further information on this well is listed in Table 7.

The highest rate of drilling activity during the year was reported by the **Gladys** field, the county's leading oil producer. A total of 41 oil wells, 1 reworked well, 9 dry holes, and 2 salt-water disposal wells was drilled within the field. Production during 1956 rose to 1,810,105 barrels of oil, which represented more than a 60 percent increase over the previous year's figure.

Exploratory drilling resulted in the completion of 24 dry wildcats, of which 5 reported shows of oil and 4 reported shows of gas. The tops of some significant marker beds encountered while drilling these test wells are given in Table 58. The locations of the wildcats and of the areas of oil and gas production are shown on Plate 2. Oil production data are given in Table 65, and gas production data are listed in Table 66. Data on secondary recovery in the **Robbins** field are given in Table 1.

TABLE 58.—Dry wildcat tests drilled in Sedgwick County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
*Murfin Drlg. Co., et al. No. 1 Moriarty	SW SW NE 32-25-1E	1,391	2,315	3,094	3,608	3,629
*A. D. Allison & Co., Inc. No. 1 Ulmer	NE NE SE 10-25-2E	1,352	2,125	2,826		3,310
*J. P. Gaty No. 1 Shepherd	SW NW NE 13-25-2E	1,350		2,794	3,348	3,356
Bachus Oil Co. No. 1 Ulmer	SW SW NW 27-25-2E	1,378		2,896	3,406	3,445
*E. H. Adair Oil Co. No. 1 Pearson	SW SW SW 19-26-1E	1,332		3,056	3,430**	3,469
*Rex & Morris Drlg. Co., et al. No. 1 Shorey	SW SW NE 28-28-2E	1,336	2,206	3,056	3,431	3,447
*Beech Aircraft Corp. No. 1 Kennedy	SW NW NW 29-28-2E	1,367	2,220			2,281
*Beech Aircraft Corp. No. 2 Scott	NE SE NE 30-28-2E	1,363	2,220			2,256
*J P. Gaty, et al. No. 1 Ainsworth	NW SE SE 7-29-2E	1,303	2,255	3,088	3,501	3,503
*N. Appleman Co. No. 1 Deweese	SE SE NW 1-25-1W	1,394	2,323	3,105		3,608
*E. H. Adair Oil Co. No. 1 Childers	NW NW NW 14-25-1W	1,366	2,374	3,208		3,714
*Siegel Oil Co. No. 1 Ven John	SE SE NW 2-26-3W	1,418	2,644	3,489	4,070	4,105
*Francis M. Raymond No. 1 Kruckenberg	SW SE SW 32-27-1W	1,313	2,546	3,335		3,415

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Sierra Petro. No. 1 Koster	SE SW NW 6-27-4W	1,384	2,796	3,593	4,004**	4,062
Amerada Petro. Corp. No. 1 Becker	SE NE SE 18-27-3W	1,485	2,876	3,739	4,310	4,332
E. K. Carey Drlg. Co., Inc. No. 1 Zongker	NW NW NE 20-28-2W	1,404	3,056	3,675	4,274	4,290
*E. K. Carey Drlg. Co., Inc. No. 1 Pauley	NE NE SW 31-28-2W	1,394	•	3,736		3,812
Barbara Oil Co. No. 1 Becker	NW NW SW 13-28-3W	1,414	2,914	3,722	4,308	4,331
Earl F. Wakefield No. 1 Broadway "C"	NW NW SE 17-28-3W	1,434	•••••	3,773	4,331	4,365
*Shawver-Armour, Inc. No. 1 Parker	NW NW NE 20-29-1W	1,295	•	3,555		3,595
Shawver-Armour, Inc. No. 1 Poehner	NE NE NE 22-29-1W	1,293	•••••	3,347	3,718***	3,760
*Renfro Drlg. Co. No. 1 Tourbier	NW NW SE 28-29-1W	1,268	2,891	3,405		3,478
Natural Gas & Oil Corp. No. 1 Strunk	SW SW NW 5-29-2W	1,340	•••••	3,609	•••••	3,680
*McNeish & Gralapp No. 1 Pauly	SE SE NE 2-29-3W	1,345		3,734	•••••	3,825
Seaboard Oil Co. No. 1 Olthoff	NW NW NW 11-29-4W	1,338	4,250***	3,830	4,330	4,394

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

SEWARD COUNTY

(Map Pl. 3)

The 1956 production from 16 fields: oil 36,011 barrels, gas 29,925,-323 thousand cubic feet. Wells drilled in 1956: gas 21, dry 2, total 23 including 1 dry wildcat. Reworked wells: gas 1, dry wildcats 1. Fields discovered 1.

Developments during 1956.—Oil production from Seward County declined about 45 percent, but gas production remained about the same as the previous year's figure. Drilling activity within the county declined from 34 wells during 1955 to 23 wells during 1956.

A single new pool was discovered during the year. The **Plains West** gas field was named in November when the Southwestern Exploration Company brought in the No. 1 Collins well in sec. 16, T. 32 S., R. 31 W. Drilled from a rotary bushing elevation of 2,810 feet above sea level to a total depth of 5,750 feet, the well encountered the following tops: Fort Riley limestone at a depth of 2,894 feet; Heebner shale, 4,286 feet; Lansing group, 4,386 feet;



^{**} Depth to the top of the Viola, feet.

^{***} Depth to the top of the Simpson, feet.

Morrowan sand, 5,549 feet; and Chesteran rocks, 5,610 feet. Additional information on this discovery well is given in Table 6.

Developmental drilling within the **Wide Awake** field resulted in the discovery of the first Mississippian producing zone in that field. The discovery was made by the No. 1 Keeting well in sec. 33, T. 34 S., R. 34 W., drilled by the Westhoma Oil Company. More information on this zone discovery well is listed in Table 7.

Developmental drilling within the Seward County portion of the **Hugoton Gas Area** resulted in the completion of 18 new gas wells, and gas production increased to 24,894,277 cubic feet during the year. Additional data on the field and some notes on the early history of the **Hugoton Gas Area** are given in the introductory section of this report.

Only 1 dry wildcat well was drilled in the county during the year. It was drilled by the McKnab & Lindsay Drilling Company on the Alexander lease in the cen. SW 1/4 NE 1/4 sec. 14, T. 33 S., R. 32 W., in December. Some important tops encountered while drilling the well were as follows: Lansing group at a depth of 4,482 feet; Marmaton rocks, 5,134 feet; Cherokee strata, 5,295 feet; Morrowan rocks, 5,668 feet; and Chesteran strata, 5,824 feet. The locations of this wildcat test well and of the areas of oil and gas production are shown on Plate 3.

Oil production statistics are given in Table 65, and gas data are listed in Table 66.

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 State Geological Survey has records of 30 test wells in Shawnee County previous to 1955.

Exploration during 1956.—In November 1956 George F. Johnston, Jr., drilled the No. 1 Viergever well in the NE¼ SW¼ NE¼ sec. 36, T. 11 S., R. 13 E., to a total depth of 2,798 feet before abandonment. The following tops were reported from an elevation of 1,017 feet above sea level: Heebner shale, 630; "Douglas sand", 650; Lansing group, 918; Kansas City group, 1,047; base of Kansas City, 1,065; "Bartlesville" sand, 1,988; "Burgess" sand, 1,994; Mississippian rocks, 2,004; "Kinderhook", 2,258; "Hunton" lime-



stone, 2,420; Viola limestone, 2,665; and Simpson group, 2,791 feet. A drill-stem test at 2,788 to 2,798 feet recovered 1,245 feet of salt water. No shows of oil were reported.

The location of this rank wildcat test is shown on Plate 1.

SHERIDAN COUNTY

(Map Pl. 3)

The 1956 production from 12 fields: oil 491,997 barrels. Wells drilled in 1956: oil 6, dry 25, total 31 including 18 dry wildcats. Fields discovered 2, abandoned 1.

Developments during 1956.—Although drilling activity in the county during the year declined about 25 percent, oil production increased by more than 13 percent, and 2 new pools were discovered.

The Advance oil field was named in June when the Heathman-Seeligson Drilling Company brought in a well on the Brown lease in sec. 26, T. 8 S., R. 27 W., and the same company completed the No. 1 Decker "A" well in sec. 6, T. 9 S., R. 28 W., as the discovery well of the Hoxie oil field. The Advance field reported production from the Lansing-Kansas City strata, and the Hoxie field reported production from the Toronto limestone. Additional information on these discovery wells is given in Table 6.

No production was reported from the **Chicago** field since its discovery in 1955; hence, the Nomenclature Committee abandoned the field in May.

Oil production from the **Adell** field, the county's leading producer, increased to 297,318 barrels during the year as compared to the previous year's production of 269,197 barrels. Developmental drilling within the field resulted in the completion of 1 oil well and 1 dry hole. The tops of the following marker beds were encountered while drilling the dry hole: Heebner shale at a depth of 3,530 feet; Toronto limestone, 3,555 feet; and the Lansing group, 3,572 feet.

Of the 18 dry wildcat wells drilled in the county during the year, 9 reported shows of oil, and 1 reported a slight show of gas. Further data on these wildcat tests are listed in Table 59. The locations of the wildcat wells and of the oil producing areas are shown on Plate 3.

Oil production statistics are given in Table 65.



Table 59.—Dry wildcat tests drilled in Sheridan County during 1956

<u> </u>					
Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississip- pian, feet	Total depth, feet
The Veeder Sup. & Dev. Co., et al. No. 1 Seeberger	SW SW SW 34-6-30W	2,917	3,993	4,526	4,602
R. W. Shields. et al. No. 1 Heskett	SE SE SW 1-7-26W	2,560	3,630	4,150	4,2 81
Osage Oil & Gas Co., Inc. No. 1 Bangle	NW SE NE 5-7-26W	2,622	3,806	4,300	4,349
*Empire Drlg. Co. No. 1 Davis	NE NE NE 1-8-26W	2,454	3,675		3,900
Empire Drlg. Co. No. 1 Niblock	NE NE SE 3-8-26W	2,497	3,673	•••••	3,900
Leben Drlg. Co. No. 1 Toothaker	SE SE SW 7-8-27W	2,664	3,870	4,427	4,480
Natl. Coop. Ref. Assn., et al. No. 1 Davis	SE NE SW 11-8-27W	2,570	3,759		3,999
Heathman-Seeligson Drlg. Co. No. 1 Brown "D"	NW SE SW 36-8-27W	2,659	3,832	•••••	4,111
*Heathman-Seeligson Drlg. Co. No. 1 Clark "A"	NE NE SE 32-8-28W	2,737	3,860	4,415	4,430
Theodore Gore No. 1 Epler	SW SW SE 23-9-26W	2,634	3,884	4,440	4,490
Natl. Coop. Ref. Assn. No. 1 Haffner	SE NE NW 19-9-27W	2,755	3,887		4,140
Heathman-Seeligson Drlg. Co. No. 1 Albert	SW SW NW 22-9-27W	2,721	3,884	4,424	4,460
Heathman-Seeligson Drlg. Co. No. 1 Kaiser	C SE SE 7-10-26W	2,650	3,893	4,451	4,513
Heathman-Seeligson Drlg. Co. No. 1 Goetz "A"	NW NW SW 3-10-27W	2,649	3,827	4,391	4,463
Anschutz Drlg. Co., Inc. No. 1 Park College	SW SW SE 14-10-27W	2,586	3,780		4,050
Heathman-Seeligson Drlg. Co. No. 1 Hein	NW NW NW 16-10-28W	2,741	3,862	•••••	4,379
Empire Drlg. Co. No. 1 Koerber	SE SE SE 24-10-29W	2,771	3,894	4,463	4,539

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

SHERMAN COUNTY

(Map Pl. 3)

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

Exploration during 1956.—One dry wildcat test was drilled within the county during the year. It was completed by the Van Grisso Oil Company on the Golden lease in the SE¼ SE¼ SE¼



sec. 24, T. 10 S., R. 42 W., in July. Drilled from a rotary bushing elevation of 3,863 feet above sea level to a total depth of 5,471 feet, the well encountered the tops of the following marker beds: Topeka limestone at a depth of 3,981 feet; Heebner shale, 4,183 feet; Lansing group, 4,232 feet; Marmaton rocks, 4,640 feet; and Mississippian strata, 5,268 feet. A drill-stem test at a depth of 2,934 to 2,965 feet recorded a slight show of gas cut mud. The location of this test well is shown on Plate 3.

STAFFORD COUNTY (Map Pl. 2)

The 1956 production from 158 fields: oil 6,231,835 barrels, gas 1,091,145 thousand cubic feet. Wells drilled in 1956: oil 118, gas 2, dry 128, repressuring or salt-water disposal 1, total 249 including 18 dry wildcats. Reworked wells: oil 8, dry 4. Fields discovered 13, combined 3, abandoned 1.

Developments during 1956.—Although oil production from the county declined by more than 5 percent from the previous year's figure, gas production increased by more than 27 percent. On the basis of its 1956 production figures Stafford County moved up into the position of the sixth leading oil producing county in the state. A total of 249 wells of all types was completed during 1956 as compared to 167 wells during 1955. Exploratory programs resulted in the discovery of 13 new pools.

Of the 13 new fields named within the county during the year, the Dillwin, Gates North, Seevers Northwest, and the White Cloud fields reported production from the Arbuckle dolomite; the Krankenberg, Leiss, and Shepherd Northwest fields reported production from the Simpson sand; the Farmington Northwest, Harter North, and Rattlesnake East fields reported production from the Lansing-Kansas City rocks; and the Farmington North and Moody fields reported production from the Mississippian strata. The Knoche South field was named in September when the Anschutz Drilling Company No. 1 Byer well in sec. 17, T. 24 S., R. 12 W., reported a small amount of Viola oil production, but the field had to be abandoned in October because commercial quantities could not be produced. Additional information on the discovery wells of these new fields is given in Table 6.

Action by the Nomenclature Committee during the year resulted in combining the Lincoln Northwest field with the Bayer



field (Simpson production), Fisher and Fisher Northwest fields with Gates (Lansing and Arbuckle production), and Pritchard South, Pritchard Southeast, and Starr fields in Stafford County with the Pritchard field (Lansing and Arbuckle production) in Barton County.

Developmental drilling within the county resulted in the discovery of new producing zones in 10 fields. Simpson production was reported from the Bayer, Farmington, and Sand Hills fields; Viola production from the Bayer, Lincoln Northwest, and Radium Townsite fields; Mississippian production from the Farmington Northwest and Rattlesnake East fields; and Lansing-Kansas City production from the Pundsack North, Seevers Northwest, and Taylor fields. Data on the initial potentials and thicknesses of these new zones are given in Table 7.

Of the 18 dry wildcat wells drilled in the county during the year, 4 reported shows of oil and 2 reported shows of gas. The tops of important marker beds encountered while drilling the wells are given in Table 60. The locations of the wildcat tests and of the areas of oil and gas production are shown on Plate 2.

Oil production statistics are listed in Table 65, and gas production statistics are given in Table 66. Data on repressuring in the **Jordan** field are given in Table 1.

STANTON COUNTY (Map Pl. 3)

The 1956 production from 2 fields: oil 786 barrels, gas 16,916,185 thousand cubic feet. Wells drilled in 1956: gas 4, dry 3, total 7 including 2 dry wildcats.

Developments during 1956.—Although gas production from the Stanton County portion of the Hugoton Gas Area increased by more than 9 percent, the county remained the smallest producer in the field. Oil production was reported from the county for the first time, when 786 barrels (distillate) was reported from the Sparks gas field. Developmental drilling within the field resulted in the completion of 3 gas wells and 1 dry hole. No drilling was reported from the Hugoton Gas Area.

Exploratory drilling within the county resulted in the completion of 2 dry wildcats which penetrated Mississippian strata. One of the test wells, the No. 1 Rorick Unit, completed by the



TABLE 60.—Dry wildcat tests drilled in Stafford County during 1956

-			-	-	
Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
Monsanto Chemical Co. No. 1 Andress	SE SE NE 1-21-13W	1,858	3,236	3,499	3,525
*Phillips Lee Oil Co. No. 1 Taylor	NE NE SE 8-21-14W	1,942	3,345	3,677	3,709
Rex & Morris Drlg. Co., et al. No. 1 Phillips	SW SW SW 30-21-14W	1,959	3,419	3,798	3,815
Beardmore Drlg. Co. No. 1 Durham	SW SW NE 27-22-13W	1,897	3,427	3,837	3,870
D. R. Lauck Oil Co., Inc., et al. No. 1 McAllister	SW SE NW 32-22-14W	1,965	3,537	4,030	4,057
Rocket Drlg. Co., Inc. No. 1 Hickman	NW NW SW 30-23-11W	1,829	3,372	3,819	3,832
Russell Cobb, Jr., Inc. No. 1 Lydia Thole	NW NE NW 23-23-12W	1,851	3,376	3,816	3,850
*Thunderbird Drlg., Inc. No. 1 Fritzmeier	SE NW NW 25-23-12W	1,847	3,388	3,842	3,862
Stickle Drlg. Co. No. 1 R. G. Dunn	SE SE SE 1-23-13W	1,860	3,386	3,826	3,860
*D. R. Lauck Oil Co., Inc. No. 1 Mawhirter	NW NW NW 2-23-13W	1,866	3,415	3,833	3,840
*Stickle Drlg. Co. No. * Green	SE SE SE 4-23-13W	1,874	3,433	3,848	3,855
*Shields Oil Producers No. 1 Shotton	NW SW NE 4-23-13W	1,898	3,448	3,867	3,882
Stickle Drlg. Co., et al. No. 1 Smolik	NE NE NW 24-23-13W	1,874	3,440	3,908	3,927
Armer Drlg. Co., Inc. No. 1 Kendall	NE NE SE 36-23-14W	1,906	3,560	4,069	4,120
D. R. Lauck Oil Co., Inc. No. 1 Wright	NW NW SE 32-24-12W	1,903	3,572	4,176	4,210
Sunray Mid-Cont. Oil Co. No. 1 Sutton	NW NE NW 9-24-13W	1,916	3,541	4,061	4,092
Phillips Lee Oil Co. No. 1 Gobin	NE NE SW 27-25-13W	1,926	3,695	4,292	4,344
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^{*} No electric or radioactivity logs available. Kansas Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

Killam & Hurd Drilling Company in sec. 18, T. 30 S., R. 42 W., was drilled from a rotary bushing elevation of 3,561 feet above sea level to a total depth of 5,475 feet. The bit encountered the tops of the following marker beds: Topeka limestone at a depth of 3,160 feet; Lansing group, 3,690 feet; Morrowan sand, 5,246 feet; and the Chesteran rocks, 5,410 feet. The second wildcat was completed by the Superior Oil Company on the Burnett lease in the cen. NE¼ sec. 16, T. 29 S., R. 43 W., and the following tops were encountered: Topeka limestone at a depth of 3,274 feet;

Lansing group, 3,682 feet; Morrowan sand, 5,204 feet; and the Mississippian strata, 5,540 feet. Several drill-stem tests were taken, but no shows of oil or gas were reported. The locations of these wildcat wells are shown on Plate 3.

Oil production statistics are given in Table 65, and gas statistics are listed in Table 66. The locations of the areas of oil and gas production are shown on Plate 3.

STEVENS COUNTY (Map Pl. 3)

The 1956 production from 3 fields: gas 102,139,834 thousand cubic feet. Wells drilled in 1956: gas 12, dry wildcats 2, total 14. Fields discovered 2.

Developments during 1956.—Although 2 new gas fields were discovered within the county, production during the year declined by more than 6 percent. Wildcat drilling programs resulted in the completion of 2 dry test wells.

The **Hanke** field was named in May when the Republic Natural Gas Company brought in a well on the Hanke lease in sec. 6, T. 35 S., R. 36 W., and the **Panoma** field was named upon the completion of the Hugoton Production Company No. 2-12 Panoma well in sec. 12, T. 31 S., R. 38 W. The **Hanke** field reported production from the Morrowan strata, and the **Panoma** field reported production from the Council Grove group. Additional information on the discovery wells of these fields is given in Table 6.

Developmental drilling within the Stevens County part of the **Hugoton Gas Area** resulted in the completion of 10 new gas wells. The locations of these wells are shown on Plate 3.

Two deep dry wildcats were drilled within the county during the year. They were both completed by the Northern Natural Gas Company in the northeast part of the county. The No. 1 Boles "G" well in the cen. SW¼ SW¼ sec. 24, T. 32 S., R. 35 W., encountered the tops of the following marker beds: Fort Riley limestone at a depth of 2,772 feet; Heebner shale, 4,196 feet; Lansing group, 4,318 feet; and the Morrowan strata, 5,609 feet. The well was drilled from a rotary bushing elevation of 2,980 feet above sea level to a total depth of 6,265 feet. The No. 1 Stout "A" well in the cen. NE¼ SW¼ sec. 9, T. 32 S., R. 36 W., was drilled from a rotary bushing elevation of 3,069 feet above sea level to a total depth of 6,302 feet. The tops of some significant



marker beds encountered while drilling the well were: Fort Riley limestone at a depth of 2,745 feet; Heebner shale, 4,138 feet; Lansing group, 4,255 feet; and the Morrowan strata, 5,493 feet. The locations of these 2 test wells are shown on Plate 3.

Gas production statistics for the county are listed in Table 66, and the locations of the gas producing areas are shown on Plate 3.

SUMNER COUNTY (Map Pl. 2)

The 1956 production from 44 fields: oil 3,044,872 barrels, gas 2,690,841 thousand cubic feet. Wells drilled in 1956: oil 87, gas 2, gas and oil 1, dry 81, repressuring or salt-water disposal 4, total 175 including 30 dry wildcats. Reworked wells: oil 6, salt-water dis-

posal 1. Fields discovered 4, revived 1, combined 1, abandoned 1.

Developments during 1956.—Oil production from Sumner County increased about 6 percent during the year, and gas production declined about 3 percent. Although drilling activity within the county resulted in the completion of 47 fewer wells during 1956 than during the previous year, 4 new oil pools were discovered.

The Beatie field was named upon the completion of the Gulf Oil Company No. 1 Beatie well in sec. 21, T. 31 S., R. 2 W., and the No. 1 Van Allen well in sec. 5, T. 30 S., R. 2 W., was the discovery well of the Latta Northwest field. Production from the Beatie field was reported from the Simpson strata, and the Latta Northwest field reported production from the Kansas City group. The Meek field was named upon the completion of The Pure Oil Company No. 1 G. C. Meek well in sec. 10, T. 35 S., R. 1 E., and the No. 2 Unruh well drilled by the Southwest Oil Corporation in sec. 28, T. 34 S., R. 1 E., was named the discovery well of the Portland South field. Production from the Meek field was assigned to the "Cleveland" sand, and production from the Portland South field was reported from the "Layton" sand. Additional information on the discovery wells of these fields is given in Table 6.

Developmental drilling within the county resulted in the discovery of new producing zones in 3 old fields. These discoveries were: "Stalnaker" production in the **Bitter Creek** field, Marmaton production in the **Padgett** field, and "Bartlesville" production in the **Rutter** field. Complete data on the discovery wells of these new zones are given in Table 7.



The Ashton East field was revived in April when oil was recovered from the Cherokee rocks by the No. 1 Webster well in sec. 17, T. 34 S., R. 2 E. However, the well failed to produce commercial quantities, and the field was abandoned in September by the Nomenclature Committee. Other action during the year by the committee resulted in the combining of the Rainbow Bend West field in Sumner County with Rainbow Bend field ("Burgess" and Arbuckle production) in Cowley County.

Of the 30 dry wildcat tests drilled within the county during 1956, 10 reported shows of oil and 7 reported shows of gas. The tops of some important marker beds encountered while drilling the wells are listed in Table 61. The locations of these wildcat tests and of the oil and gas producing areas are shown on Plate 2. Oil production statistics are given in Table 65, and gas production statistics are listed in Table 66. Data on 2 secondary recovery projects are given in Table 1.

TABLE 61.—Dry wildcat tests drilled in Sumner County during 1956

			•		
Location	Surface elevation, feet	Depth to top of "Stalnaker" feet	Depth to top of ,Mississip- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
NW NW NE 3-30-1E	1,235	2,370	3,300	3,764	3,825
SE SW SE 30-30-1E	1,244	2,542	3,482		3,530
SW SE SW 5-30-2E	1,229	2,280	3,135	3,585	3,886
SE NE SW 5-30-2E	1,246	2,289	3,144		3,176
SE SE NE 14-30-2E	1,277	2,226	3,105	3,506	3,561
SW SE NE 3-31-1E	1,204	2,741**	3,348		3,425
SW SW SE 14-31-1E	1,231	2,437	3,428	3,917	3,944
NW NW NW 19-31-1E	1,311	2,614	3,630	4,152	4,158
NE NE SW 6-31-2E	1,198	2,348	3,297	3,757	3,810
NW NW NE 15-31-2E	1,182	2,256	3,196	3,636	3,692
SE SE SW 1-33-1E	1,130	2,464	3,467	3,904	3,925
NW NW NE 18-33-2E	1,152	2,425	3,383	3,808	3,834
	NW NW NE 3-30-1E SE SW SE 30-30-1E SW SE SW 5-30-2E SE NE SW 5-30-2E SE SE NE 14-30-2E SW SE NE 3-31-1E SW SW SE 14-31-1E NW NW NW 19-31-1E NE NE SW 6-31-2E NW NW NE 15-31-2E SE SE SW 1-33-1E NW NW NE	Location elevation, feet	Location Surface elevation, "Stalnaker" feet NW NW NE 3-30-1E 1,235 2,370 SE SW SE 30-30-1E 1,244 2,542 SW SE SW 5-30-2E 1,229 2,280 SE NE SW 5-30-2E 1,246 2,289 SE SE NE 1,277 2,226 SW SE NE 3-31-1E 1,204 2,741** SW SW SE 1,231 2,437 14-31-1E 1,311 2,614 NW NW NW 19-31-1E 1,198 2,348 NW NW NE 1,182 2,256 SE SE SW 1,130 2,464 1-33-1E 1,152 2,425	Location Surface elevation, "Stalnaker", Mississip feet feet tóp of peet plan, feet plan, feet NW NW NE 3-30-1E 1,235 2,370 3,300 SE SW SE 30-30-1E 1,244 2,542 3,482 SW SE SW 5-30-2E 1,229 2,280 3,135 SE NE SW 5-30-2E 1,246 2,289 3,144 SE SE NE NE 1,277 2,226 3,105 14-30-2E 1,204 2,741** 3,348 3-31-1E 1,204 2,741** 3,348 3-31-1E 1,311 2,614 3,630 19-31-1E 1,198 2,348 3,297 NW NW NE 1,182 2,256 3,196 15-31-2E SE SE SW 1,130 2,464 3,467 NW NW NE 1,152 2,425 3,383	Location Surface elevation, "Stalnaker", higher feet refect top of flat of point, feet refect top of Mississip- feet refect top of Mississip- feet refect Arbuckle, feet refect NW NW NE 3-30-1E 1,235 2,370 3,300 3,764 SE SW SE SW 5-30-1E 1,244 2,542 3,482 SW SE SW 5-30-2E 1,229 2,280 3,135 3,585 SE NE SW 5-30-2E 1,246 2,289 3,144 SE SE NE 1,277 2,226 3,105 3,506 14-30-2E 1,204 2,741** 3,348 SW SE NE 3-31-1E 1,204 2,741** 3,348 SW SW SE 14-31-1E 1,231 2,437 3,428 3,917 NW NW NW NW NW 19-31-1E 1,198 2,348 3,297 3,757 NW NW NW NW 15-31-2E 1,182 2,256 3,196 3,636 SE SE SW 1-33-1E 1,130 2,464 3,467 3,904 NW NW NW NW 15-32-1E 1,152 2,425 3,383 3,808

Time Petro. Co. No. 1 Creekmore	NE NE SW 19-33-2E	1,172	2,445	3,441	3,860	3,875
Stelbar Oil Corp., Inc. No. 1 Robbins	NW NW NW 4-34-2E	1,155	2,955**	3,414	······	3,430
Laura Jane Oil Co., Inc. No. 1 Reusser	NE NE SW 20-30-1W	1,278	2,672	3,601		3,702
*Franco Central Oil Co. No. 1 Parker	NW NW SW 24-30-1W	1,240	2,528	3,470	3,885***	3,900
*Shawver-Armour, Inc. No. 1 Wightman	SE SE SE 2-30-2W	1,301	2,764	3,714	•••••	3,742
Renfro Drlg. Co. No. 1 Castholm	NW NW SE 24-30-2W	1,306	3,067**	3,727	4,128***	4,136
McKnab Drlg., Inc. No. 1 J. R. Little	SE SE SE 3-30-3W	1,359 .	2,883	3,782	4,365	4,400
Aurora Gasoline Co. No. 1 Lange	SE SE NW 15-30-3W	1,345	2,901	3,818		3,960
Franco Central Oil Co., et al. No. 1 Bonjour	SW SW NW 13-31-1W	1,337	2,685	3,661	4,139	4,142
Western Oil & Gas Co. No. 1 Ast	SE SE NE 9-31-3W	1,360	3,006	3,940	4,446	4,6 00
Tennessee Gas Trans. Co. No. 1 Altman	NW NW NW 34-31-3W	1,312	2,987**	3,958	4,494	4,524
Musgrove Petro. Corp. No. 1 Holiday	NE NE SE 1-32-1W	1,259	2,997**	3,664	4,220	4,248
*Shawver-Armour, Inc. No. 1 Felt *	SE SE NE 33-32-1W	1,264	2,839	3,877	••••••	4,342
Falcon-Seaboard Drlg. Co. No. 1 Pearce	SW SW NE 28-32-4W	1,242		4,125	4,716	4,780
Anschutz Drlg. Co., Inc. No. 1 Priddy	SW SW NW 35-33-1W	1,199	2,830	3,890	4,445	4,473
Carl B. Anderson No. 1 Myrtle Bacon	SW SW SW 13-34-1W	1,162	2,775	3,903	*******	3,997
Herndon Drlg. Co. No. 1 Subera	NW SE SW 22-34-3W	1,194	3,187	4,323	4,794***	4,812
*Herndon Drlg. Co., et al. No. 2 Pratt	W½ NW NW 17-35-2W	1,101		4,324	4,770***	4,782

^{*} No electric or radioactivity logs available. Kan:as Sample Log Service, Independent Oil & Gas Service, and other available data sources have been used.

THOMAS COUNTY

(Map Pl. 3)

The 1956 production from 2 fields: oil 10,759 barrels. Wells drilled in 1956: oil 1, dry wildcats 6, total 7. Fields discovered 1.

Developments during 1956.—Oil production from Thomas County increased by more than 75 percent primarily because of the discovery of the county's second oil pool. A total of 7 wells were drilled within the county during the year, as compared with 2 during 1955.

^{**} Depth to the top of the Lans.-K.C., feet.

^{***} Depth to the top of the Simpson, feet.

The **Kindig** field was named in May when the Bachus Oil Company and the Veeder Cherokee Supply and Development Company brought in the No. 1 Kindig well in sec. 30, T. 8 S., R. 32 W. The well was assigned an initial potential of 401 barrels of oil per day from the Cherokee rocks, and the following tops were encountered while drilling the well: Topeka limestone at a depth of 3,909 feet; Heebner shale, 4,074 feet; Kansas City group, 4,114 feet; Cherokee rocks, 4,557 feet; and Mississippian strata, 4,679 feet. More information on this discovery well is given in Table 6.

A total of 6 rank dry wildcats was drilled in the county during the year, but only 1 reported a show of oil. Complete information on these test wells is given in Table 62. The locations of the wildcat wells and of the oil producing areas are shown on Plate 3. Oil production statistics are listed in Table 65.

TABLE 62.—Dry wildcat tests drilled in Thomas County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Mississ'p- pian, feet	Total depth, feet
Virginia Drlg. Co., Inc. No. 1 Barnett	NW NW SE 8-6-31W	2,965	3,975	4,546	4,715
*Virginia Drlg. Co., Inc. No. 1 Cooper	Cen. NE NE NI 12-7-33W	E 3,092	4,046	4,645	4,695
Natl. Coop. Ref. Assn. No. 1 Wright	SW SW SE 34-7-36W	3,364	4,198	4,871	5,070
Jones, Shelburne & Farmer, Inc. No. 1 Baker	NE NE NW 21-8-33W	3,173	4,135	4,735	4,848
Van-Grisso Oil Co. No. 1 Tousler	NE NE NE 11-9-35W	3,312	4,166	4,829	5,026
George F. Johnston, Jr., No. 1 Flipse	NE NE SE 18-10-32W	3,087	4,035	4,637	4,680

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

TREGO COUNTY

(Map Pl. 3)

The 1956 production from 29 fields: oil 1,469,972 barrels. Wells drilled in 1956: oil 62, dry 70, repressuring or salt-water disposal 1, total 133 including 38 dry wildcats. Reworked wells: oil 1, dry 1. Fields discovered 6, combined 2.

Developments during 1956.—Oil production from Trego County increased by more than 35 percent during the year. In all, 133 well completions were reported during 1956 as compared to 69 during the previous year, and 6 new oil pools were discovered.

The Adair Southwest field (Marmaton production) was named upon the completion of the No. 1 Ridgeway well in sec. 28, T. 12 S., R. 21 W., and the Transit Corporation No. 1 Kroeger well in sec. 36, T. 13 S., R. 21 W., was the discovery well of the Kroeger field (Arbuckle production). The Imperial Oil of Kansas, Inc., drilled the discovery well of the Newcomer field (Lansing-Kansas City production) in sec. 12, T. 12 S., R. 23 W., and the Newcomer Northwest field (Lansing-Kansas City production) was named upon the completion of the No. 1 Hixson well in sec. 2, T. 12 S., R. 23 W. The Century Production Company and K & E Drilling, Inc., brought in the discovery well of the Page Creek field (Cherokee production) on the Tipton lease in sec. 28, T. 15 S., R. 2 W., and the **Rhoden** field (Lansing-Kansas City production) was named upon the completion of the No. 1 Rhoden "A" well in sec. 24, T. 12 S., R. 23 W. Additional information on these discovery wells is given in Table 6.

Action by the Nomenclature Committee resulted in 2 combinations during the year. The Ellis Northeast field (Ellis County) and the Ellis South field were combined with the Ellis field (Arbuckle and Reagan production) in December. A second combination joined Groff Southeast with the Groff field in August.

Of the 38 dry wildcats drilled within the county during the year, 10 reported shows of oil and 1 reported a show of gas. Specific data on the wildcat wells are given in Table 63. The locations of these wells and of the oil producing areas are shown on Plate 3. Oil production statistics for the county are listed in Table 65.

TABLE 63.—Dry wildcat tests drilled in Trego County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of LansK.C., feet	Depth to top of Arbuckle, feet	Total depth, feet
Petroleum, Inc. No. 1 Armbrister	SE SE NW 6-11-21W	2,149	3,449	3,830	3,850
*Bell Oil & Gas Co. No. 1 Osborn	NE NE SW 7-11-21W	2,129	3,424		3,859
K & E Drlg., Inc., et al. No. 1 Madden	SW SW NE 15-11-21W	2,160	3,486	3,799	3,833
Jones, Shelburne & Farmer, Inc., et al. No. 1 Miller	NE NE SE 34-11-21W	2,301	3,605	3,976	4,005
Bachus Oil Co., et al. No. 1 Pyne	NE NE NW 13-11-22W	2,186	3,472	3,865	3,910

0.00		<i>p</i> ,			
Aurora Gasoline Co. No. 1 Walker	SE SE SE 8-11-24W	2,403	3,760	4,320**	4,339
Aurora Gasoline Co., et al. No. 1 Owens	SW SW SW 15-11-24W	2,455	3,826	4,375**	4,425
Theodore Gore No. 1 Schwanbeck	SE SE NE 32-11-24W	2,533	3,904	4,460**	4,510
*K & E Drlg., Inc., et al. No. 1 Baldwin	NE NE NE 35-11-24W	2,472	3,845	•••••	4,105
Theodore Gore No. 1 Barnes	SE SE NE 10-11-25W	2,382	3,735	4,270**	4,352
Amerada Petro. Corp. No. 1 M. A. Bellairs	SE SE NE 18-12-22W	2,395	3,681	4,118	4,175
*Imperial Oil of Kansas, Inc. No. 1 Hille	NW NW NE 20-12-22W	2,424	3,694	4,155	4,187
Anschutz Drlg. Co., Inc. No. 1 Staab	SE SE NW 20-12-22W	2,413	3,684	4,096	4,148
*Imperial Oil of Kansas, Inc. No. 1 Dewald	NE NE SE 31-12-22W	2,339	3,733	4,465	4,481
Mai Drlg. No. 1 Surmeier	SE SW NW 8-12-23W	2,446	3,809	4,531	4,585
Imperial Oil of Kansas, Inc. No. 1 Deines	NW NW SE 22-12-23W	2,402	3,700	4,337	4,380
Jones, Shelburne & Farmer, Inc. No. 1 Heyl	30-12-23W	2,381	3,753	4,430	4,470
*Imperial Oil of Kansas, Inc. No. 1 Satran	SE NE SE 36-12-23W	2,358	3,744	4,468	4,495
Imperial Oil of Kansas, Inc. No. 1 Osborne "B"	NW NW NE 1-12-24W	2,438	3,798	4,546	4,593
Theodore Gore No. 1 Struss	SE SE SW 2-12-24W	2,475	3,852	4,419**	4,443
Bell Oil & Gas Co. No. 1 Glass	SW SE NE 9-13-21W	2,197	3,496	3,917	3,960
Strata Drlg., Inc. No. 1 Bollig	SE SE NE 21-13-21W	2,281	3,604	3,996	4,015
Imperial Oil of Kansas, Inc. No. 1 Lang	SE SE SE 24-13-21W	2,273	3,570	3,935	3,998
Anschutz Drlg. Co., Inc. No. 1 Mulheim	SE SE SE 32-13-22W	2,375	3,795	4,534	4,550
Theodore Gore No. 1 Delaney	NW NW NE 7-13-23W	2,474	3,810	4,370	4,415
Coop. Ref. Assn., et al. No. 1 Madden "A"	SW SW NW 17-14-21W	2,210	3,547	4,041	4,060
Rex & Morris Drlg. Co., et al. No. 1 Saleen	NE NE NE 3-14-22W	2,321	3,731	4,413	4,455
Aurora Gasoline Co., et al. No. 1 Wasinger	C NW SW 24-14-22W	2,179	3,595	4,115**	4,165
Bennett & Roberts Drlg. Co. No. 1 Kline	N½ NW SE 19-14-24W	2,348	3,605	4,454	4,515
Welch & Olsson Drlg. Co., Inc. No. 1 Schuster	NE NE SE 8-15-21W	2,252	3,658	4,175**	4,211
Welch & Olsson Drlg. Co., Inc. No. 1 North	SW SW SW 24-15-21W	2,291	3,729	4,294	4,320
Anschutz Drlg. Co., Inc. No. 1 Kranz	SW SW NW 33-15-21W	2,395	3,803	4,446	4,502



Don E. Pratt, et al. No. 1 D. K. North A-1	NE NE NE 36-15-21W	2,317	3,764	4,350	4,427
Don E. Pratt No. 1 D. K. North	NW NW SW 36-15-21W	2,290	3,749	4,358	4,395
Welch & Olsson Drlg. Co., Inc. No. 1 Lecuyer	NW SE SW 11-15-22W	2,199	3,590	4,255	4,275
Parker Petro. Co., Inc. No. 1 Beason	NW NW SE 35-15-22W	2,425	3,854	4,388	4,44 6
Jones, Shelburne & Farm- er, Inc. No. 1 Kraft	NW NW NW 8-15-23W	2,288	3,673	4,521	4,555
Imperial Oil of Kansas, Inc. No. 1 Plath	NE NE NE 36-15-24W	2,383	3,779	4,686	4,735

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

WABAUNSEE COUNTY (Map Fl. 1)

The 1956 production from 5 fields: oil 323,838 barrels. Wells drilled in 1956: oil 1, dry 4, total 5 including 3 dry wildcats.

Developments during 1956.—Reported oil production in Wabaunsee County in 1956 was more than double that of 1955, when 153,321 barrels was reported. With the development of a steady market for oil from the **Davis Ranch** field, production from 18 wells rose to 254,228 barrels during 1956.

Three dry wildcat tests were reported in 1956. The Carter Oil Company No. 1 Ida M. Stitt in the SW¼ SW¼ SE¼ sec. 12, T. 15 S., R. 9 E., was abandoned as a dry hole in September at a total depth of 3,210 feet. Scout-report tops recorded from an elevation of 1,418 feet above sea level are: Lansing group, 1,568; Kansas City group, 1,724; base of Kansas City, 1,936; Mississippian rocks, 2,522; "Kinderhookian" strata, 2,818; "Hunton" limestone, 2,962; and Viola limestone, 3,163 feet. No shows of oil or gas were reported. Anschutz Drilling Company, Inc., drilled the No. 1 Wingfield in the NE¼ SW¼ NE¼ sec. 14, T. 15 S., R. 10 E., to a total depth of 3,428 feet in September. Reported elevation was 1,480 feet above sea level. Important marker beds encountered in drilling are: Lansing group, 1,756; base of Kansas City group, 1,966; Mississippian chert, 2,627; Mississippian limestone, 2,640; "Hunton" limestone, 3,129; Viola limestone, 3,273; and Simpson group, 3,359 feet. No shows were reported. The third rank wildcat test, also drilled by the Anschutz Drilling Company, Inc., was located on the Jones lease in the SE¼ SE¼ NE¼ sec.



^{**} Depth to the top of the Mississippian, feet.

16, T. 15 S., R. 11 E. The hole was drilled in September from an elevation of 1,387 feet above sea level to a total depth of 3,260 feet. Tops reported are: Lansing group, 1,592; Mississippian chert, 2,458; Mississippian limestone, 2,472; "Hunton" limestone, 2,976; Viloa limestone, 3,106; Simpson group (dolomite), 3,183; Simpson group (sand), 3,202; and Arbuckle dolomite, 3,236 feet. A show of oil was reported at the base of the Viola limestone.

One oil well was completed in the **Davis Ranch** field during 1956, the Carter Oil Company No. 13 Davis "A" in sec. 33, T. 13 S., R. 10 E. A dry hole was drilled in the **Woodbury** field by the Adkins Drilling Company.

Oil production statistics are listed in Table 65. Locations of areas from which oil was produced in Wabaunsee County in 1956 and of dry wildcat tests are shown on Plate 1.

WALLACE COUNTY

(Map Pl. 3)

Wildcat wells have been drilled in Wallace County from time to time, but as yet production of oil or gas in commercial quantities has not been reported.

Exploration during 1956.—In August, the Skelly Oil Company completed a well on the Sexson lease in sec. 19, T. 13 S., R. 42 W., and after it was assigned an initial potential of over 14 million cubic feet of gas per day, the well was named the discovery well of the Sexson field. Because no pipe-line connections were available, the well was shut-in, and hence, no production has been reported from the field as yet. Additional information on this discovery well is given in Table 6.

Other exploratory drilling resulted in the completion of 2 dry wildcat tests. The Van Grisso Oil Company completed a test well on the Frazier lease in the cen. NW¼ NE¼ sec. 15, T. 15 S., R. 39 W. Drilled from a rotary bushing elevation of 3,591 feet above sea level to a total depth of 5,260 feet, the well penetrated the tops of the following marker beds: Heebner shale at a depth of 4,092 feet; Lansing group, 4,150 feet; Cherokee rocks, 4,782 feet; Morrowan sand, 4,952 feet; and the Mississippian strata, 5,137 feet. A drill-stem test at a depth of 4,951 feet to 5,000 feet recorded a show of gas cut mud. A second test well was completed by the Sierra Petroleum Company and the Ambassador Company on

the Meyer-Peterman lease in the cen. NW¼ sec. 15, T. 14 S., R. 42 W. Drilled from a rotary bushing elevation of 3,886 feet above sea level, the well encountered the tops of the following marker beds: Lansing group at a depth of 4,222 feet; Morrowan rocks, 5,078; and the Mississippian strata, 5,140 feet. A drill-stem test failed to produce a show of oil or gas.

The locations of the county's 2 wildcat test wells are shown on Plate 3.

WICHITA COUNTY (Map Pl. 3)

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

Exploration during 1956.—Two dry wildcats were completed within the county during 1956; both were drilled by the Musgrove Petroleum Company. The No. 1 Langley well in the cen. NW½ sec. 12, T. 17 S., R. 38 W., was drilled from a rotary bushing elevation of 3,331 feet above sea level to a total depth of 5,164 feet. The tops of some significant marker beds encountered while drilling the well were: Topeka limestone at a depth of 3,774 feet; Heebner shale, 3,971 feet; Lansing group, 4,065 feet; Marmaton rocks, 4,436 feet; and Mississippian strata, 4,956 feet. No shows of oil or gas were reported.

The No. 1 Mantel well was completed in the cen. SW¼ SE¼ sec. 33, T. 18 S., R. 36 W. Drilled from a rotary bushing elevation of 3,266 feet above sea level to a total depth of 5,040 feet, the well penetrated the tops of the following marker beds: Topeka limestone at a depth of 3,733 feet; Heebner shale, 3,927 feet; Lansing group, 3,995 feet; Marmaton rocks, 4,525 feet; and the Mississippian strata, 4,940 feet. A drill-stem test reported a show of gas cut mud between the depths of 2,757 feet to 2,787 feet.

The locations of these new wildcat wells are shown on Plate 3.

WILSON COUNTY (Map Pl. 1)

The 1956 production from 39 areas in 12 fields: oil 172,836 barrels including approximately 39,648 barrels from secondary recovery projects, gas 280,135 thousand cubic feet. Wells drilled in 1956 (estimated): oil 54, dry 32, repressuring 40, total 126 including 7 dry wildcats.



Developments during 1956.—Oil production from Wilson County fields during 1956 was slightly less than in 1955, when 187,047 barrels was reported.

There was considerable wildcat activity in western Wilson County during 1956. Most of the tests were taken into the Arbuckle dolomite. No specific shows of oil were reported. Additional data on this development are given in Table 64. Two other wells which should be mentioned in considering deep drilling are the Ventures, Inc., No. 1 Ridlon in the SE¼ SE¼ NW¼ sec. 15, T. 27 S., R. 14 E., in the Coyville field, which topped the Arbuckle dolomite at 1,766 feet; and the Walter F. McGinnis No. 1 Blinn test in the NE¼ NW¼ NE¼ sec. 26, T. 28 S., R. 13 E., which topped the Arbuckle dolomite at 1,534 feet, in the Fall River field.

Oil production statistics for Wilson County are listed in Table 65, gas in Table 66. Locations of areas from which oil was produced in 1956 and of dry wildcats are shown on Plate 1. Data on secondary recovery are given in Table 1.

Table 64.—Dry wildcat tests drilled in Wilson County during 1956

Company and farm	Location	Surface elevation, feet	Depth to top of Mississip- pian, feet	Depth to top of Arbuckle, feet	Total depth, feet
*Ventures, Inc., et al. No. 1 Jeffery	NW NW NE 8-27-14E	879	1,316	1,644	1,650
*Ventures, Inc., et al. No. 1 Lyon	SW NW NW 3-28-14E	979	1,359	1,661	1,674
*L. D. Sargent, et al. No. 1 G. Ingstrom	SE SE NW 12-23-14E	1,884	1,197	1,480	1,492
* (Unknown) No. 1 Nixon	NE NE NE 24-29-13E	1,165	1,670	2,000	2,090
Nix, Inc. No. 1 Frey	NW NW SE 14-30-14E	933	1,232	282**	1,274
*Aladdin Petro. Corp. No. 1 Stryker	SW SW SE 16-30-14E		1,396	1,672	1,695
Aladdin Petro. Corp. No. 1 Schultz	NW NW NE 24-30-14E	923	1,335	1,640	1,644

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

WOODSON COUNTY (Map Fl. 1)

The 1956 production from 35 areas in 23 fields: oil 998,680 barrels including approximately 295,996 barrels from secondary re-



^{**} Depth to the top of the Lansing, feet.

covery projects, gas 203,192 thousand cubic feet. Wells drilled in 1956 (estimated): oil 128, gas 1, dry 63, repressuring 46, total 238 including 4 dry wildcats. Fields discovered 3, combined 3.

Developments during 1956.—Woodson County oil production in 1956 was appreciably greater than in 1955, when 861,764 barrels was reported. Estimated gas production for 1956 was double that of 1955.

The Annabelle field was opened when Thunderbird Drilling, Inc., found oil in the No. 1 Corkery well in sec. 32, T. 25 S., R. 15 E., in November. An initial potential of 25 barrels per day was assigned the "Squirrel" sand at a depth of 1,173 to 1,178 feet in the discovery well. The Gordon and Rose East fields were officially named in 1956, but have been active since 1954. The Joe Phillips and others No. 1 Gordon well in sec. 13, T. 34 S., R. 15 E., is listed as the discovery well of the Gordon field. In January 1954, an initial potential of 1,500,000 cubic feet of gas per day was assigned the "Squirrel" sand at a depth of 1,080 to 1,096 feet. In August 1954, the St. Croix Oil Company and others found 22 barrels of oil per day from the "Bartlesville" sand at a depth of 1,109 to 1,124 feet in their No. 2 McGregor well, the discovery well of the Rose East field, in sec. 16, T. 26 S., R. 16 E. Additional data on the discovery wells of these new fields are given in Table 6.

The "Squirrel" sand at a depth of 1,068 to 1,074 feet in the Peters Drilling Company and others No. 1 Glade well in sec. 33, T. 23 S., R. 16 E., was named a new producing zone in the old **Vernon** field. The well, completed in September, was given an initial potential of 25 barrels per day. Data on this development are given in Table 7.

During 1956 the Hoagland and Weide fields were combined with the Winterscheid field, now designated the Winterscheid field. The Neosho Falls field was combined with the Leroy field (Coffey County), now called the Neosho Falls-Leroy field.

Four dry wildcat tests were drilled in Woodson County during 1956. The C. A. Black No. 1 Pemberton was located in the SW¼ SW¼ SE¼ sec. 30, T. 25 S., R. 15 E. It was drilled from an elevation of 999 feet above sea level, and the following tops were called: base of Kansas City, 711; Fort Scott limestone, 1,032; reworked Mississippian limestone, 1,408; and Mississippian limestone, 1,422 feet. Total depth was recorded as 1,472 feet. The John Hanna wildcat test on the Barnes lease in the NE¼ NW¼ NE¼



sec. 30, T. 25 S., R. 16 E., reached the total depth of 1,370 feet before abandonment. The top of the Mississippian strata was called at 1,335 feet. The T.E.C. Drilling Company No. 1 Clauers well was located in the NE¼ SW¼ SW¼ sec. 30, T. 25 S., R. 16 E. The Mississippian rocks were encountered at 1,320 feet, and abandonment was at a total depth of 1,362 feet. The Sennett Oil Company No. 1 Allen test in the NE¼ NE¼ NE¼ sec. 9, T. 26 S., R. 14 E., reached the top of the Mississippian rocks at 1,515 feet, and the total depth recorded was 1,532 feet.

Data on secondary recovery operations in the county are listed in Table 1. Oil production is listed in Table 65, gas in Table 66. Locations of areas from which oil was produced in 1956 and of dry wildcat tests are shown on Plate 1.

WYANDOTTE COUNTY (Map Pl. 1)

The 1956 production: gas 1,688 thousand cubic feet. Two wells drilled in 1956 (estimated).

Developments during 1956.—It is estimated that 2 gas wells were completed in Wyandotte County during 1956. The reported gas production is from the **Roberts-Maywood** field, which extends into Leavenworth County. The county's gas production is listed in Table 66.



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1956
during
Kansas
tion in
produc
65.—Oil
TABLE 6
_

			Oil production. bbls.	,		Producing zone, ft.	zone, ft.		
Field name and	Discovery well	Area.		· Pro-	Wells abd			Thick-	Aver.
year of discovery	location	acres	during 1956 to end, 1956	wells	1926	Name	Depth	ness	grav.
			ALLEN COUNTY						
Bronson-Xenia*	17-25-21E			236	7	"Bartlesville"	200	18	
e Q		2,560 480	224,730 3.068						
Colony West* ('22)	15-23-18E					"Squirrel"	820		
ផ្		640	1,861	34		•			
Davie Brancon*	94 94	040	1,46/	-		" I. U.	Š	4	
Davis-Di Olisoli	717-47	ć		,		partiesville	9	Ç.	
e Q		1,540	640 13,867	35 °					
Elsmore Shoestring ('08)	5-26-21E	1,630	40,743	97		'Bartlesville"	650	24	
Elsmore West ('11)	12-26-20E			22		"Bartlesville"	775	20	
เช		160	2,936						
p,		160	294						
ပ		320	498						
Humboldt-Chanute*	26-18E			891	12	"Bartlesville"	820		
c c .		8	5,968						
p		12,200	257,618						
٠ -		1,800	79,514						
U		400	6,084						
Φ.		200	719						
⊷ t		202	266						
. (<u>. 1</u>	101	1,600	21,170	Č	•		ì		
TOTAL	74-18E	007	700	8/2	3	"Bartlesville"	25		
rd -		2,400	142,981						
Q		240	5,641						
0		4	301						
ಶ		₽	785						
Φ.		4 :	682						
₩		9	163						
50 -		4	2,162						
u		120 5	828						
•		3	2,578						

			4.	33 88
			20 15	35
820	965 1,200	089	620 480 600 780	825 700 800
"Bartlesville"	"Squirrel" Mississippian	"Bartlesville"	"Squirrel" "Bartlesville" "Weiser" "Squirrel"	"Squirrel" "Squirrel" "Garnett"
		188	2 11	10
51	-Leroy 13	7 1,736	775 79 184	113
	Now called Neosho Falls-Leroy 13 3,022 156 535 194	18,507,201 recorded	COUNTY	
17,618 509 260 1,801	3,022 3,022 156 535 194	1,367 804 142 844,728	420,297 420,297 986 45,323 13,192 3,349 4,216 45,743 2,426 69 1,912	26,060 54,677 2,831 1,762 2,971 2,520 397
80 40 160	N 04 04 04 04 04 04 04 04 04 04 04 04 04	400 80 40 27,990	•	210 1,100 160 160 640 320 40
25-20E	29-23-17E 35-22-16E	5-26-20E	28-20-21E 10-21-22E 4-23-19E	15-23-18E 32-20-20E
Moran ('03) a b c c	Neosho Falls* ('28) Neosho Falls-Leroy* ('05) a b c c	Seibert a b Miscellaneous Total Allen County	Bush City Shoestring ('21) a b Centerville* ('20) Colony-Welda ('16) b c c d d e e f	h Colony West* ('22) Garnett Shoestring ('04) a b c d d

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Table 65.—Oil production in Kansas during 1956, continued

	i		Oil produc	Oil production, bbls.			Producing zone, ft.	zone, ft.		
Field name and year of discovery	Discovery well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956		Name	Depth	Thick- ness	Aver. grav.
Kincaid ('21)	10-23-21E	640	11,697		78		"Bartlesville"	750	12	
Selma ('29) Miscellaneous	9-22-21E	320	4,925 12,501 751		28 6		"Bartlesville"	700	22	
Total Anderson County		8,810	658,605	17,701,758 recorded	1,446	13				
·			BARBER COUNTY	COUNTY						
Amber Creek ('52)	36-30-12W	88	4,858	13,421	8	_	Mississippian	4,296		30
Amber Mills ('51) P_{100000} ('55)	15-30-12W	6	no report	none	c		Viola	4,480	06	
D100III (55)	63-36-16W	8	6,020	666,21	7		Mississippian Simpson	4,510	န္က က	
Boggs ('46)	17-33-12W	Ň	w called Me	Now called Medicine Lodge-Boggs	e-Boggs		•			
-	30-33-12W	1,000	10,146	10,146	14		Mississippian	4,456		
Brooks-Younger ('55)	23-32-13W	8	15,503	18,691	~		Mississippian	4,423	S.	
Clara* ('48)	36-29-14W	9	2,930	71,731	-		Simpson	4,472		
Deerhead ('43)	22-32-15W	8	63,671	938,027	ឧ		Viola	4,950	G	83
DeGeer ('48)	2-33-15W	640	246	755,590	16	-	Viola	5,176	10	40.18
Donald ('46)	33-31-15W	& ₹	2,914	5,112	ຕ່		Mississippian	4,697		
Driftwood (56)	1-34-13W	S	nbined with	Combined with Boggs Sout	hwest					
	17-32-12W	320	44,023	46,655	2		Mississippian	4,436	9	
こ	29-32-10W	8	1,949	3,111	7		Mississippian	4,433	2	
_	10-35-10W	8	2,288	7,969	-		Viola	5,152	9	
Hardtner ('54)	31-34-12W	2	54,774	59,218	31		Mississippian	4,782	9	
Highway ('56)	14-32-11W	\$	5,591	5,591	-		Douglas	3,587	16	
Lake City ('37)	7-31-13W		no report	307,865			Viola	4,435		
							Simpson	4,530		
Landis ('55) Little Bear Creek ('54)	21-34-11W 12-32-14W	\$ %	1,117	2,584	⊣ €	-	Mississippian Douglas	4,630 808 808 808	10	22
		}			,		Viola	4,670	9	
McGuire ('56)	24-32-11W	49	212	212	-		Mississippian	4,403	8	

Application	Medicine Lodge-Boggs ('37)	13-33-13W	4,200	485,351	3,313,874	28		Marmaton	4,664	18	37	
dge North ('54) 25-32-13W 320 52,559 90,532 9 Mississippian 4,896 13 disesciplian 4,896 13 li3-32-12W 80 83 848 2 Douglas 3,659 9 li3-32-14W 5,700 945,745 3,399,951 132 Mississippian 4,589 13 li3-32-10W 320 21,340 1,577 1 Mississippian 4,579 4,500 13-32-10W 4,000 68,975 1,985,561 19 3 Viola 4,375 10 li3-32-14W 4,000 68,975 1,985,561 19 3 Viola 4,375 li4-39-15W 40 13,349 1,577 1 LansK.C. 4,345 li4-39-14W 8,000 102,439 3,270,085 27 3 "Char" 132-32-14W 120 6,504 12,341 1 Douglas 3,746 lians-ex ('55) 11-32-12W 40 3,104 13,389 1 Douglas 3,746 lians-ex ('55) 25-31-12W 120 6,504 12,241 4 Mississippian 4,229 11 lians-ex ('54) 11-32-12W 40 3,104 13,389 1 Douglas 3,746 lians-ex ('55) 25-31-12W 120 6,504 12,241 4 Mississippian 4,229 11 lians-ex ('54) 11-32-12W 40 3,500 10,764 11 Mississippian 4,239 11 lians-ex ('55) 25-31-12W 120 6,504 12,241 4 Mississippian 4,239 11 lians-ex ('55) 25-31-13W 80 1,222 4,76500 80 3 Lans-ex ('55) 3,399 lians-ex ('73) 10-17-13W 2,000 178,886 1,696,786 29 1 Lans-ex ('73) 11-19-14W 80 1,222 4,775 0 1 Lans-ex ('73) 11-19-14W 80 1,222 4,775 0 1 Lans-ex ('74) Arbuckle 3,737 Arbuckle								Mississippian	4,485	9		
dge North (34) 25-32-13W 320 52,559 90,532 9 Rississippian 4,806 13 dge Southwest (54) 6-34-13W 80 115 115 2 Mississippian 4,806 13 (51) 13-33-12W 80 93 246 2 Douglas 3,659 (51) 13-33-12W 40 45,745 3,399,951 13 Mississippian 4,806 (51) 15-33-14W 5,700 945,745 3,399,951 13 Mississippian 4,551 1 54) 11-35-15W 40 no runs 1,577 1 Mississippian 4,382 10 55) 13-32-10W 40 1,573,305 1 3 Viola 4,375 10 5) 11-32-15W 40 1,573,305 1 Mississippian 4,385 10 41) 11-32-15W 40 1,4304 1,573,305 1 LansK.C. 4,345 26 54 (4								Misener	4,845			
dge North (54) 25-32-13W 320 55,559 90,532 9 Mississippian 4,480 13 dge Southwest (54) 6-34-13W 80 115 115 2 Mississippian 4,489 13 380								Simpson	4,806			
dge Southwest ("54) 6-34-13W 80 115 115 2 Mississippian 4,889 ("51) 13-33-12W 80 93 246 2 Douglas 3,659 ("51) 13-33-12W 80 93 246 2 Douglas 3,539 ("51) 13-32-13W 5,700 945,746 3,399,951 12 Cherokee 4,791 4 ("51) 11-33-11W 5,70 945,746 3,399,951 12 Cherokee 4,791 4 ("54) 11-33-10W 32 21,928 28,659 4 Mississippian 4,382 21 ("54) 11-33-10W 32 21,928 28,659 4 Mississippian 4,382 21 ("54) 11-32-14W 4,000 68,977 1,983,661 1 3,710 9,425 3,5078 1 1,342 26 ("43) 20-30-15W 40 426 56,078 1 2,345 26 1,345	Medicine Lodge North ('54)	25-32-13W	320	52,559	90,532	6		Mississippian	4,480	13		
(51) 13-33-12W 80 83 246 2 Douglas 3,659 4 7791 4 15-33-11W 5,700 945,745 3,399,951 132 Cherokee 4,791 4,551 11-35-15W 40 no runs 1,577 1 Mississippian 4,892 21 Mississippian 4,355 10 Mississippian 4,355 10 11-33-10W 40 230 21,928 28,659 4 Mississippian 4,355 10 Mississippian 4,355 10 11-33-10W 40 88,975 1,958,561 19 3 Viola 4,422 11 10 11 11 11 11 11 11 11 11 11 11 11	Medicine Lodge Southwest ('54		80	115	115	7		Mississippian	4,889			
1.33-15W	Nippawalla ('51)	13-33-12W	08	63	246	2		Douglas	3,659			
(47) (34) (37.6) (945,745 (3.399,951 132 Mississippian 4,551 132 Mississippian 4,551 132 Mississippian 4,551 132 Mississippian 4,551 132 (3.3-11) Mississippian 4,551 10 11-35-15W 40 no runs 1,577 1 Mississippian 4,552 10 Mississippian 4,552 11 Mississippian 4,552 11 Mississippian 4,552 11 Mississippian 4,554 11 Mississippian 4,554 10 Mississi	Dlatt ('56)	28-33-15W	40	803	803	-		Cherokee	4 791	V		
54) 11-35-15W 40 no runs 1,577 1 Mississippian 4,982 21 thwest ('56) 11-32-10W 320 21,928 28,659 4 Mississippian 4,375 10 31-32-10W 320 21,928 28,659 4 Mississippian 4,387 10 31-32-10W 40 350 350 1 Mississippian 4,387 10 31-32-14W 40 0,00 68,975 1,958,61 19 3 Viola 4,822 7 31-32-14W 120 9,427 66,628 3 Simpson 4,327 10 31-32-14W 40 3,104 1,53,365 1 LansK.C. 4,345 26 41) 35-30-15W 40 3,104 1,53,365 1 LansK.C. 4,345 26 42,53 17-30-15W 40 3,104 1,389 1 LansK.C. 4,345 26 43,64 11-32-12W 40 3,104 1,389 1 Penn. congl. 4,541 12 44,54 11-32-12W 40 2,500 10,764 1 Mississippian 4,284 8 43,65 25-31-12W 120 6,504 12,241 4 Mississippian 4,284 8 43,65 3,20 11,73,995 4,376,500 60 3 LansK.C. 3,103 31-30-15W 40 3,429 4,765 2 LansK.C. 3,103 31-30-18W 40 3,429 4,770 1 LansK.C. 3,103 31-30-15W 40 3,429 4,770 1 L	Phodes ('40)	15_33_11W	2 700	945 745	3 399 951	139		Mississinnian	4 551	۲	96 3	
54) 11-35-15W 40 no runs 1,577 1 Mississippian 4,982 21 thwest ('56) 13-32-10W 320 21,928 28,659 4 Mississippian 4,780 4,780	Milones (49)	W11-00-01	6,100	1.340	100,000,0	107		Viola	4.803		20.5	
thwest ('56) 13-32-10W	Salt Fork ('54)	11-35-15W	40	no runs	1,577	1		Mississippian	4,982	21	22	
5) 13-32-10W 320 21,928 28,659 4 Mississippian 4,355 10 thwest ('56) 11-33-10W 4,0 350 15,0 1 Mississippian 4,347 10 35-31-14W 4,000 68,975 1,958,561 19 3 Viola 4,222 38 Simpson 4,342 10 35-30-15W 640 14,304 1,573,305 7 LansK.C. 4,344 26 4,349 12 35-30-15W 40 3,104 13,389 1 Penn. congl. 4,432 27 ('43) 21-31-11W 40 102,439 3,270,085 27 3 "Chat" 4,338 22-31-11W 40 2,500 10,764 1 1 Mississippian 4,229 11 Mississippian 4,229 11 Mississippian 4,229 11 41-19-14W 80 1,222 47,050 2 LansK.C. 3,374 8 Arbuckle 3,390 Arbuckle 3,390 Arbuckle 3,347 8 Arbuckle 3,347 8 Arbuckle 3,474 8 Arbuckle 3,347 Arbuckle 3,360 Arbuckle 3,378 Arbuckle 3,37								Marmaton	4,780			
thwest ('56) 11-33-10W 40 350 350 1 Mississippian 4,347 10 4,000 68,975 1,98,561 19 3 Viola 4,626 38 3 Simpson 4,422 4,422 5.31-14W 4,000 68,975 1,958,561 19 3 Viola 4,626 38 5.30-15W 640 14,304 1,573,305 7 LansK.C. 4,344 ek ('43) 20-30-15W 40 3,104 13,389 1 LansK.C. 4,345 27 3 "Chat" 4,315 27 3 "Chat" 4,325 27 3 "Chat" 4,315 27 3 "Chat" 4,325 27 3 "Chat" 4,315 27 3 "Chat" 4,316 25-31-12W 40 2,500 10,764 1 1 Mississippian 4,284 8 4 3,320 4 1,332-12W 40 1,934,933 16,054,738 372 12 Arbuckle 3,339	Sharon* ('55)	13-32-10W	320	21,928	28,659	4		Mississippian	4,355	10		
3) 29-31-14W 4,000 68,975 1,958,561 19 3 Viola 4,626 38 41) 7-32-14W 120 9,427 60,628 3 Simpson 4,422 426 56,078 1 LansK.C. 4,344 4,394 1,573,305 7 LansK.C. 4,345 26 43. 20-30-15W 40 4,26 56,078 1 LansK.C. 4,345 26 44. 32-31-11W 8,000 102,439 3,270,085 27 3 "Chat" 4,541 12 45. 21-31-11W 40 3,270,085 27 3 "Chat" 4,541 12 46. 56,04 12,241 4 Mississippian 4,229 11 47. 55	Sharon Northwest ('56)	11-33-10W	40	320	320	-		Mississippian	4,347	10		
(442) 7-32-14W 120 9,427 60,628 3 Simpson 4,422 5.7 5.7 5.30-15W 640 14,304 1,573,305 7 1 1.2 5.30-15W 640 14,304 1,573,305 7 1 1.2 5.30-15W 640 14,304 1,573,305 7 1 1.2 5.30-15W 640 10,2439 1 1 1.2 5.31-11W 600 10,2439 3,20,085 27 3 "Chat" 4,338 11 4 1.32-12W 40 2,500 10,764 1 1 Mississippian 4,229 11 4 Mississippian 4,229 11 4 1.32-12W 40 2,500 10,764 1 1 Mississippian 4,229 11 1.32-12W 40 2,500 10,764 1 1 Mississippian 4,229 11 4 Mississippian 4,229 11 4 Mississippian 4,229 11 1.32-12W 2.000 173,327	Skinner ('43)	29-31-14W	4,000	68,975	1,958,561	19	က	Viola	4,626	38	30	
1) 7-32-14W 120 9,427 60,628 3 Simpson 4,963 7 41) 35-30-15W 640 14,394 1,573,305 7 LansK.C. 4,344 24,345 26 ek ('43) 20-30-15W 40 3,104 13,389 1 LansK.C. 4,345 26 ek North ('52) 17-30-15W 40 3,104 13,389 1 Penn. congl. 4,541 12 th west ('54) 11-22-12W 40 2,500 10,764 1 Mississippian 4,229 11 st ('55) 25-31-12W 40 2,500 10,764 1 Mississippian 4,284 8 ds abandoned 25-31-12W 40 2,500 10,644,738 372 12 Arbuckle 3,39 arber County 27,840 1,934,933 16,054,738 372 12 Arbuckle 3,39 south ('37) 10-17-13W 2,000 1,734,995 4,376,500 60 3								Simpson	4,422			
41) 35-30-15W 640 14,304 1,573,305 7 LansK.C. 4,344 6k (43) 20-30-15W 40 426 56,078 1 LansK.C. 4,345 26 Simpson 4,438 Simpson 4,438 Simpson 4,438 17-30-15W 40 3,104 13,389 1 Penn. congl. 4,541 12 t (54) 21-31-11W 40 2,500 10,764 1 Mississippian 4,229 11 t (25) 25-31-12W 120 6,504 12,241 4 Mississippian 4,229 11 srber County 27, 10-17-13W 2,000 1,344,352 12	Stumph ('52)	7-32-14W	120	9,427	60,628	က		Simpson	4,963	7		
ek ('43) 20-30-15W 40 426 56,078 1 LansK.C. 4,345 26 ek North ('52) 17-30-15W 40 3,104 13,389 1 Penn. congl. 4,438 ek North ('52) 17-30-15W 40 3,104 13,389 1 Penn. congl. 4,438 t ('54) 22-31-11W 8,000 102,439 3,270,685 27 3 "Chat" 4,355 27 st ('55) 22-31-12W 40 2,500 10,764 1 1 Mississippian 4,229 11 st ('55) 25-31-12W 40 2,500 10,764 1 1 Mississippian 4,229 11 arber County 27,840 1,934,933 16,054,738 372 12 BARTON COUNTY South ('37) 10-17-13W 2,000 173,995 4,376,500 60 3 LansK.C. 3,390 14-19-14W 80 1,222 47,050 2 LansK.C. 3,390 14-19-14W 80 1,222 47,050 2 LansK.C. 3,393 22-18-11W 80 2,198 1,696,786 29 1 LansK.C. 3,474 8 19-18-11W 40 3,429 45,770 1 LansK.C. 3,348 Arbuckle 3,312 Arbuckle 3,312 Arbuckle 3,312 Arbuckle 3,317	Sun City ('41)	35-30-15W	640	14,304	1,573,305	7		LansK.C.	4,344			
ek North ('52) 17-30-15W 40 3,104 13,389 1 Penn. congl. 4,438 thwest ('54) 21-311W 8,000 102,439 3,270,085 27 3 "Chat" 4,551 12 thwest ('54) 11-22-12W 40 2,500 10,764 1 1 Mississippian 4,229 11 ds abandoned 25-31-12W 27,840 1,934,933 16,054,738 372 12 subser County 27,840 1,934,933 16,054,738 372 12 south ('37) 10-17-13W 2,000 17,222 47,050 2 LansK.C. 3,170 14-19-14W 80 2,198 41,646 2 LansK.C. 3,108 19-18-11W 1,000 78,886 1,696,786 29 1 LansK.C. 3,108 Arbuckle 3,348 Arbuckle 3,348 Arbuckle 3,348 Arbuckle 3,348 Arbuckle 3,348 Arbuckle 3,349 Arbuckle 3,348	Turkey Creek ('43)	20-30-15W	40	426	56,078	1		LansK.C.	4,345	56		
ek North ('52) 17-30-15W 40 3,104 13,389 1 Penn. congl. 4,541 12 1								Simpson	4,438			
t ('54) 32-31-11W 8,000 102,439 3,270,085 27 3 "Chat" 4,355 27 4,455 27 4,229 11 21-31-11W 40 2,500 10,764 1 1 Mississippian 4,229 11 4,229 11 22-31-12W 120 6,504 12,241 4 Mississippian 4,229 11 3,270 25-31-12W 120 6,504 12,241 4 Mississippian 4,284 8 3,270 27,840 1,934,933 16,054,738 372 12 Arbuckle 3,390 11-17-13W 2,000 173,995 4,376,500 60 3 LansK.C. 3,170 Arbuckle 3,390 14-19-14W 80 1,222 47,050 2 LansK.C. 3,042 10 22-18-11W 1,000 78,886 1,696,786 29 1 LansK.C. 3,042 10 Arbuckle 3,348 arbuckle 3,348 arbuckle 3,348 Arbuckle 3,348 Arbuckle 3,348 Arbuckle 3,310 Arbuckle 3,310 Arbuckle 3,310 Arbuckle 3,310 Arbuckle 3,312	Turkey Creek North ('52)	17-30-15W	9	3,104	13,389	-		Penn. congl.	4,541	12		
t ('54) 21-31-11W 40 2,500 10,764 1 1 Mississippian 4,229 11 st ('55) 25-31-12W 40 2,500 10,764 1 1 Mississippian 4,229 11 ds abandoned	Whelan ('34)	32-31-11W	8,000	102,439	3,270,085	21	က	"Chat"	4,355	27		
thwest ('54) 11-22-12W 40 2,500 10,764 1 1 Mississippian 4,229 11 st ('55) 25-31-12W 120 6,504 12,241 4 Mississippian 4,229 11 ds abandoned	Whelan East ('54)	21-31-11W	9	31	31	-		Douglas	3,746			
ds abandoned draw 120 6,504 12,41 4 Mississippian 4,284 8 ds abandoned draw 27,840 1,934,933 16,054,738 372 12	Whelan Southwest ('54)	11-32-12W	9	2,500	10,764	-	-	Mississippian	4,229	=		
arber County arber County BARTON COUNTY South ('37) 10-17-13W 2,000 173,995 4,376,500 60 3	Whelan West ('55)	25-31-12W	120	6,504	12,241	4		Mississippian	4,284	∞		
arber County BARTON COUNTY South ('37)	Pools or nelds abandoned				3,210		١					
South ('37) 10-17-13W 2,000 173,995 4,376,500 60 3 LansK.C. 3,170 14-19-14W 80 1,222 47,050 2 LansK.C. 3,334 8 19-18-11W 80 2,198 41,646 2 LansK.C. 3,103 22-18-11W 1,000 78,886 1,696,786 29 1 LansK.C. 3,042 10 Arbuckle 3,378 west ('47) 31-20-15W no report 471,716 Arbuckle 3,378	Total Barber County		27,840	1,934,933	16,054,738	372	12					
South ('37) 10-17-13W 2,000 173,995 4,376,500 60 3 LansK.C. 3,170 14-19-14W 80 1,222 47,050 2 LansK.C. 3,334 19-18-11W 80 2,198 41,646 2 LansK.C. 3,103 22-18-11W 1,000 78,886 1,696,786 29 1 LansK.C. 3,042 10 Arbuckle 3,348 west ('47) 9-18-11W 40 3,429 45,770 1 LansK.C. 3,106 6 Arbuckle 3,348 Arbuckle 3,348 Arbuckle 3,348 Arbuckle 3,312				BARTON	COUNTY							,
14-19-14W 80 1,222 47,050 2 LansK.C. 3,334 8 3,390 8 1,918-11W 80 2,198 41,646 2 LansK.C. 3,103 1,000 78,886 1,696,786 29 1 LansK.C. 3,042 10 10 10 10 10 10 10 1	Ainsworth South ('37)	10-17-13W	2,000	173,995	4,376,500	9	က	LansK.C.	3,170			
19-18-11W 80 2,198 41,646 2 LansK.C. 3,474 8 19-18-11W 1,000 78,886 1,696,786 29 1 LansK.C. 3,042 10 22-18-11W 40 3,429 45,770 1 LansK.C. 3,106 6 Arbuckle 3,348 (vest ('47) 9-18-11W 40 3,429 45,770 1 LansK.C. 3,106 6 Arbuckle 3,348 ('47) 31-20-15W no report 471,716 Arbuckle 3,787	(O20)	WAL OF AL	6	1 999	47.050	c		Arbuckle	3,390	•		
19-18-11W 80 2,198 41,646 2 LansK.C. 3,103 22-18-11W 1,000 78,886 1,696,786 29 1 LansK.C. 3,042 10 Arbuckle 3,348 (47) 9-18-11W 40 3,429 45,770 1 LansK.C. 3,106 6 3,310 Arbuckle 3,312 (747) 31-20-15W no report 471,716 Arbuckle 3,787	Aleis (52)	W #1-61-#1	8	1,666	41,000	4		Arhioble	2,554	00		
22-18-11W 1,000 78,886 1,696,786 29 1 LansK.C. 3,042 10 Arbuckle 3,348 west ('47) 9-18-11W 40 3,429 45,770 1 LansK.C. 3,106 6 Arbuckle 3,312 Arbuckle 3,312 Arbuckle 3,787	Ameh ('51)	19-18-11W	8	2,198	41.646	2		LansK.C.	3,103	0	20	
9-18-11W 40 3,429 45,770 1 LansK.C. 3,106 6 31-20-15W no report 471.716 Arbuckle 3,787	Ames ('43)	22-18-11W	1,000	78,886	1,696,786	23	1	LansK.C.	3,042	10		
31-20-15W 40 3,429 45,770 1 LansK.C. 3,106 6 3,312 are 471,716 Arbuckle 3,787	, 100 m	A 10 11117	4	0 490	AF 770	•		Arbuckle	3,348	•	,	
31-20-15W no report 471.716 Arbuckle	Ames Northwest (41)	9-18-11 W	₩.	5,429	45,770	-		LansK.C.	3,106	9	9	
DITTOR OF THE PARTY OF THE PART	Ash Creek* ('47)	31-20-15W		no report	471,716			Arbuckle	3,787			

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TABLE 65.—Oil production in Kansas during 1956, continued

			Oil production, bbls.	tion, bbls.			Producing zone, ft.	g zone, ft.		
Field name and year of discovery	Discovery well location	Area, acres	during 1956	to end, 1956	Pro- Wells ducing abd., wells 1956	wells abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Axman ('49)	19-17-14W	160	16,102	160,197	9	1	LansK.C.	3,136	11	£3
Bailey ('56)	30-18-11W	40	167	191	1		Arbuckle	3,396	21	
Barrett ('43)	36-16-14W	800	13,370	231,531	7		LansK.C.	3,355	ĸ	
			•				Arbuckle	3,463		
Bart-Staff* ('51)	4-21-14W	909	109,705	587,585	13		LansK.C.	į	ro	40
						. 1	Arbuckle	3,572	;	į
Batchman ('50)	19-20-12W	6 7 0	11,343	70,397	ĸ	α	Arbuckle	3,459	21	32
Beaver ('34)	16-16-12W	2,400	70,625	3,915,500	48	-	Oread	2,885	9	35
							Toronto	2,938	1	
							Arbuckle	3,348	2	
				!			Reagan	3335	1	8
North*	4-16-12W	400	15,162	709,805	6		Arbuckle	3,316	10.5	£ .
Beaver South ('45)	27-16-12W	1,800	171,834	959,596	34	νo	LansK.C.	3,154		42
							"Sooy"			
							Arbuckle	3,359		
Behrens ('44)	6-20-15W	640	14,714	620,201	10	9	Arbuckle	3,719	4	33
Behrens Northeast ('55)	29-19-15W	4	155	155	, ,		Arbuckle	3,639		
Bergtal ('41)	22-20-15W		no report	2,664			Arbuckle			
	27-20-15W		no report	108			Arbuckle	3,675		
	10-19-11W	320	24.749	283,364	=======================================		Shawnee	2,866	9	38
							LansK.C.	3,224		
							Arbuckle	•	9	
Bissel Point ('54)	10-19-13W	40	1,039	4,487	-		LansK.C.	3,276	ĸ	38
Bissel Point South ('56)	15-19-13W	40	1,685	1,685	-		Arbuckle	3,432	rc	
	9-18-13W		no report	2,077			LansK.C.	3,078		
Bloomer* ('36)	36-17-11W	1,200	211,243	11,469,461	28	-	LansK.C.	3,044	œ	43
•							Arbuckle	3,257		43
Boyd ('42)	4-18-14W	3,900	637,824	7,767,382	134	9	LansK.C.	3,177		
			٠.				Arbuckle	3,438	12	
							Precambrian	3,311		
Buckbee ('49)	14-20-12W	160	160 18,972 41,520 4	41,520	4 huroct		Arbuckle	3,352	œ	41
Buckbee Southwest ('52)	15-20-12W	200	65,091	237,811	13		Arbuckle	3,373	12	40

37	33	36	48																	88	37	37		37		_	Ş	P					32		
	4,5	2 8		9		17	4	7	9		12		6			က		∞		6	4	9		9	•	9	•	4		13	ιc	4	8	41	S
3,230	3,109	3,193	2,955 3,328	3,152	3,393	3,390	3,044	3,040	3,291	3,534	3,531	3,016	3,317	3,314	3,597	3,194	3,090	3,328	3,343	3,326	3,470	3,157	3,384	3,208	3,436	3,322	3,196	3,320 9,479	3,234	3.315	3,460	3,322	3,196	3,441	3,332
LansK.C.	LansK.C.	Arbuckie LansK.C.	LansK.C. Arbuckle	LansK.C.	Penn. congl.	Arbuckle	LansK.C.	LansK.C.	LansK.C.	Reagan	Precambrian	LansK.C.	"Sooy"	Arbuckle	Arbuckle	LansK.C.	LansK.C.	Arbuckle	Arbuckle	LansK.C.	LansK.C.	LansK.C.	Arbuckle	LansK.C.	Arbuckle	LansK.C.	LansK.C.	LansK.C.	Arbuckie Lans K	LansK.C.	Arbuckle	LansK.C.	LansK.C.	Arbuckle	LansK.C.
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103,676	3,165,050	62,581	60,114,473	3,238,981			6,284	14,535	5,661		28,353	256,632	•		13,745	471,523	838,079	•	7,875	30,226	4,494	3,938,225		106,607		14,023	295	300,324	1 153	13.123		82,503	454,236		67,703
46,590	358,868	3,353	2,644,477	315,917			1,893	3,294	1,434		9,566	3,256	•		no report	10,074	190,014	•	no report	5,273	160	538,229		8,054		no runs	no report	38,133	no report	12.026		6,251	106,645	99,464	1,982
640	1,500	8	20,000	2,600			40	9	4		40	40				320	800			8	40	3,200		200		8	;	040		120	ì	180	<u>0</u> 6		4
9-17-14W	21-17-14W	32-17-14W	32-19-9W	12-19-12W			3-18-11W	3-18-11W	35-19-15W		35-19-15W	4-16-11W			29-20-14W	14-19-11W	33-19-11W		15-16-11W	13-19-14W	3-20-15W	30-19-12W		19-19-12W		7-19-12W	6-20-12W	26-19-14W	24 10 12W	24-19-14W		25-19-14W	21-19-13W		23-19-14W
Capitol View ('50)	Carroll ('44)	Carroll Southwest ('47)	Chase-Silica* ('31)	Cheyenne View ('49)			Claffin ('54)	Claffin Northeast ('55)	Clarence ('53)		Clarence Northwest ('54)	Davidson* ('30)			Dundee ('45)	Eberhardt (35)	Ellinwood North ('37)		Esfeld ('47)	Ess ('53)	Fleske ('53)	Fort Zarah ('50)		Fort Zarah North ('51)		Frank ('52)	Fransen ('49)	Great Bend Airport ('52)	C Dend West (351)	Great Delid East (31) Great Rend Northwest (35)		Great Bend Southwest ('52)	Great Bend Townsite ('53)		Great Bend West ('51)

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Table 65.—Oil production in Kansas during 1956, continued

			orrhound Ito	Oil production bble			Droduoing zone ft	d zone ft		
	Discovery		on broad	cuoti, pois.	Pro- V	Wells	Lionnoir	. І		
Field name and year of discovery	well	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	bd., 1956	Name	Depth	Thick- ness	Aver. grav.
Hall-Gurney* ('31)	30-14-13W	009	173,817	1,972,234	34		Shawnee LansK.C. "Sooy" Arbuckle	3,066		
Hammeke ('50)	17-19-11W	160	8.629	106.612	4	_	LansK.C.	3.065	32	
Hammeke Southeast ('50)	17-19-11W	8	3.933	74,575	N		LansK.C.	3,089	2	
Hammer ('40)	35-19-12W	1.000	222,542	1.541,328	88	_	LansK.C.	3,088		
							Arbuckle	3,348	œ	
Hampel ('53)	34-17-15W		no report	none			Arbuckle	3,544		
Harrison (742)	18-20-13W		no report	4,160		_	Arbuckle	3,520		
	3-19-13W	320	13,632	83,120	9		LansK.C.	3,158	16	40
							Arbuckle	3,393		
Hawkins Northwest ('53)	33-18-13W	4	no runs	4,615	-		Arbuckle	3,428	9	4
Heizer ('35)	16-19-14W	40	1,820	54,140	-		LansK.C.	3,228	~	
	9-19-14W	4	771	931	-		Arbuckle	3,555	00	
Heizer Northeast ('52)	15-19-14W	4	no runs	7,178	-	~	LansK.C.	3,353	14	
	5-19-14W	8	3,491	4,755	7	-	LansK.C.	3,366	4	
$\overline{}$	21-19-14W	320	12,991	67,502	4		LansK.C.	3,379		33
				•			Arbuckle	3,552		
Heizer West ('55)	17-19-14W	160	35,333	53,299	2		LansK.C.	3,237	11	
							Arbuckle	3,546		
Herres ('55)	33-17-13W	8	75,165	69,593	23		Arbuckle	3,343	2	
Hiss (36)	31-20-13W	1,00	84,282	865,868	12	~	LansK.C.	3,270	ĸ	
Hiss East ('52)	33-20-13W	8	4,013	46,330	~		LansK.C.	3,383	18	
							Arbuckle	3,549		
Hiss South ('50)	31-20-13W	8	7,679	102,178	က		Arbuckle	3,542		33
Hiss Southeast ('48)	32-20-13W	160	10,516	173,654	9	_	LansK.C.	3,414	16	36
							Arbuckle	3,545		
Hoisington ('38)	21-17-13W	6 4 0	54,087	1,518,909	34	-	LansK.C.	3,222	4	37
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Hoisington East (54)	W61-11-62	TON	9,203 19,072	00°,144	- 4		Lansr.C. Arbuckle	3,338	,	5
Hoisington North ('56)	16-17-13W	40		4,200	-		Arbuckle	3,412	က	
Hoisington Southwest ('54)	20-17-13W	8		16,307	~		LansK.C.	3,282	;	
							Arbuckle	3,363	21	

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3,310	3.300	3,534	3,184	3,413	3,220	3,414	3,377	3,149	3,220	3,398	3,185	3,378	2,885	2,997	3,100	3,335	3,231	3,310		3,250	3,351	3,372	3,109	3,235	3,280	3,267	3,464	3,341	3,276	3,366	3,033	3,272	3,304	3,079	3,284	3,494	3,567	3,322	3,183	3,387
Arbuckle	Arbuckle	Simpson	LansK.C.	Arbuckle	LansK.C.	Arbuckle	Arbuckle	LansK.C.	LansK.C.	Arbuckle	LansK.C.	Arbuckle	Snawnee	Douglas	LansN.C.	Gorham	Arbuckle	Reagan	Precambrian	LansK.C.	Arbuckle	Arbuckle	LansK.C.	Arbuckle	LansK.C.	LansK.C.	Arbuckle	LansK.C.	LansK.C.	Arbuckle	LansK.C.	Arbuckle	Arbuckle	LansK.C.	Arbuckle	Arbuckle	Reagan	LansK.C.	LansK.C.	Arbuckle
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12,720	2,511	34,691	49,594		163,348	50,313	152,162	1,737	24,095		1,624,255	700 404 00	09,474,00							396,518		6,861	965,142		107,084	890,609		9,414	18,532		416,085		12,086	369,850		17,637	26,438	5,444	20,953	
no report	614	16,275	9,907	20,173	16,271	3,377	14,838	1,737	3,626		258,160	07 200 6	0,000,140							17,807		no report	12,567		7,815	119,186		696	1,371		37,558		2,779	9,442	81,903	no report	no report	723	15,046	
	40	40	160		320	40	120	8	8		1,400	96 100	20,100							240			900		160	200		40	40		400		40	640				40	300	
22-18-13W	21-18-13W	27-20-14W	31-18-11W		2-19-11W	28-17-13W	27-17-13W	33-17-13W	23-19-13W		32-20-11W	W11 17 11 W	W11-11-01							36-16-11W		21-18-13W	15-19-11W		10-17-14W	7-17-14W		23-20-14W	34-17-13W		31-18-10W		25-18-11W	24-18-11W		36-18-15W	12-19-15W	13-20-14W	5-16-14W	
Homestead ('48)	Homestead West ('55)	Jettie ('54)	Kimpler ('55)		Klepper ('51)			Klug West ('56)	Koopman ('53)		Kowalsky* ('41)	Kroff-Driso* (197)	(10) per i rate							Kraft-Prusa Northeast ('41)		Lake Barton ('48)	Lanterman ('34)		Larkin ('51)	Leoville ('50)	:	Liberty ('52)	McCauley ('49)		Mary Ida* ('50)		Mary Ida North ('52)	Meadowside* ('49)		Merten Northeast ('46)	Merten Southeast ('49)	Moses ('53)	Nuss* ('55)	

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Table 65.—Oil production in Kansas during 1956, continued

Complement Com		į		Oil production, bbls.	tion, bbls.	Ç.	allow	Producin	Producing zone, ft.		
3-17-12W 700 49,445 245,017 9 5 Arbuckle 3.321 2 30-18-15W 40 240,465 5,722,188 121 7 Reagan 3,601 1 17-20-15W 40 13,838 231,486 1 Arbuckle 3,814 2 17-20-15W 40 777 6,394 1 Lans-K.C. 3,397 5 2-16-14W 360 23,182 306,298 8 Lans-K.C. 3,397 5 34-20-14W 360 23,182 306,298 8 Lans-K.C. 3,298 3 Lans-K.C. 3,298 7 7-17-13W 80 8,047 46,122 3 Lans-K.C. 3,280 7 1-17-14W 80 8,047 46,122 3 Lans-K.C. 3,240 7 1-17-14W 80 8,047 46,122 3 Lans-K.C. 3,240 7 1-17-12W 40 15,00 13,742 23,234 5 Lans-K.C. 3,240 7 1-17-12W 40 13,742 23,234 5 Lans-K.C. 3,240 7 1-17-12W 40 20,778 19,343 9 Lans-K.C. 3,240 7 1-19-11W 40 20,770 1,284 1 Lans-K.C. 3,105 1 Lans-K.C. 3,105 1-19-11W 40 20,7770 1,284 1 Lans-K.C. 3,291 7 1-19-11W 40 35,497 1,166,19 16 Arbuckle 3,325 8 1-19-13W 40 20,7770 1,284 1 Lans-K.C. 3,291 7 1-19-11W 40 20,7770 1,284 8 1 Lans-K.C. 3,291 7 1-19-11W 40 20,7770 1,284 8 1 Lans-K.C. 3,291 7 1-19-11W 40 20,7770 1,284 8 1 Lans-K.C. 3,291 7 1-19-11W 40 35-20-13W 16,593 10,575 1 Lans-K.C. 3,291 7 1-19-11W 40 35-20-13W 16,593 10,592 1 Lans-K.C. 3,291 7 1-19-11W 40 35-20-13W 16,593 10,592 1 Lans-K.C. 3,291 7 1-19-11W 40 35-20-13W 16,593 10,592 1 Lans-K.C. 3,291 7 1-19-11W 40 35-20-13W 16,590 10	Field name and year of discovery	Discovery well location	Area, acres	during 1956		ducing wells	weiis abd., 1956	Name	Depth	Thick- ness	Aver. grav.
30-18-15W 11,000 240,445 5,722,188 121 7 Reagan 3,601 13-20-16W 40 3,383 231,486 1 Arbuckle 3,814 25-16-14W 10 report 25,496 1 LansK.C. 3,373 27-19-13W 40 737 6,394 1 LansK.C. 3,397 5 34-20-14W 360 23,182 306,298 8 LansK.C. 3,596 36 34-20-14W 360 23,182 3,806,681 42 LansK.C. 3,263 8 34-20-14W 360 23,182 3,806,681 42 LansK.C. 3,263 8 34-20-14W 360 3,424 4 LansK.C. 3,225 8 34-20-14W 500 13,742 23,234 5 LansK.C. 3,235 8 31-17-12W 320 20,785 193,430 9 LansK.C. 3,488 7 31-17-12W 320 20,785 193,430 9 LansK.C. 3,325 8 31-17-12W 320 20,785 193,430 9 LansK.C. 3,325 8 31-17-12W 320 20,785 193,430 9 LansK.C. 3,325 8 31-17-12W 320 5,602 88,013 2 LansK.C. 3,325 8 31-17-13W 40 2,481 4,871 1 LansK.C. 3,326 7 31-19-11W 40 20,7770 1,283,478 32 LansK.C. 3,201 7 38-20-13W 1,400 20,7770 1,283,478 32 LansK.C. 3,201 7 38-20-13W 10 1,283,478 32 LansK.C. 3,257 4 38-20-13W 10 1,283,478 32 LansK.C. 3,257 4 38-20-13W 10 1,283,478 32 LansK.C. 3,257 4 38-10-12W 320 10,560 Arbuckle 3,323 3,248	Odin ('48)	3-17-12W	700	49,445	245,017	6	ಬ	Arbuckle	3,321	2	31
(41) 13-20-16W 40 3,383 231,486 1 Arbuckle 3,832 16 (71) 21-20-15W no report 2,6,08 Arbuckle 3,814 27-19-15W 40 737 6,394 1 LansK.C. 3,397 5 27-19-11W 360 23,182 306,298 8 LansK.C. 3,596 20-19-11W 360 23,182 306,681 42 LansK.C. 3,253 8 (7-17-13W 23,257 2,806,681 42 LansK.C. 3,253 8 (7-17-13W 160 3,342 67,734 4 1 LansK.C. 3,225 8 (7-17-14W 80 8,447 23,234 5 1 LansK.C. 3,225 8 (7-17-12W 360 13,742 23,234 5 1 LansK.C. 3,236 7 (7-17-12W 360 13,742 23,234 5 1 LansK.C. 3,236 7 (7-17-12W 360 13,742 42,324 5 1 LansK.C. 3,235 8 (7-17-12W 360 4,867 1 LansK.C. 3,083 7 (7-18-11W 640 3,497 1,166,519 16 3 LansK.C. 3,357 4 (49) 30-20-13W 100 report 16,333 1 LansK.C. 3,236 1 (49) 30-20-12W 360 1,258,478 32 2 LansK.C. 3,237 4 (49) 30-20-12W 360 207,770 1,258,478 32 2 LansK.C. 3,237 4 (49) 30-20-12W 360 1,400 207,770 1,258,478 32 2 LansK.C. 3,237 4 (49) 30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,231 6 (49) 30-20-12W 300 19,888 40,434 7 1 Arbuckle 3,231 6 (49) 31-12W 100 report 16,333 Arbuckle 3,331 8 (49) 31-12W 100 report 7,580 Arbuckle 3,417 8 (40) 31-12W 100 report 7,580 Arbuckle 3,317 8 (41) 31-12W 100 report 7,580 Arbuckle 3,317 Arbuckle 3,221 1 (42) 31-20-12W 100 report 7,580 Arbuckle 3,317 Arbuckle 3,221 1 (43) 31-20-12W 320 4,434 7 1 Arbuckle 3,331 Arbuckle 3,331 Arbuckle 3,331 Arbuckle 3,331 Arbuckle 3,331 Arbuckle 3,431 Arbuckle 3,43	*	30-18-15W	11,000	240,465	5,722,188	121	2	Reagan	3,601		
('41) 17-20-15W no report 26,408 Arbuckle 3,814 25-16-14W 40 737 6,394 1 LansK.C. 3,377 5 27-19-15W 40 737 6,394 1 LansK.C. 3,596 36 20-19-11W 360 23,182 306,298 8 LansK.C. 3,080 36 20-19-11W 360 23,182 306,281 42 LansK.C. 3,283 8 (***Atherical Report 1.51	Pawnee Rock* ('36)	13-20-16W	40	3,383	231,486	1		Arbuckle	3,832	16	
25-16-14W	Pawnee Rock East ('41)	17-20-15W		no report	26,408			Arbuckle	3,814		
777 6,394 1 LansK.C. 3,397 5 20-19-11W 360 23,182 306,298 8 LansK.C. 3,596 34-20-14W 360 23,3257 2,806,681 42 LansK.C. 3,253 8 1**('53) 2-21-14W Combined with Pritchard Simpson 3,455 3 1**-117-13W 160 3,842 67,734 4 1 LansK.C. 3,240 7 23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,240 7 23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,240 7 31-17-12W 360 5,602 88,013 2 1 LansK.C. 3,48 31-17-12W 360 5,602 88,013 2 1 LansK.C. 3,305 3 25-17-15W 40 4,871 4 1 LansK.C. 3,120 5 25-17-15W 40 4,871 4,871 1 LansK.C. 3,106 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,307 4 36-20-13W 10-report 16,333 LansK.C. 3,208 17 Arbuckle 3,357 4 Arbuckle 3,357 Arbuckle 3,357 Arbuckle 3,357 Arbuckle 3,357 Arbuckle 3,357 Arbuckle 3,357 Arbuckle 3,257 Arbuckle 3,417 Arbu	Peach ('52)	25-16-14W		no report	1,810			LansK.C.	3,373		
Territory 360 23,182 306,298 8 LansK.C. 3,080 36 1,000 34,000 3	Pendergast ('53)	27-19-15W	40	737	6,394	-		LansK.C.	3,397	rc	38
20-19-11W 360 23,182 306,298 8 LansK.C. 3,080 36 34-20-14W 36.0 23,182 306,681 42 LansK.C. 3,253 8 Warmaton 3,525 Simpson Arbuckle 3,455 3 7-17-13W 80 8,047 67,734 4 1 LansK.C. 3,225 8 1-17-44W 80 8,042 67,734 4 1 LansK.C. 3,225 8 23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,240 7 31-17-12W 320 20,785 193,430 9 LansK.C. 3,083 7 6-18-12W 40 5,000 88,013 2 1 LansK.C. 3,083 7 25-17-15W 40 6,486 42,341 4 LansK.C. 3,120 5 25-17-15W 40 4,871 1 LansK.C. 3,172 5 25-17-15W 40 4,871 1 LansK.C. 3,172 5 25-17-15W 40 4,871 4,871 1 LansK.C. 3,172 5 25-17-15W 40 23 10,575 1 Arbuckle 3,355 4 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,106 1-19-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 32-17-12W no report 16,333 LansK.C. 3,291 7 38-20-12W no report 7,582 Arbuckle 3,417 8-19-12W no report 7,582 Arbuckle 3,417					•			Arbuckle	3,596		
14-20-14W 233,257 2,806,681 42 LansK.C. 3,253 8 14-20-14W Combined with Pritchard Arbuckle 3,455 3 1-17-14W 80 8,047 48,122 3 LansK.C. 3,225 8 1-17-14W 80 13,742 23,234 5 1 LansK.C. 3,244 2 23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,448 2 31-17-12W 320 20,785 193,430 9 LansK.C. 3,144 2 20 120,786 86,013 2 1 LansK.C. 3,135 4 21-13-1W 40 23 10,575 1 Arbuckle 3,355 21-13-1W 40 20,770 <	Prairie View ('50)	20-19-11W	360	23,182	306,298	œ		LansK.C.	3,080	36	40
Marmaton 3,625 Simpson Arbuckle 3,455 Simpson 3,455 Simpson 3,455 Simpson 3,455 Simpson 3,455 Simpson 3,454 Simpson 1,17-14W 80 8,047 48,522 3 LansK.C. 3,226 8 Simpson 1,17-14W 80 8,047 48,522 3 LansK.C. 3,225 8 Simpson 1,17-12W 320 20,785 193,430 9 LansK.C. 3,448 Simpson 1,17-12W 360 5,602 88,013 2 1 LansK.C. 3,485 Simpson 1,17-12W 40 6,486 42,341 4 LansK.C. 3,135 Simpson 1,140 2,4871 1 LansK.C. 3,135 Simpson 1,140 2,4871 1,166,519 16 Arbuckle 3,355 Simpson 1,166,519 16 Arbuckle 3,357 Simpson 1,166,519 16 Arbuckle	Pritchard* ('44)	34-20-14W		233,257	2,806,681	42		LansK.C.	3,253	∞	32
Simpson Arbuckle 3,455 3 1-17-14W Combined with Pritchard Combined Combine								Marmaton	3,625		
t* ('53) 2-21-14W Combined with Pritchard 3,455 3 7-17-13W 160 3,842 67,734 4 1 LansK.C. 3,225 8 1-17-14W 80 8,047 48,522 3 LansK.C. 3,225 8 23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,240 7 Penn. congl. 3,414 2 31-17-12W 320 20,785 193,430 9 LansK.C. 3,083 7 Arbuckle 3,335 2) 6-18-12W 40 5,602 88,013 2 1 LansK.C. 3,083 7 25-17-12W 40 4,871 4 1 LansK.C. 3,120 5 25-17-15W 40 4,871 4,871 1 LansK.C. 3,106 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,208 Arbuckle 3,355 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 Arbuckle 3,355 Arbuckle 3,357 Arb								Simpson			
t* ('53) 2-21-14W Combined with Pritchard 7-17-13W 160 3,842 67,734 4 1 LansK.C. 3,226 8 1-17-14W 80 8,047 48,522 3 LansK.C. 3,225 8 23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,240 7 Penn. congl. 3,414 2 Arbuckle 3,448 31-17-12W 320 20,785 193,430 9 LansK.C. 3,083 7 33-17-12W 360 5,602 88,013 2 1 LansK.C. 3,083 7 6-18-12W 40 53 10,575 1 Arbuckle 3,325 8 25 6-18-12W 40 4,871 1 LansK.C. 3,172 5 25-17-15W 40 4,871 1 LansK.C. 3,172 5 25-17-15W 40 20,770 1,258,478 32 LansK.C. 3,357 4 1-19-11W 1,400 207,770 1,258,478 32 LansK.C. 3,208 14-18-11W 1,400 207,770 1,258,478 32 LansK.C. 3,208 14-18-11W 1,400 207,770 1,258,478 32 LansK.C. 3,208 36-20-13W 320 19,888 40,434 7 1 Arbuckle 3,327 8-19-12W no report 1,582 Arbuckle 3,327 8-19-12W ro report 7,582 Arbuckle 3,417								Arbuckle	3,455	က	
7-17-13W 160 3,842 67,734 4 1 LansK.C. 3,286 7 1-17-14W 80 8,047 48,522 3 LansK.C. 3,225 8 23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,226 8 31-17-12W 320 20,785 193,430 9 LansK.C. 3,335 33-17-12W 360 5,602 88,013 2 1 LansK.C. 3,335 7 77,896 10,575 1 Arbuckle 3,352 2 2) 6-18-12W 40 93 10,575 1 Arbuckle 3,325 8 31-16-12W 40 4,871 4 LansK.C. 3,172 5 22-17-15W 640 35,497 1,166,519 16 3 LansK.C. 3,357 4 36-20-13W 1,400 207,770 1,258,478 32 LansK.C. 3,298 7 7 86-20-13W 10 report 16,333 LansK.C. 3,257 8 22-17-13W no report 10,560 Arbuckle 3,323 8 8-19-12W no report 7,882 Arbuckle 3,323 8 8-19-12W Arbuckle 3,323 Arbuckle 3,323 8 8-19-12W Arbuckle 3,347	Pritchard Southeast* ('53)	2-21-14W		Combined	with Pritch	ard					
1-17-14W 80 8,047 48,522 3 LansK.C. 3,240 7 23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,240 7 7 8-10-13W 320 20,785 193,430 9 LansK.C. 3,348 7 7,896 10,575 1 LansK.C. 3,120 5 7,7896 10,575 1 Arbuckle 3,325 8 31-16-12W 40 4,871 4 LansK.C. 3,120 5 11-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,106 7 1-19-11W 1,400 207,770 1,258,478 32 LansK.C. 3,291 7 8-20-13W no report 16,33 LansK.C. 3,257 8-217-13W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,323	Putnam ('51)	7-17-13W	160	3,842	67,734	4	1	LansK.C.	3,286	2	33
23-19-13W 600 13,742 23,234 5 1 LansK.C. 3,240 7 Arbuckle 3,448 31-17-12W 320 20,785 193,430 9 LansK.C. 3,083 7 33-17-12W 360 5,602 88,013 2 1 LansK.C. 3,120 5 31-16-12W 40 93 10,575 1 Arbuckle 3,325 2 25-17-15W 40 4,871 4 LansK.C. 3,172 5 25-17-15W 640 35,497 1,166,519 16 3 LansK.C. 3,357 4 1-19-11W 640 207,770 1,258,478 32 LansK.C. 3,357 14-18-11W 1,400 207,770 1,258,478 32 LansK.C. 3,257 (Abuckle 3,257 1) 36-20-13W no report 16,333 LansK.C. 3,491 6 32-17-13W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,323	Putnam West ('51)	1-17-14W	8	8,047	48,522	က		LansK.C.	3,225	∞	88
31-17-12W 320 20,785 193,430 9 LansK.C. 3,083 7 Arbuckle 3,448 33-17-12W 360 5,602 88,013 2 1 LansK.C. 3,120 5 77,896 10,575 1 Arbuckle 3,352 2 2 2 1 LansK.C. 3,120 5 31-16-12W 40 4,871 4 LansK.C. 3,172 5 25-17-15W 640 35,497 1,166,519 16 3 LansK.C. 3,106 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,106 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 16-18-13W no report 16,333 LansK.C. 3,257 8-19-12W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,323	Red Brick ('53)	23-19-13W	009	13,742	23,234	τC	-	LansK.C.	3,240	2	
Arbuckle 3,448 31-17-12W 320 20,785 193,430 9 LansK.C. 3,083 7 33-17-12W 360 5,602 88,013 2 1 LansK.C. 3,325 2 77,896 42,341 4 LansK.C. 3,325 2 31-16-12W 120 6,486 42,341 4 LansK.C. 3,172 5 25-17-15W 40 4,871 1,166,519 16 3 LansK.C. 3,106 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,106 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 36-20-13W no report 16,333 LansK.C. 3,277 3,271 1,272 1								Penn. congl.	3,414	8	
31-17-12W 320 20,785 193,430 9 LansK.C. 3,083 7 33-17-12W 360 5,602 88,013 2 1 LansK.C. 3,120 5 77,896 10,775 1 Arbuckle 3,352 2 2) 6-18-12W 40 6,486 42,341 4 LansK.C. 3,172 5 25-17-15W 40 4,871 4,871 1 LansK.C. 3,172 5 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,106 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 36-20-13W 320 19,888 40,434 7 1 Arbuckle 3,357 6 32-17-13W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,417								Arbuckle	3,448		
2) 6-18-12W 360 5,602 88,013 2 1 LansK.C. 3,120 5 2) 6-18-12W 40 93 10,575 1 Arbuckle 3,352 2 2) 116-12W 120 6,486 42,341 4 LansK.C. 3,122 5 25-17-15W 40 4,871 4,871 1 LansK.C. 3,172 5 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,106 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 36-20-13W no report 16,333 LansK.C. 3,257 32-17-13W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,417	Redwing ('50)	31-17-12W	320	20,785	193,430	6		LansK.C.	3,083	2	40
2) 33-17-12W 360 5,602 88,013 2 1 LansK.C. 3,120 5 77,896 10,575 1 Arbuckle 3,352 2 2) 6-18-12W 40 93 10,575 1 Arbuckle 3,325 8 31-16-12W 120 6,486 42,341 4 LansK.C. 3,172 5 25-17-15W 640 35,497 1,166,519 16 3 LansK.C. 3,357 4 14-18-11W 1,400 207,770 1,258,478 32 LansK.C. 3,208 14-18-11W 1,400 207,770 1,258,478 32 LansK.C. 3,208 36-20-13W no report 16,333 LansK.C. 3,257 (49) 30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,491 6 32-17-13W no report 7,582 Arbuckle 3,417								Arbuckle	3,335		
2) 6-18-12W 40 93 10,575 1 Arbuckle 3,352 2 31-16-12W 120 6,486 42,341 4 LansK.C. 3,172 5 25-17-15W 40 4,871 4,871 1 LansK.C. 3,172 5 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,357 4 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 36-20-13W no report 16,333 LansK.C. 3,257 (49) 30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,491 6 32-17-13W no report 10,560 Arbuckle 3,417 8-19-12W Arbuckle 3,417	Redwing East ('55)	33-17-12W	360	5,602	88,013	8	-	LansK.C.	3,120	ro	
h ('52) 6-18-12W 40 93 10,575 1 Arbuckle 3,325 8 50 31-16-12W 120 6,486 42,341 4 LansK.C. 3,172 5 5 5 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,357 4 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,357 4 3,355 14-18-11W 1,400 207,770 1,258,478 32 LansK.C. 3,208 Arbuckle 3,257 Arbuckle 3,257 Bast ('48) 36-20-13W 320 19,888 40,434 7 1 Arbuckle 3,323				77,896		10		Arbuckle	3,352	87	
50) 31-16-12W 120 6,486 42,341 4 LansK.C. 3,172 5 25-17-15W 40 4,871 1 LansK.C. 3,357 4 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,357 4 Arbuckle 3,355 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 Arbuckle 3,257 Arbuckle 3,257 Arbuckle 3,257 Arbuckle 3,257 Arbuckle 3,257 Arbuckle 3,217-13W no report 10,560 Arbuckle 3,323 Arbuckle 3,317 Arbuckle 3,317 Arbuckle 3,317 Arbuckle 3,417	Redwing South ('52)	6-18-12W	40	63	10,575	-		Arbuckle	3,325	œ	40
25-17-15W 40 4,871 4,871 1 LansK.C. 3,357 4 1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,106 Arbuckle 3,355 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 Arbuckle 3,208 ('48) 36-20-13W no report 16,333 LansK.C. 3,257 East ('49) 30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,491 6 8-19-12W no report 7,582 Arbuckle 3,417	Reif South ('50)	31-16-12W	120	6,486	42,341	4		LansK.C.	3,172	z	38
1-19-11W 640 35,497 1,166,519 16 3 LansK.C. 3,106 Arbuckle 3,355 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 Arbuckle 3,208 7 ('48) 36-20-13W no report 16,333 LansK.C. 3,277 (*49) 30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,491 6 8-19-12W no report 7,582 Arbuckle 3,417	Reimer ('56)	25-17-15W	40	4,871	4,871	1		LansK.C.	3,357	4	
Arbuckle 3,355 14-18-11W 1,400 207,770 1,258,478 32 2 LansK.C. 3,208 ('48) 36-20-13W no report 16,333 LansK.C. 3,291 East ('49) 30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,491) 32-17-13W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,417	Rick* ('36)	1-19-11W	640	35,497	1,166,519	16	က	LansK.C.	3,106		41
14-18-11W 1,400 207,770 1,258,478 32 LansK.C. 3,208 ('48) 36-20-13W no report 16,333 LansK.C. 3,257 East ('49) 30-20-12W 320 19,888 40,434 7 7 1 Arbuckle 3,491) 32-17-13W no report 10,560 Arbuckle 3,417 8-19-12W no report 7,582 Arbuckle 3,417								Arbuckle	3,355		
('48) 36-20-13W no report 16,333 LansK.C. 3,257 East ('49) 30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,491 ('3,323.7)) 32-17-13W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,417	Roesler* ('43)	14-18-11W	1,400	207,770	1,258,478	32	8	LansK.C.	3,208		
36-20-13W no report 16,333 LansK.C. 3,257 30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,491 32-17-13W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,417								Arbuckle	3,291	2	
30-20-12W 320 19,888 40,434 7 1 Arbuckle 3,491 0 32-17-13W no report 10,560 Arbuckle 3,323 8-19-12W no report 7,582 Arbuckle 3,417	Rolling Green ('48)	36-20-13W		no report	16,333			LansK.C.	3,257		
32-17-13W no report 10,560 Arbuckle 8-19-12W no report 7.582 Arbuckle	Rolling Green East ('49)	30-20-12W	320	19,888	40,434	2	Н	Arbuckle	3,491	9	
8-19-12W no report 7,582 Arbuckle	Rowland ('49)	32-17-13W		no report	10,560			Arbuckle	3,323		
	Rusco ('50)	8-19-12W		no report	7,582			Arbuckle	3,417		

						48					35						33				33		42	38								
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3,121	3,116	3,373	3,262	2,950	3,035 3,035 3,085	3,317	3,376	3,186	3,230	3,422	3,336	3,332	3,402	2,889	2,966	3,062	3,252	3,173	3,342	3,641	3,347	3,384	3,169	3,106	3,364	3,407	3 238	3,442	3,167	3,434	3,631	
LansK.C.	Arbuckie LansK.C.	Arbuckie LansK.C.	LansK.C.	Douglas	LansK.C. Arbuckle	LansK.C.	Arbuckle	LansK.C.	LansK.C.	Arbuckle	LansK.C.	LansK.C.	Arbuckle	Shawnee	Douglas	LansK.C.	Arbuckle	LansK.C.	Arbuckle	Arbuckle	LansK.C.	Arbuckle	LansK.C.	LansK.C.	Arbuckle	Arbuckle	LansK.C.	Arbuckle	LansK.C.	Arbuckle	Arbuckle	
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47	4.0	7 21	-	140		œ			2	2	-	4		361						6			က	∞		∞	3		-	-		3,242
1,256,263	8,773	44,321 340,402	2,043	25,500,471		71,922	1,969	none	321,790	104,152	11,710	29,306		51,555,669				9,904	1	205,630	6,271	6,126	46,978	245,902		293,340	12,509		3,867	4,336	none 160,852	295,916,039
334,238	8,773	4,021 72,454	no report	926,014		37,283	no report	no report	11,059	37,083	4,858	25,147		1,196,338				no report	1	8,135	no report	no report	7,705	29,863		98,901	12,509		3,867	4,336	no report	14,913,934
1,280	160	640 640	40	2,500		160			160	200	40	320		12,860					;	640			120	640		200	320		40	40		122,840
5-19-11W	34-18-11W	21-20-13W	34-20-13W	24-20-11W		9-20-13W	8-17-12W	33-20-11W	7-20-12W		23-20-13W	23-16-14W		23-15-14W				15-17-13W		24-29-15W	8-19-13W	4-20-12W	36-18-12W	30-19-11W		33-20-12W	16-20-12W		21-20-12W	28-20-12W	28-19-15W	
St. Peter ('44)	St. Peter East ('56)	_	Sandrock Southeast ('54)	Silica South* ('35)		South Bend ('54)	Sunflower ('49)	Sunnyside ('53)	Sunny Valley ('49)	Sunny Valley Northeast ('54)	Sunny Valley Southwest ('54)	Templing ('55)		Trapp* ('36)				Underwood ('50)	1111			Wearne ('51)		Werner-Robl ('51)		Workman ('44)	Workman North ('56)		>	Workman West ('56)	Zimmer ('53) Pools or fields abandoned	Total Barton County



Table 65.—Oil production in Kansas during 1956, continued

		•								
	Discontinu		Oil produ	Oil production, bbls.	Pro-	Wells	Producing zone, ft.	g zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956		abd., 1956	Name	Depth	Thick- ness	Aver. grav.
			BOURBON COUNTY	COUNTY						
Bronson-Xenia* a b	17-25-21E	640 640 640	2,967 271 5,586		28		"Bartlesville"	665		
Davis-Bronson* b	23-21E	320 10 640	3,283 306 5,929		20		"Bartlesville"	260		
Hepler* ('17) a b	27-22E	440 40	16,305 433		32		"Bartlesville"			
Total Bourbon County		2,770	35,080	868,308 recorded	141	10				
			BROWN COUNTY	COUNTY						
Livengood ('44)	3-1-15E	40	1,434	89,170 recorded	1		"Hunton"	2,580		
			BUTLER COUNTY	COUNTY						
Allen-Robinson ('43) Augusta ('14) a b	1-26-3E 21-28-4E	600 40 6,200	14,898 1,440 356,820	38,895,522	182	N	Mississippian Lansing Kansas City Marmaton Ordovician	2,700 2,000 2,200 2,445		3.5
Augusta North ('14)	28-27-4E	1,280	107,427	15,044,312	89	9	Arbuckle Lansing Kansas City Ordovician	2,600 1,650 2,380 1,950		ಜ
Bare ('52) Bausinger ('29)	31-28-5E 24-27-3E	200	144 5,205	3,110	 66	-	Arbuckie "Bartlesville" Simpson	2,410 2,778 3,050	Ħ	

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	20		13	3																			
2,965	2,650	2,692	2,692	2,860	2,820	2,820 2,850	2,810	2,440	2,650 2,680	2,160	1,790	3,000		2,190	2,759	2,471	2,120	2,400	2,530	1,799	1,700 1,700 1,700	2,500	2,550 2,550
"Chat"	"Bartlesville"	"Chat"	"Chat"	Mississippian	"Chat"	"Bartlesville" Mississippian	"Bartlesville"	"Burgess"	"Bartlesville" "Burgess"	Kansas City Mississippian	LansK.C.	Ordovician		LansK.C.	Mississippian	Mississippian	Kansas City	Mississippian	Viola	LansK.C.	Fenn. sand Lansing	Viola Simpon	Smitson Wilcox Arbuckle
	က								-								ĸ			\$	₽		
7	86	37	9 -			9	က	П	22	-	œ			1	7	-	73			7	1,740		
	3,607,275	1,964,808	94,792	90,622	4,269		33,465	1,302		15,660				65,376	21,397	3,230				32,643	221,149,538		
1,622	237,679 660 685	33,505 3,050	4,830	2,846	no report	22,522	3,457	765	17,703	1,477		2,270	1,308 4,589	2,041	4,075	1,221		36,289	269,886	1,772	4,338,143		
94 6	1,200 40 160	1,280	320	160		320	160	2	200	4		8	8 11 8 9	4	160	8		009	1,100	88	23,000		
26-3E	26-8E	22-28-7E	2-27-7E	7-26-3E	7-26-3臣	5-30-5E	27-29-5E	8-24-5E	8-28-7E	12-27-6E	21-29-4E			7-27-7E	9-25-3E	31-22-4E	18-23-4E			27-23-4E	3c-c2-67		
Benton ('25) a b	Blankenship* ('21) b c	Brandt-Sensenbaugh ('25) a b	Brickley ('51)	Butwick* ('49)	Butwick Northeast ('49)	Combs* ('47)	Combs Northeast ('48)	DeGraff ('55)	DeMoss	Dixon ('46)	Douglass ('16)	ದ	ဝပ	Eckel ('40)	Edgecomb ('51)	Edmonds	Elbing* ('18)	ຸ ຜ .	q	Elbing East ('50)	El Dorado (To)		

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Table 65.—Oil production in Kansas during 1956, continued

			Oil production, bbls.	tion, bbls.		Ì	Producing zone, ft.	zone, ft.		
Field name and	Discovery well	Area,	during 1056	to end 1056	Pro- Wells ducing abd.,	Wells abd.,	Nome	4	Thick-	Aver.
Sear of discounty	TOCH TOCH	acres	ading 1990		WCIIIS	1200	Maille	Depui	TICSS	grav.
Ferrell ('39)	28-28-8E	200	47,050	1,462,748	34		Mississippian	2.647		
Four Mile Creek ('51)	5-28-3E	180	24,857	204,377	9	8	Simpson	3,069	က	
Fox-Bush ('17)	24-29-5E	4,800	718,521	4,928,793	124	4	"Bartlesville"	2,730	22	40
Fox-Bush West ('53)	15-29-5E	200	3,307	22,837	က		"Bartlesville"	2.837	11	
<u> </u>	32-26-6E	300	7,728		6	4	"Bartlesville"	2,760		
Guyot ('48)	5-29-5E		no report	11.890			"Bartlesville"	2,800		
Hannah ('36)	29-8E	160	3.961	29,173	cc		Kansas City	2,120		
Haverhill ('27)	34-27-5E	98	93,781	4.590,118	99		"Bartlesville"	2,700		
Hazlett	24-5E	1.600	141,015	1,516,697	8	11	Mississippian	2,480		
Hickory Creek ('46)	11-28-5E	320	22,034	562,203	22		"Bartlesville"	2,685		
				•			Mississippian	2,700		
Joseph ('47)	18-24-5E		no report	4,364			"Chat"	2,491		
Keighley ('25)	22-27-7E	820	22,260	•	18		"Bartlesville"	2,650		
							Simpson	3,148		
Kramer-Stern ('26)	3-28-6E	5,150	189,659		69		LansK.C.			
							Simpson	3,000		
							Arbuckle	3,040		
Leon ('22)	19-27-6E	640	29,857	3,577,995	22	8	"Chat"	2,660		
							"Bartlesville"			
							Viola	3,050		
Long ('49)	15-26-7E	8	1,844	21,063	_		Mississippian	2,780		
Long Northeast ('53)	11-26-7E	100	2,052	7,950	-		Mississippian	2,753	ĸ	
Lucas ('46)	6-27-8E	480	9,484		2		"Bartlesville"	2,680		
$\overline{}$	7-25-3E	8	1,286	2,060	П		"Burgess"	2,765		
McCullough ('29)	1-28-6E		no report	491,566			Simpson	3,169		
Mt. Tabor ('53)	36-29-4E	440	10,392	102,151	10		"Bartlesville"	2,757	œ	
Muddy Creek ('50)	13-29-4E	1,280	39,021	572,159	33	8	"Bartlesville"	2,813		
Murdock ('52)	23-25-3E	40	1,915	5,907	Н		Mississippian	2,709	10	
Parsley ('49)	3-26-3E	160	5,023	114,864	ĸ		Mississippian	2,700		
Pierce ('26)	28-25-4E	840	62,637	•	32		"Chat"	2,550		
Pierce Northwest ('54)	21-25-4E	320	13,265	48,716	∞	-	Mississippian	2,569	14	
Pierce West ('51)	20-25-4E	8	2,395	26,248	~		Mississippian	2,515	දි	
Fontiac SouthWest ('56)	Z3-Z6-6E	40	191		-					

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Potwin ('17)	31-24-4E	3,200	131,416	8,341,061	111	က	Kansas City	2,550		
Reynolds-Schaffer ('22)	9-27-6E	3,200	140,142		11	-	Kansas City Mississippian	2,375 2,780		
Rombold ('49) Salter ('46) Seward ('26) Shinn ('26) Shinn ('20)	4-26-3E 23-28-3E 27-27-7E 19-29-8E	9 20 4 50 4 50 4 50 4 50 50 4 50 50 50 50 50 50 50 50 50 50 50 50 50	4,301 65,976 51,391 83,516	44,2E9 1,408,6E0 1,177,107 764,811	26 16 15	-	Viola Mississippian Simpson "Bartlesville" Mississippian	3,141 2,770 3,000 2,650 2,766		
Smock-Sluss (17) a b	2-27-5E	1,800	95,365 1,361		4	N	"Bartlesville" Viola	3,000	35	
Snowden-McSweeney ('30)	34-28-6E	1,900	23,623 150,976		80		LansK.C. "Peru" "Bartlesville"	2,060 2,404 2,810	35	
Steinhoff ('26) Towanda ('48)	28-29-6E 5-26-4E	160 400	7,091 276,825	2,225,694	3 2		Mississippian Mississippian Mississippian	2,2,2,2,2,2,4,0,4,0,4,0,0,0,4,0,4,0,4,0,4,0,0,4,		
Whitewater ('49) Whitewater North ('51)	32-25-4E 29-25-4E	320	32,345 no report	365,008 6,135	12		Viola Viola Viola	2,625 2,700		
roung (20) a b Miscellaneous	Z1-20-12	1,100 640	68,104 14,148 20,713		9	⊣	Mississippian	2,650		
Total Butler County		72,430	8,138,153	413,813,291 recorded	3,322	83				
Atyeo* ('25) Atyeo-Pixlee* ('23) Teeter* ('20)	30-21-10E 7-22-10E 16-23-9E	180 640	CHASE COUNTY Now called Aty 8,344 23,900	HASE COUNTY Now called Atyeo-Pixlee 8,344 3 23,900 19	Pixlee 3 19		"Bartlesville" "Bartlesville"	2,250 2,500		
Total Chase County		820	32,244	302,808 recorded	123					
Berlin Borroum ('26)	32-11E 20-34-9E	CF 200	1AUTAUQ1 7,754 6,250	CHAUTAUQUA COUNTY 0 7,754 0 6,250	7 1		Marmaton	1,780		

Table 65.—Oil production in Kansas during 1956, continued

	Discovery		Oil produc	Oil production, bbls.	Pro-	Wells	Producing zone, ft.	g zone, ft.		
Field name and year of discovery	well	Area, acres	during 1956	to end, 1956	ducing abd wells 1956	ebd 1956	Name	Depth	Thick- ness	Aver. grav.
Elgin	34-10E				204	œ	"Peru"	1,520		
		200 1.000	5,406 26,291							
1 0		100	2,205							
r T		8	302							
Φ 4+		001	760							
Elk City	32-13E	38	953		cr		Burgess	1.360		
Frazier	33-13E	88	3.196			8	"Peru"	1.520		
Hale-Inge* ('07)	32-12E				67	8	"Peru"	1,160		
, , ,		200	145					ļ		
q		200	1,454							
o .		2,000	31,273							
Hewins	34-10E	100	14,310		က					
Kingston ('26)	18-32-11E	8	20		α		"Chat"	1,850		
							Arbuckle	2,176		
Landon-Floyd ('36)	23-32-10E	200	32,954		8		Mississippian	2,000		
Leniton	33-10E	3,000	112,379		64	-	Peru			
Leonard	34-9E	40	914		~					
	34-10E	10	612		-	-	Peru			
McAllister ('25)	28-32-10E	8	6,370		87		Arbuckle	2,280		
os (11-33-9E	10	75							
Malone	18-32-10E	<u> </u>	20,108		∞		Arbuckle	2,340		
Niotaze	34-13E	;	;		26	0	"Redd"	6 9		
cs +		180	1,244				"Peru"	822		
Q ::0		1,000	10,520		,	•	•			
Oliver (35)	32-116	3	14,196		13	77	Arbuckle Mamatan			
Peru-Sedan ('00)	34-11E				1.677	33	"Peru"	1.200	25	
e e		909	9.863		:	}	Mississinnian	2000	}	
۵. د		9	19,478				MARKON MARKET PARKET	,		
) C		180	4 177							
, ' '		4.500	75.624							
Φ		14,000	399,072							
44		640	2,142							
, 00		<u></u>	13,376							
띡		200	18,220							

i j k k l n n o o Ramsey Rich ('56)	33-9E 16-33-9E 34-9E	80 100 1,700 1,000 600 600 800 200 200 800 800 800 800 800 800 8	799 249 8,251 128,085 662 26,472 1,411 71 453 1,986 1,986		718		Mississippian "Peru"	2,285 1.670	30	
Wayside-Havana* ('04)	34-13E	320	4,083		82		Mississippian "Wayside" "Weiser"	2,100 575 700		
Wiggam Miscellaneous	34-32-10E	160	1,452 1,782		សិស		"Bartlesville" "Weiser"	1,500		
Total Chautauqua County		40,270	1,035,370	46,881,093 recorded	2,187	12				
	Ī		CLARK COUNTY	OUNTY						
Ashland ('51)	35-32-23W	160	6,861	77,631	က		LansK.C.	4,673		42.6
Cavalry Creek ('55) Harper Ranch ('53)	3-31-21W 9-34-21W	3.600	3,959	3,999 976.534	33.1		v tota Mississippian Morrowan	5,195 5,437		
McKinney* ('50)	2-34-26W	160	1,322	3,320	4		Mississippian	5,762	;	
4 .	10-33-21W 21-34-21W	40	no report 1,762	none 2,866	-		Morrowan Morrowan	5,153 5,452	14	
(,26)	24-34-21W	4	1,346	1,346	۱ ۳		Morrowan	5,480	4	
Total Clark County		4,040	471,732	1,065,696	43					
			COFFEY COUNTY	COUNTY						
Crandall ('53) Dunaway* ('22) Evans*	6-23-16E 23-22-13E 23-15E	888	1,198 11,423 21		6 17 1		Mississippian "Burgess" Mississippian	1,022 1,850 1,878	ນ	
Finnerty ('53)	12-21-13E	360	11,548		7	1	Arbuckle "Peru" "D	2,200 1,382	2:	
Hatch "Lawrence"		40	1,213 Now c	I,213 Now called Crandall	all 2		"Burgess" "Burgess" "Squirrel"	1,825	#	

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Table 65.—Oil production in Kansas during 1956, continued

				•	•					
	i		Oil production, bbls.	tion, bbls.	Š	allom	Producing zone, ft.	zone, ft.		
Field name and year of discovery	Discovery well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Denth	Thick- ness	Aver. grav.
Leroy ('05) · Leroy North	35-22-16E 22-16E	Z	Now called Neosho Falls-Leroy	osho Falls-l	Leroy 17		"Squirrel" "Squirrel"	965		
a b Mr. 11, T 11, 7, 70E	95 99 16th	320 160	7,493 868		150	<u></u>	"Sanitrel"	965		
Neosno Faus-Leroy* (03) a b		3,000	64,734 521		701	3	i i i i i i i i i i i i i i i i i i i	3		
c "Parmely" Van Noy ('17)	7-23-15E	40 80	4,681 762 Combined v	4,681 762 2 Combined with Winterscheid	2 scheid		"Squirrel" "Peru"	1,170	12	
Virgil North* ('20)	22-23-13E	1,200	38,897		11	-	Mississippian "Bartlesville" Mississippian	1,585	3	
Winterscheid*	23-14E	1,280	18,409		35	н	"Peru" "Rartlesville"	1,170		
Miscellaneous		20	69			+	Mississippian	1,750		
Total Coffey County		7,230	161,837	1,948,137	311	16+				
			COMANCHE COUNTY	COUNTY						
Mule Creek ('55) Robbins Ranch ('53)	5-31-18W 23-31-16W	8 49	3,229 2,390	4,849 3,479	7 7		Mississippian Mississippian	5,066 4,915	ro	
Total Comanche County		120	5,619	8,328	ı က					
			COWLEY COUNTY	COUNTY						
Albright ('56) Albright North ('56)	3-34-5E 34-33-5E	900	30,877	30,877 4,422	13		Mississippian Mississippian	3,126 $3,116$	01 8	
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Arkansas City Southwest ('54) Bergkamp ('52)	35-34-3E 6-35-4E	620	no report 54,206	402 386,753	24	Н	"Hoover" "Bartlesville"	1,981 3,202	ల జ	

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Bergkamp Northwest ('52) Biddle ('22)	6-35-4E 7-32-5E	300	no report 10,525	619	11	4	"Bartlesville" Kansas City	3,208	20 ³	
Biddle Northwest ('56)	1-32-4E	400	47,013	47,013	15		"Bartlesville"	2,878	14	
Bogner ('52) Box ('48)	24-31-5E 28-30-7E	240	no report 15.277	1,450 215,000	Ξ		Mississippian Mississippian	2,939	¥ 51	
Brandenburg ('55)	3-35-3E	40	4,402	9,984	7		Simpson	3,664	7	
Brown ('22)	13-31-7E		no report	246,000			Kansas City	2,100		
Bruce ('50)	9-30-4E	40	3,131	43,307	N		Arbuckle	3,306		
Burden ('26)	31-31-6E	1,500	71,680		9		"Layton" "Peru"			40
	,						"Bartlesville"	2,300	32	36
Burden East ('53)	33-31-6E		Combine	Combined with Burden	len		"Layton"	2,194		
Burden Townsite ('54)	34-31-6E		no report	2,898			"Layton"	2,212	10	
_	31-33-6E	909	299,165	660,631	40	-	"Layton"	2,188	6	
Cambridge ('56)	33-31-7E		no report	none			"Layton"	2,041	က	
Canfield ('52)	13-34-3E	906	19,848	200,574	17	~	"Layton"	2,651	4	
							"Bartlesville" LansK.C.	3,375 2,839		
Cedarvale ('53)	9-34-8E	20	102	2.168	-	-	Mississippian	2,365	10	
Centennial ('53)	12-33-3E		no report	3,841			"Bartlesville"	3,267	4	
	1-33-3E	20	550	7,316	Н	-	"Bartlesville"	3.256	4	
	13-31-6E	160	2,752	11,758	7	-	Mississippian	2.935	12	
Churchill Northeast ('55)	18-31-3E	8	5,621	6,375	2	-	Kansas City	2,420		
Clark ('14)	6-31-4E	380	102,807		77		"Bartlesville"	2,840	8	33
Clover	31-7E		no report	20,574			Kansas City	2,230		
•		•	0	000	,		Mississippian	2,800	į	
Combs* ('47)	5-30-5E	400	80,183	499,896	16		"Bartlesville" Mississippian	2,823 2,850	ଛ	
Coneland ('52)	5-35-4E	20	268	685	-		Mississippian	3,211	13	
Couch ('37)	13-30-5E	1,500	150,141	2,297,453	72	-	"Bartlesville"	2,800	12	41
Countryman ('25)	4-33-7E	06	85,499		22	Н	"Layton"	1,950	12	
	!						Mississippian	2,870		
David ('35)	35-30-4E	2,100	496,539	3,373,009	165	က	"Bartlesville"	2,900	40	
	3	9	1	7	ć	•	Arbuckle	3,463	į	
Deichman ('41)	24-31-4E	909	11,573	49,549	99	-	"Bartlesville"	2,900	32	
Dexter ('14)	33-6E	8	1.712		-	_	Mississippian Mississippian	3,000 2,750		
Doane ('47)	36-33-6E		no report	12,420			Mississippian	2,878		
Donelson ('55) Dunbar	21-34-7E 30-5E	88	1,401 2,032	2,660			Kansas City LansK.C.	2,610		

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Table 65.—Oil production in Kansas during 1956, continued

			Oil produc	Oil production bbls			Producing zone. ft.	g zone. ft.		
	Discovery		annoted to	man trong	Pro-	Wells				
Field name and year of discovery	well	Area, acres	during 1956	to end, 1956	ducing abd wells 1956	abd 1956	Name	Depth	Thick- ness	Aver. grav.
Dutch Creek ('52)	35-31-4E		no report	486			"Bartlesville"	2,924	14	
Eastman ('24)	5-31-6E	800	60,321		34		"Bartlesville"	2,890	8	37
Elrod	4-32-5E	ຂ	4,717		-		"Layton"	2,411		
Enterprise Northeast ('52)	35-33-3E	160	4,332	38,851	က	-	"Bartlesville"	3,335	12	
Enterprise Southwest ('53)	3-34-3E	ຂ	866	5,121	-		"Bartlesville"	3,360	10	
Estes ('54)	12-32-6E	8	137,432	150,479	33		"Layton"	2,190	13	
Falls City ('16)	35-7E		no report	1,272,687		г	"Layton"	2,000	112	
Falls City Northwest ('56)	11-35-6E		no report	none			Mississippian	3,055	16	
City West ('55)	13-35-6E	ຂ	166	480	-		Mississippian	2,906		
Ferguson Northwest ('50)	16-30-8E	160	4.392	35,195	က		Kansas City	2,200		
Ferguson West ('34)	21-30-8E	8	699	•	က		Kansas City	2,180		
Frog Hollow ('37)	20-32-5E	640	104,160	4,730,336	3		"Bartlesville"	3,000	8	
Frog Hollow East ('41)	15-32-5E	200	29,040	316,066	12	က	"Bartlesville"	3,000	œ	
,			•	•			Mississippian	3,077	ଛ	
Geuda Springs	5-34-3E	640	139,422	1,305,929	88	18	"Bartlesville"	3,300	14	
							"Chat"	3,345	ß	
							"Cleveland"	2,984	87	
Gibson ('41)	29-34-3E	1,400	393,323	2,477,331	84	N	"Bartlesville"	3,350		
							Mississippian	3,400		
							Simpson	3,774	9	
							Arbuckle	3,780	Π	
Graham ('24)	3-33-3E	9 9	980'6	2,816,563	က	က	"Layton"	2,550	12	
							Arbuckle	3,518	ĸ	
Grand Summit* ('26)	4-31-8E	ຂ	436		9		Kansas City	2,000	13	
Grouse Creek ('51)	16-30-7E	160	9,601	22,861	4		Mississippian	2,890		
Hackney ('56)	19-33-4E	ຂ	2,027	2,027	-		Mississippian	3,246	12	
Harvey ('52)	23-34-3E	1,500	76,081	1,044,818	61	 1	"Layton"	2,574	18	
							"Bartlesville"	3,278		
Henderson ('42)	26-32-3E	8	299	134,484	0		Kansas City	2,650	6	
(90)	17	8	100	007	8	,	Arbuckie	0,419	8	
Hittle ('26)	28-31-4E	3	30,207	9,525,428	8	4	Kansas City Arbuckle	3,280	8	
Kanok ('56)	15-35-5E	120	17,955	17,955	က		Mississippian	3,172	4	
McKay (51)	17-35-4E	949	41,549	381,290	£ °		"Bartlesville"	3,314	,	
Mansur (49)	79-31-0E	300	6,585	94,888	×		Layton	2,170	9 7	

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4 "Bartlesville" 3,358 1 "Bartlesville" 3,418 67 2 "Bartlesville" 2,800 "Bartlesville" 2,800 37 "Layton" 2,114 Mississippian 3,100 East "Bartlesville" 3,150 Arbuckle 3,450 4 "Bartlesville" 3,450 4 "Bartlesville" 3,150 Arbuckle 3,400 13 "Layton" 2,400 14 "Bartlesville" 3,100 2 "Bartlesville" 2,232 "Layton" 2,232	
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37 "Layton" 2,114 East "Bartlesville" 3,050 15 "Layton" 2,600 15 "Arbuckle 3,450 4 "Bartlesville" 3,450 13 "Layton" 2,400 8 1 "Bartlesville" 3,300 8 1 "Bartlesville" 3,300 7 1 Simpson 3,500 25 "Bartlesville" 3,465 7 Simpson 3,500 25 "Layton" 2,232 27 "Layton" 2,232 28 "Layton" 2,232	no report
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15 "Layton" 2,600 Arbuckle 3,450 4 "Bartlesville" 3,450 13 "Layton" 2,400 8 1 "Bartlesville" 3,300 8 1 "Bartlesville" 3,100 7 1 Simpson 3,500 25 "Bartlesville" 2,875 25 "Layton" 2,232 "Layton" 2,232	Combined with
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"Layton" 2,232 "Layton"	700 18,371
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Table 65.—Oil production in Kansas during 1956, continued

			-					13		
	Discovery		Oil proauc	Oil production, pais.	Dro-	Wells	Froaucing zone, 10.	g zone, it.		
Field name and year of discovery	well	Area, acres	during 1956	to end, 1956	ducing wells	abd., 1956	Name	Depth	Thick- ness	Aver.
Turner West ('52)	25-32-5E	88	1,115	8,234	H 6		Mississippian	3,054		
Udali Walnut Bend	30-3E 11-34-4E	120	8,380 3.044		ი ი		Arbuckie	7,650		
Walnut Bend North ('56)	36-33-4E	20	157	157	-		Mississippian	3,188	∞	
Weathered ('35)	28-31-3E	640	49.523	2.870.767	24	-	"Stalnaker"	2,080	12	
							LansK.C.	2,480	12	
							Mississippian	3,020	∞ 1	
							Arbuckle	3,250	ഹ	
Werner (revived) ('56)	31-32-6E	40	1,069	1,069	7		"Layton"	2,460	E 9	
							Mississippian	3,0.74	×	
Wilmot-Floral	31-5E	40	17,149		8		"Bartlesville"	2,910		
Wilson ('38)	9-33-6F	8	25.		-	-	Mississippian	3,000		
Winfield (14)	32-5E	2.000	304.145		6	•	Admire	600		
							"Peacock"	1,400	12	
							"Layton"	2,300	ଛ	
							"Bartlesville"	3,050	21,	
	5	. 8	9700	i i	c		Arbuckle	3,300	ဂ	
Winneld South (45) Miscellaneous	1-33-4E	ន្តន	9,843 27,985	146,11	o ‡	-	noover	T,400		
Total Cowley County		36,230	4,595,418	88,134,198	1,446+	53				
			CRAWFORD COUNTY	COUNTY						
Fair Oak	33-28-22E	ပ္ပ	Combined with Walnut Southeast	Walnut Sou	theast		"Bartlesville"	400		
Hepler* ('17)	27-22E	280	3,631		ල		"Bartlesville"			
"Houston"	3-31-22E	99	2,447		ដុ					
McCune ('29)	30-22E	300	7 159		199		"Bartlesville"			
		1.700	18,356							
St. Paul-Walnut*	28-21E	480	4,170		18		"Bartlesville"	425		
Steimel Walnut Southeast	35-23-21E		no report	•	68	ec	"Bartlesville"	400	15	
b D	 	1,400	11,721		3)			i	
1 0		40	1,032							

Miscellaneous		20	11		н						
Total Crawford County		4,360	49,324	767,984 recorded	337	က					
			DECATUR COUNTY	COUNTY							
Adell Northwest ('52)	34-5-27W	640	109,054	549,314	13	-	LansK.C.	3,664	24	39	
Feely ('52)	2-5-27W	2 00	51,531	161,327	œ		LansK.C.	3,590	14	33	
Hardesty ('52)	22-5-27W	8	61,233	216,240	_		LansK.C.	3,642	12	ස	
Jennings ('51)	25-4-27W	098 8	62,137	327,239	18		Wabaunsee	3,156	- -	æ	
Lom ('85)	W186_6_60	₽	9 188	5 003	-		LansN.C.	5,4 (S	# O		
JOIN (33) Town Post (755)	M196-6-26	₽₹	9,100	0,000	- ۱		LansP.C.	2,007 2,007 2,007	۰ <		
Monaghan (75)	15-2-20W	£ 5	11,497	52 428	7		Lans - K C	2,00 2,00 2,00 2,00 2,00 4,00 4,00 4,00	۲. ۲. ۲.	33	
Pollnow ('53)	4-3-29W	25	67.816	174 168	r 0		Lans - K C	3,734	3 -	3 6	
Van Vleet ('56)	9-1-27W	4	1.134	1,134	· -		Lans - K C	3356	- =	5	
	11-1-27W	640	25,018	25,018	11		LansK.C.	3,324	11		
(35/) 4F-7N	9 1 97117			od mith We			"Penn sand"	3,483	t		
warner morth (30)	M 17-1-7		Compa	Combined with warner	ner		"Penn sand"	3,483	- ∞		
Total Decatur County		3,460	394,389	1,516,411	3	ı –					
			DICKINSON COUNTY	COUNTY							
Ash Grove ('54)	5-15-1臣	009	32,181	79,032	6	-	Mississippian	2,569	က		
Bonaccord ('43)	30-14-1E	20	1,227	41,511	-		"Burgess"	2,483	20 6		
Donaccord Northeast (30) Lost Springs*	23-14-1E 16-4E	1.100	110 report 64.224	Home	46	8	"Chat"	2300	ာ		
Lost Springs North ('45)	22-16-4E	8	382	103,954	8	1	"Chat"	2,300	33		
Lost Springs Northeast ('47)	26-16-4E	160	6,036	43,276	2	8	"Chat"	2,300			
Lost Springs Northwest ('55)	Z0-16-4E	8	22,692		•	ı	Mississippian	7,20,			
Total Dickinson County		2,250	127,645	1,174,630	11	2					
	10 15 905		DOUGLAS COUNTY	COUNTY	5		#I::	8			
Daidwin* (19)	302-CI-2I	40	1.830		\$		Squirre	9			
: :		100	2,030								
c Eudora South	13-21E	3	6,342 no report				"Squirrel"	700			
Total Douglas County	ı	140	10,202	87,713	1 22						
	•			recorded					ļ		

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Table 65.—Oil production in Kansas during 1956, continued

	I ABLE 03.—	Ou proc	ucnon in v	IABLE 65.—On production in Adasas during 1930, continued	1300, 0	OTLLTTC	nea			
	Discourse		Oil production, bbls.		Dag	allo,XI	Producing zone, ft.	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
			EDWARDS COUNTY	COUNTY				•		
Bradbridge ('48)	2-24-16W	120	6,816	109,687	က		Arbuckle	4,020		
Embry ('53)	23-24-16W	8	3,259	16,050	~		LansK.C.	3,789	4	35
			•				"Kinderhook"	4,292	38	
Enlow ('53)	9-24-16W	280 280	51,913	177,873	œ	-	LansK.C.	3,736	7	21
Fatzer ('56)	15-26-17W	40	635	635	-		Viola	4,676	8	
Kirk ('55)	26-26-16W	4	5,117	5,117	-		"Kinderhook"	4,481	8	
Salser ('56)	12-26-16W	40	2,408	2,408	-		Mississippian	4,398	22	
Sturgeon ('54)	33-26-18W	8	7,871	19,851	7		LansK.C.	4,223		
			·	•			Viola	4,721	z.	38
Trousdale ('56)	21-26-16W	40	6,471	6,471	1		Cherokee	4,486	4	
Wayne ('56)	28-24-17W	4	1,735	1,735	-		Mississippian	4,368	16	
Total Edwards County		760	86,225	442,323	02	۱,4				
			ELK COUNTY	UNTY						
Adams (revived) ('56)	29-29-13E	20	342		8		"Burgess"	1.680	က	
Arbuckle	31-9E	099	34,088		∞		"Burgess"	2,250		
Bush-Denton ('20)	4-30-9E		•		83	2	"Stalnaker"	1,060	10	
		180	2,433				"Peru"	2,135		
Q		900	15,933				"Burgess"	2,300	rc	
Clubine	30-10E	40	1,510		-					
Collyer ('24)	30-30-11E	160	7,785		6		Kansas City	1,286	10	
							Fort Scott	1,518		
Dory	18-30-9E	140	1,839		က		Mississippian	2,570		
Dunkleberger ('20)	34-29-10E	260	83,553		32		Kansas City	1,300	9	
							Mississippian	1,970		
Elk City*	31-13E	240	1,305		v		"Burgess"	1,360		
Ferguson East	23-30-8E	9	350		-	-	Arbuckle	2,900		
Fleming ('50)	8-29-9E	9	490				Arbuckle	2,656		
Grand Summit*	3-31-8E	240	12,078		Ξ		Kansas City	2,000 2,000		

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Hale-Inge* ('07)	31-12E				20	-	"Feru"	1,160			
æ		40	616								
р		009	3,742								
ဎ		40	256								
יס		100	4.445								
Key	31-10E	9	4.458		2		Arbuckle	2.270			
Kipfer	29-13E	40	3,123		2		New Albany				
Liscoe	31-10E	10	1,684		-						
Logsden	31-9E	40	274		-		"Rurgee"	9 979			
Logsden Northeast	31-9E	2	Ahand	Abandoned during 1956	1956		Durgess	1,1,1			
Longton	21_19F		Tipani	direa during	19	-	Mississinnian			19	
, in a support	771-10	300	0 00 0		77	4	Mississippidii			70	
م حر		900	1,909								
I ongton Month	20 195	40	1,000		M						
Longton North	29-12E	40	2,423		0			-			
Love	36−08	160	1,597		· co		Mississippian	2,370			
New Albany	29-13E				-		"Wayside"	260	ຂ		
æ		160	120								
p		40	no report								
Perkins	1-30-9臣	120	480		7	1					
Porter	29-8E	280	31.729		11		Kansas City	2.050	10		
							Arbuckle	3,000	4		
Rettig	31-10E	40	2 441		6	6	Lone - K	1,550	•		
Roby ('56)	TOT -TO	2	2 702	2 702	1 c	1	A whitele	9,000	c		
Schuden (39)	10 10 10	200	0,100	201,0	4 0		AI DUCKIE	2,012	9 6		
	12-31-8E	300	20,979		×		Kansas City	1,520	77		
Severy* ('22)	8-28-11E	10	154		-		Kansas City	1,200	13		
Starr ('37)	12-31-9E	120	2,087		က		Mississippian	2,330			
Walker ('27)	5-31-10E				8		Kansas City	1,550			
æ		40	1,119				Mississippian	2,225			
P		80	5,057								
Ware ('55)	5-31-9臣	40	2,224		٦		Kansas City	1.671			
Webb ('25)	23-31-10E	640	33,810		54		Kansas City	1,300			
							Fort Scott	1,650			
							Mississippian	1,975			
							Arbuckle	2,300			
Miscellaneous		40	111		7						
C THE LAYER		1000	000	000 010	6	\$					
10tal Elk County		097'9	300,983	14,952,662 recorded	213	3 .					
			ELLIS COUNTY	OUNTY							
Antonino ('47)	27-14-19W	160	9 686	128 868	4		Arhinekle	3 719	r.	35	
(11)		3	20060	00000	۲		Reagan	3,726	•	3 25	

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TABLE 65.—Oil production in Kansas during 1956, continued

	Discortant		Oil produ	Oil production, bbls.	Ď.	Wolle	Producing zone, ft.	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Antonino Townsite ('49)	2-15-19W	1	no report	32,470	,		Arbuckle	3,697		;
Beeching ('43)	34-15-16W	200	8,554	269,905	9 !	ç	LansK.C.	3,156	₹;	بن بن
bemis-Shutts (35)	W.T-TT-9T	15,600	3,055,079	85,422,605	27.0	2	LansK.C.	3,408	=	35
							Arbuckle	3,380		36
Bielman ('52)	24-15-18W	200	10,964	61,251	က		Arbuckle	3,496	4	32.1
Blue Hill ('37)	14-12-16W	1,280	106,320	2,453,417	33		Topeka	3,030	ъ	
							LansK.C.	3,072	83	
							Gorham	3,348		
							Arbuckle	3,360	9	
Boos ('56)	20-15-17W	8	12,240	12,240	7		Arbuckle	3,532	n	
Braun ('53)	34-13-16W	120	12,693		က		Penn. congl.	3,459	7	32
Brungardt* ('52)	35-10-17W	120	See Rooks Co.		9		LansK.C.	3,194		
Burnett* ('37)	1-11-18W	7,000	1,974,174	49,870,347	266	10	Shawnee	2,937		
							LansK.C.	3,093	4	8 8
							Penn. congl.	3,427		
	:						Simpson	3,603	10	
							Arbuckle	3,570	∞	35
Burnett Northwest* ('46)	3-11-18W	800	211,338	3,108,863	83		LansK.C.	3,450	4	32.5
							Arbuckle	3,617	2	
Burnett Southwest ('46)	22-11-18W	1,600	426,547	5,190,894	င္သ	-	Shawnee	3,074		
							LansK.C.	3,207	20	
							Simpson	3,582	4	
							Arbuckle	3,533	₹.	
Canyons ('48)	11-12-17W		no runs	8,566			LansK.C.	3,361	47	
Catharine ('36)	3-13-17W	400	27,000	1,061,970	ro		LansK.C.	3,262	77	48
			51,297		∞		Arbuckle	$3,\!516$	13	
Catharine Northwest ('44)	4-13-17W	380	68,730	714,154	13		LansK.C.			
							Arbuckle	3,590	ᅜ	
Catharine South ('46)	15-13-17W	1,200	110,887	1,964,262**	44		LansK.C.	3,292	12	32
							Arbuckle	3,555	œ	
a)	9-13-17W	120	26,037	57,250	9		Arbuckle	3,535	18	ß
$\overline{}$	22-11-16W	40	4,059	40,620	-		LansK.C.	3,100	웘	
Cochran ('53)	8-11-18W	40	, 15,193	43,303	-		LansK.C.	333	£	
								2	3	

	٠:		3,524 12	3,430	3,120 16		. :			ArbReagan 3,832 8			3,262	ansK.C. 3,272	3,541 3	- :		3,350	ıd"		3,368 4	LansK.C. 3,527 34		1. 3,857			ickle 3,312 5	5,550	Arbuckie 3,800 20 28	2,403 7,403		d. 3.453 8	3,476	3,865 6	LansK.C. 3,134 38 38	3,215 4	
Lan	Lan	Arb	Arb	Lan	Lan	Arb	Lan	Arb	Lan	1 Arb	Arb	Arb	Lan	Lan	Arb	Lan	Arb	Lan	"Pe	Arb	Lan	Lan	Arb	Pen	Lan	Gor	Arb	reagan	Ton	Arh	Lan	Pen	Arb	1 Arb	1 Lan	Lan	
יט רי	ניי		~	Ñ	ස		12		13	ଛ	Ilis		ĸ	8		7		4			_	-			₽				c	J	٠	•				က	
32,821	108,476			U	762,607		238,692		182,339	1,222,064	Combined with Ellis	Combined with Ellis	312,254	779,491		32,796		20,181			1,061	17,448		1,215	3,670,983			1 200	1,205 53 545	OFO,OO	141,541			6,732	16,032	13,675	
28,759	37,957		6,979	Combined with	100,684		51,357		116,339	71,048	Comp	Comp	20,432	144,599		2,952	*	20,181			1,061	2,956		no report	174,625			***************************************	110 report	0,010	15.004			no report	671	5,557	
320	320		ຂີ		120		200		640	1,600			160	1,200		&		120			40	40			1,000				8	3	320	Ì			4	120	
15-11-20W	15-15-17W		9-15-18W	23-13-17W	21-14-16W		27-14-16W		11-11-20W	31-12-20W	32-12-20W	12-13-21W	4-13-16W	27-12-16W		6-13-16W	:	34-14-18W			33-14-18W	20-12-20W		28-12-20W	8-12-15W			1 14 10117	17_11_19W	M 01-11-11	28-14-17W			28-13 -20W	16-14-16W	17-14-16W	
Cromb ('45) Dechant (revived) ('56)			<u> </u>		Dreiling ('49)		Dreiling Southeast ('53)		Eagle Creek ('54)	Ellis* ('42)	Ellis Northeast ('53)		Emmeram ('37)	Emmeram Northeast ('49)		Emmeram Townsite ('52)		Engel ('56)			Engel West ('56)	Erbert ('53)		Erbert Southeast ('54)	Fairport* ('23)			Fort Home Ctote Col (750)	Giinther ('52)		Herl ('51)	•	:	Herman ('54)	Hertel ('52)	Hertel Southwest ('52)	

Table 65.—Oil production in Kansas during 1956, continued

			Oil production, bbls.	tion, bbls.	اً ا	11.011	Producing zone, ft	g zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	during 1956 to end, 1956		abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Heyl ('56)	20-14-17W	8	7,659	7,659	2		Arbuckle	3,513	2	
	26-12-18W	120	9,700	65,985	4		LansK.C.	3,423	4	34
Irvin ('46)	6-14-19W	2,080	163	1,788,616	-	က	LansK.C.	3,553		
			337,974		45		Arbuckle	3,860		
Irvin East ('55)	4-14-19W	40	4,718	15,287	87		LansK.C.	3,628	18	
Irvin South ('51)	7-14-19W	320	16,387	57,303	ro		LansK.C.	3,660	ιO	
				•			Arbuckle	3,837	77	38.5
Jacob ('51)	6-11-19W	4	1,462	14,394	-		LansK.C.	3,542	4	ន
Karlin ('51)	14-13-17W	ŭ	Combined with Catharine South	Catharine	South		LansK.C.	3,348		37
							Arbuckle	3,477		
Koblitz Northwest ('54)	15-12-18W	120	23,600	51,992	4		Arbuckle	3,730	ĸ	•
Kraus ('36)	22-14-19W		no report	130,486			"Sooy"	3,735	r.	
							Arbuckle	3,732		
Kraus North ('53)	16-14-19W		noreport	none			Arbuckle	3,801		
Kraus West ('55)	20-14-19W	120	8,395	27,031	-		Marmaton	3,834	4	
			7,462		က		Arbuckle	3,819		
Krueger* ('48)	35-10-16W	97	106,026	1,097,792	19		LansK.C.	3,552		
Leiker ('43)	14-15-18W	<u>0</u>	3,359	439,452	87		LansK.C.	3,292		
							Penn. congl.	3,582		
			106,027		ដ		Arbuckle	3,591	v	
Leiker East ('53)	12-15-18W	1,200	144,515	585,135	8		LansK.C.	3,321	∞	
			184,500		21		Arbuckle	3,576	23	
Leiker North ('56)	2-15-18W	120	5,247	5,247	8		Arbuckle	3,601	ĸ	
Leiker Southeast ('54)	14-15-18W	300	57,847	92,223	6		LansK.C.	3,292	13	
							Arbuckle	3,547	4	98
Lieb ('56)	17-11-16W	120	22,760	22,760	9		Arbuckle	3,356	2	
Lookout Hollow ('50)	31-14-18W		no report	1,080			LansK.C.			
							Arbuckle	3,629		
Mendota ('51)	5-11-20W	640	11,743	76,903	κ	-	LansK.C.	3,530	9	32
Wallia Dalla (255)	15 19 1711	6	12 274	12 274	c		Ambuolelo	5, c	-	
Nicholson ('45)	30-11-20W	1.160	146,823	746,023	. S.		Arhuckle	3,221	- 5	34
Nicholson North ('52)	19-11-20W	4	2,507	20,806	-		Lans - K C	3,610	7	5 2
North ('56)	20-15-20W	8	3,355	3,355	-		Penn condi	2,010	1	5
			•				t ciat. coulgi.	2,006		

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3,553 3,569 3,805 3,833	3,842 3,642 3,640 3,535	3,861 3,424	3,556 3,466 3,466 3,422 5,722	88.88888888888888888888888888888888888	3.580 2,222 3,222 3,489 2,513 2,513	3,529 3,629 3,391 3,520 3,520
"Sooy" LansK.C. Marmaton Penn. congl. Arbuckle	Arbuckle Arbuckle Arbuckle Arbuckle Arbuckle LansK.C.	Penn. congl. Arbuckle LansK.C.	Arbuckle LansK.C. LansK.C. Arbuckle LansK.C. LansK.C.	LansK.C. Arbuckle LansK.C. Arbuckle LansK.C. Arbuckle LansK.C.	Penn congl. LansK.C. Shawnee LansK.C. Arbuckle Wabaunsee	LansK.C. Arbuckle LansK.C. Arbuckle LansK.C. Arbuckle
	=		F	Ν .		
321122	42 711	25	20 1 9	18 2 1 18 2 2		121 213
197,154 2,043,719	11,968 56,161 192,590 3,605 31,768	91,539 29,836	492 108,749 2,179,973 835 1,334,656	804,231 57,760 7,177 1,149,877 14,000	1,294 677 605,985 3,362,611	752,284 1,475,200
7,168 4,697 7,790 4,331 194,072	9,800 11,889 49,702 3,605 4,723	40,701 4,083	no report 1,964 102,577 835 28,670	74,497 5,250 12,814 7,177 61,677 14,000	1,294 677 2,682 12,425 146,702 1,953 1,250	72,306 52,069 55,069 72,306 325,539
80 1,600	480 160 360 40	320 40	1,020 40 640	1,280 160 1,000 80	40 40 720 3,500	1,900
13-15-20W 2-14-20W	36-13-20W 19-12-17W 7-13-17W 20-11-16W 17-13-20W	16-13-20W 5-13-17W	9-15-19W 5-11-18W 19-11-18W 32-11-18W	28-12-17W 20-12-17W 34-12-17W 21-15-18W 28-15-18W	21-15-18W 2-13-16W 15-11-19W 28-11-19W	17-13-17W 28-13-17W
Penny-Wann ('36) Pleasant ('44)	Pleasant North (revived) ('56) Pleasant Ridge Southwest ('51) Polifka ('48) Potter ('56) Raynesford ('52)	Raynesford East ('52) Reed ('49)	Reichert ('53) Richards (revived) ('56) Riverview ('43) Riverview South ('56) Ruder ('35)		Schoenchen West ('56) Seitz ('56) Sessin ('52) Solomon ('36)	Sugarloaf ('41) Sugarloaf Southeast ('41)

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Table 65.—Oil production in Kansas during 1956, continued

	i		Oil produc	Oil production, bbls.			Producing	Producing zone, ft.		
Field name and year of discovery	Discovery well location	Area, acres	during 1956	to end, 1956	Pro- Wells ducing abd., wells 1956	Wells abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Sunnydale ('52)	1-14-20W		no report	1,030			Arbuckle	3.850		
Sweet William ('50)	10-12-20W	40	2,024	19,086	1		LansK.C.	3,700		35.5
							Arbuckle	3,908		
Sweet William Northwest ('56) 4-12-20W	6) 4-12-20W	40	196	196	-		LansK.C.	3,739	œ	
Toulon ('35)	3-14-17W	8 89	123,224	683,181	8		LansK.C.	3,298	ro	
,							Arbuckle	3,512	45	
	16-14-17W	120	12,714	25,510	7		Arbuckle	3,504	4	
Trico* ('51)	30-10-20W	40		1,927	-		Arbuckle	3,610	10	
Turkville ('53)	11-11-17W	160	13,577	65,061	4		LansK.C.	3,165	54	
		;	i		•		Arbuckle	3,359		
Ubert (36)	12-13-18W	8	7,038	322,736	2		LansK.C.			
							Arbuckle	3,707		
Ubert North ('51)	31-12-17W	320	44,154	211,973	œ		Arbuckle	3,600		31
Ubert Northwest ('52)	1-13-18W	320	96,102	489,555	13		LansK.C.	3,339		
			90,479		12		Arbuckle	3.592		33
Victoria North ('53)	6-14-16W	8	2,412	13,709	7		Arbuckle	3,471		32
Wagner ('56)	36-14-16W	40	4,201	4,201	-		Arbuckle	3,420	2	
Walter ('36)	2-12-18W	4,200	810,584	9,829,740	125	νc	Toneka	3,160		
							LansK.C.	3,434	œ	
							Arbuckle	3,619	∞	
	3-12-18W	40	1,491	1,491	-		LansK.C.	3,491	15	
Walter Southeast ('54)	13-12-18W		Combine	Combined with Walter	Ħ		Arbuckle	3,653	4	
Warren ('49)	12-11-20W	4	4,209	52,022	-		LansK.C.	3,458		
Weisner ('52)	36-12-20W		no report	1,509			Penn. congl.	3,863	2	
Wheatland ('49)	18-15-17W	200	53,506	301,332	=	-	LansK.C.	3,307	14	
							Arbuckle	3,571		
	12-15-18W	120	9,040	28,871	4	_	Arbuckle	3,586	9	37
Wheatland Southeast ('55)	28-15-17W	300	1,463	27,651	-		LansK.C.	3,335	14	
			9,552		-		Penn. congl.	3,526		
			4,784		-		Arbuckle	3,516	S	32
Wheatland Southwest ('53)	19-15-17W	200	8,895	414,740	-		LansK.C.	3,252		32
			142,863		81		Arbuckle	3,554	တ	
Younger ('44)	6-14-17W	200	45,195	450,009	12		Arbuckle	3,574	2	x
rounger South (34)	8-14-17W	2	11,701	29,250	က		Arbuckle	3.546	7	37
									•	5

Pools or fields abandoned				76,859						
Total Ellis County		68,840	11,618,360	192,577,302**2,063	2,063	4				
		ᄪ	LLSWORT	ELLSWORTH COUNTY						
Andrews ('52)	4-17-8W	320	21,587	108,624	χ		Arbuckle	3,302	က	
Bloomer* ('36)	36-17-11W	2,900	367,818	14,465,230	83		LansK.C.	3,044		43
							Arbuckle	3,257	œ	£ 3
Geneseo-Edwards* ('34)	25-18-8W	3,680	959,529	18,295,290	147		Simpson Arbuckle	3,157 3,278		4 139
Green Garden ('54)	1-17-9W	40	6,762	18,098	87		LansK.C.	3,046	4	40
Heiken ('30)	25-17-10W	640	90,794	498,457	16	87	LansK.C.	2,974		
							Penn. congl. Arbuckle	3,226 3,269		
Heiken North ('42)	24-17-10W	8	6,076	202,233	87		Arbuckle	3,212	8	
Hoch ('56)	19-15-10W		Abandor	Abandoned during 1956	96		Arbuckle	3,304	-	
Kraft-Prusa* ('37)	10-17-11W	800	46,758	1,179,225	13		Shawnee	2,885		
							LansK.C.	3,160		
							Gorham	3,335 9,235 1,235		
							Reagan	3,310		
Kraft-Prusa East ('44)	18-17-10W	40	1,186	16,912	1	87	Arbuckle	3,309		
Lorraine ('34)	13-17-9W	2,000	77,923	10,890,956	33	-	LansK.C.	3,060	ъ	34
							Arbuckle	3,200	120	
Lorraine North ('53)	12-17-9W	120	24,297	81,314	4		LansK.C.	3,066	IJ	
Maes ('52)	26-17-8W	200	188,454	936,451	18	က	Arbuckle	3,341	16	36
Palacky ('49)	31-16-10W	40	1,337	34,829	1		LansK.C. Arbuckle	3,148 3,300	∞ ∞	46
Progress ('55)	10-16-10W	320	82,381	110,329	œ		Arbuckle	3,402	œ	
Progress Northwest ('55)	4-16-10W	320	146,693	176,757	19		Arbuckle	3,303	∞	
Stoltenberg ('31)	22-16-10W	13,200	921,420	39,184,140	313	ដ	LansK.C.	3,260		42
							Simpson	3,379	∾;	ć
Vacek ('44)	32-15-10W	640	31.382	352.248	œ		Arbuckie	2,555 2,255 3,215 3,150	14	88 84
West ('51)	20-17-10W	8	5.371	35,608	0	-	Arhickle	3 287	•	:
Wilkens Southeast ('42)	32-17-9W	320	10,286	475,633	9		Arbuckle	3,220	6	
Total Ellsworth County		26,040	2,990,054	87,062,334	691	22				



TABLE 65.—Oil production in Kansas during 1956, continued

			Oil production, bbls.	tion, bbls.			Producing zone, ft.		
Field name and year of discovery	Discovery well location	Area, acres	during 1956	to end, 1956	Pro- Wells ducing abd., wells 1956	lls	Depth	Thick- ness	Aver. grav.
			FINNEY COUNTY	OUNTY					
Beyer ('52)	24-26-33W	40	953	23,340	-	LansK.C.	4,398	œ	36
Damme ('51)	21-22-33W	1,000	151,657	414,525	17	Mississippian	4,626	9	32
Damme Northeast ('53)	16-22-33W	40	8,558	29,563	1	Mississippian	4,639	10	21
Finnup ('53)	34-22-33W	320	111,419	255,146	∞	Mississippian	4,756	9	ಜ
Finnup East ('53)	25-22-33W	4	972	9,335	-	Marmaton	4,442	16	30
Nunn ('38)	27-21-34W	1,300	86,831	2,284,111	26 2	Kanas City		13	31
						Marmaton "Changleoo"	A KKO		
						Mississippian	4,550	10	
Pleasant Prairie	30-26-34W	40	728	728	-	Mississippian	5,125	ឌ	
Northwest ('56) S_{2}	200 00	ě	,	1	ć		7	Ş	
Sequoyan (50)	17-23-34W	320	5,461	5,461	Ν,	Morrowan	4,694	2	
Sonderegger ('52)	21-22-31W	40	403	6,329	-	Mississippian	4,737		ଝ
Stewart ('52)	6-23-30W	40	4,188	19,992		Mississippian	4,710		83
Total Finney County	•	3,180	371,170	3,048,930	29 2				
			FORD COUNTY	UNTY					
Konds ('56)	11 97 99W	9	1 202	1 202	-	Mississississ	7	33	
Pleasant Valley ('50)	34-27-21W	₽ &	471	17,148	- 8	Mississippian	4,954	145	
Total Bond Country		5	1 569	10 540	1 6	i i			
Total Ford County		160	1,000	10,040	٥				
		_	FRANKLIN COUNTY	COUNTY					
Baldwin* ('19)	15-20E	88	1,142		2	"Squirrel"	003		
TeLoup	15-20臣		,		9	"Squirrel"	750		
03 1			294						
Normon	14 900	5	2,115		-				
Ottawa	17-19E	2 8	375		٦ ٥				
Paola-Rantoul* ('60)	17-21E	ì	;		734	Knobtown	300		
æ		120	3,171				\$		

b c d d f f g g h Miscellaneous		6,000 2,600 100 2,000 2,000 10	191,897 15,782 84,263 3,440 44,160 70 55		-		"Frue" "Squirrel" "Bartlesville"	500 600 700			
Total Franklin County		11,920	347,569	10,242,708 recorded	746	16					
			GOVE COUNTY	DUNTY							1
Beougher ('52) Coberly ('51)	8-13-30W 15-14-29W	80	no report 3,489	652 62,333	2		LansK.C. LansK.C.	4,079	10		
Gove ('51)	26-13-30W	120	9,411	22,467	က		Marmaton LansK.C.	4,287	6 8	33	
Jasper ('51) Lundgren ('52) Lundgren South ('52) Pyramids ('52)	30-15-29W 30-14-29W 31-14-29W 9-15-31W	300	no report no report 12,419 no report	740 4,755 69,713 4,387	83		Mississippian LansK.C. Mississippian Mississippian Marmaton	4,547 3,670 4,306 4,277 4,280	10	40	
Total Gove County		200	25,319	165,047	12						
			GRAHAM COUNTY	COUNTY							,
	15-7-22W 19-6-25W 21-7-25W	600 120 480	4,139 15,028 96,035	77,168 22,015 109,837	221		LansK.C. LansK.C. LansK.C.	3,518 3,740	ကသ	37	
Brassfield ('56) Brush Creek ('55) Cooper* ('43)	2-10-22W 4-9-23W 5-10-20W	$\frac{120}{160}$	7,388 37,120 1,336,702	7,388 55,212 7,564,608	3 8 8 8 8	н	LansK.C. LansK.C. LansK.C.	3,688 3,768 3,619	24 4 0	40	
Cooper North ('53) Crocker ('51) Diebolt* ('53) Dorman ('52) Elrick ('55)	33-9-21W 18-10-21W 33-10-23W 30-10-23W 25-10-24W 15-10-25W	1,460 40 40 160	Combineo no report 634,138 2,645 2,581 10.505	Combined with Cooper preport 20,421 634,138 1,337,454 2,645 17,800 2,531 6,345 10,505 12,711	er 86 11	÷	Arbuckle Arbuckle LansK.C. LansK.C. LansK.C.	3,905 3,905 3,779 3,921 3,954	40401-01	31 19 35 32	
Evergreen ('56) Fargo West ('51)	22-9-23W 34-9-22W	4 4	5,056 806	5,096		-	LansK.C. LansK.C.	3,711 3,755	0 0		

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Table 65.—Oil production in Kansas during 1956, continued

		2 3 3 3		F	,					
	-		Oil produ	Oil production, bbls.	D.C	Molle		Producing zone, ft.		
Field name and year of discovery	we!l location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Faulkner ('45)	27-10-22W	8	9,628	216,017	2		LansK.C.	3,629	8	37
			•	•			Marmaton	3,844		
Gettysburg ('41)	7-8-23W	8	3,908	74,617	8		LansK.C.	3,725	30	
Glen Dale ('55)	23-9-24W		no report	2,474			LansK.C.	3,993	9	
Harmony ('51)	32-7-22W	700	23,775	218,555	6		LansK.C.	3,597		37
			•				Arbuckle	3,776		
Hatcher ('56)	6-9-21W	8	6,761	6,761	7		Arbuckle	3,722	∞	
Highland ('51)	20-8-22W	40	1,887	14,129	-		LansK.C.	3,616		37
Holley ('54)	3-9- 24W	4,430	649,341	893,050	66		LansK.C.	3,900	9	47
Holley North ('55)	29-8 -24W	200	47,599	48,247	2		LansK.C.	3,897	6	
Holley West ('55)	36-8-25W		Combined	≥	Ŋ.		LansK.C.	3.924	9	
Hoof ('54)	9-10-23W	640	232,599	407,523	30		LansK.C.	3,865	4	32
Hoof West ('55)	8-10-23W	8	10,326	28,107	က		LansK.C.	3,903	z.	
Houston ('47)	9 -6-22W		no report	19,516			LansK.C.	3,506		
Huntington ('55)	7-7-25W	160	30,962	36,914	က		LansK.C.	3,832	∞	40.4
Ironclad ('50)	23-9-22W	1,000	55,635	437,995	16		LansK.C.	3,756	9	88
Lacerte ('56)	32-10-22W	4	8,055	8,055	-		LansK.C.	3,602	4	
Laura* ('50)	30-10-20W		Combined	d with Cooper	'n		Arbuckle	3,703	7	30
Law ('51)	34-9-23W	900	98,877	761,111	13	-	LansK.C.	3,922	10	38
			6,005		8		Penn. congl.	4,126		
Law Southeast ('55)	12-10-23W	200	76,187	139,379	6		LansK.C.	3,869		29.6
			24,445		4		Penn. congl.	4,088	11	
Mickleson ('52)	27-8-22W	120	14,242	63,831	က		LansK.C.	3,502		34
							Arbuckle	3,759	16	
Mildrexter ('55)	12-9-23W	8	3,465	5,683	-		LansK.C.	3,814	~	
Morel ('38)	15-9-21W	7,300	1,481,637	21,593,076	220	ro	"Sooy"	3,712		26.5
							Arbuckle	3,718	12	21
$\overline{}$	13-9-21W		Combin	Combined with Morel	티		Arbuckle	3,729	က	22
Morel North ('55)	3-9-21W	80	3,447	6,247	-		Penn. congl.	3,637	ν	
_	23-10-21W		Combine	Combined with Cooper	ï		Arbuckle	3,778	87	30
Muilenburg* ('49)	1-10-21W		Combine	Combined with Cooper			Arbuckle	3,839	က	53
	4-8-24W	28	207,416	504,219	22		LansK.C.	3,738	œ	
Noah ('52)	27-10-21W		Now	Now called Trico			LansK.C.	3,651	2	38
							Arhiickle	3 786	7	

& 4 & £	33		32		é	99	30	46	,	27 6	ş			8	ŀ												
æ 9	4,∞)		က	₹ (٥	4	ន	rc		16	7	2	r.)	•	1				œ		23				
3,756 3,750	3,596 3,594	3,297	3,540	3,776	3,676	3,578	3,740	3,867	3,507	4,013	3.818	3,573	3,351	3,786	3,871	3,539	3,588 3,944				5,103		2,250	2,400	2,445	2,477	2,500
Marmaton LansK.C.	LansK.C. LansK.C.	LansK.C. Arbuckle	Reagan	LansK.C.	LansK.C.	Arbuckle	LansK.C.	LansK.C.	LansK.C.	LansK.C.	Arbuckle	LansK.C.	LansK.C.	Arbuckle LansK.C.	Arbuckle	LansK.C.	Arbuckle Arbuckle				Cherokee		"Bartlesville" "Bartlesville"	Mississippian "Peri"	Mississippian Arbuckle	Mississippian	Arbuckie Mississippian
-				-				-											12				4	-	1		
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2,550 262,760	34,463 38.590	1,240		51,936	9,559	3,005	694,354	48,612	49,150	3,233 43,411	with coope	Now called Trico	926,941	71.010		Now called Trico	10,095	40,578	37,023,819	UNTY	none	COUNTY	now called Atyeo-Pixlee 205,417				
341 12,778	12,691 28,616	no report	!	43,935	7,201	0,140	230,929	19,216	13,149	9,293	Companie	Now	368,990	56.511		Now	no report	•	6,040,225	GRAY COUNTY	no report	GREENWOOD COUNTY	now calle 205,417	61.250		339	7,275
130 130	\$ 8		;	640	6 €	950	1,280	&	æ 9	₽			1,000	009					34,410			ŭ	1,000	640		10	160
33-10-21W 11-8-24W	25-10-23W 31-10-22W	32-5-20W	1	32-9-22W	20-9-22W	W 12-0-12	21-8-25W	10-8-25W	8-8-22W	1-3-23W 5-10-21W	17-01-0	1-11-21W	30-10-20W	14-9-22W		35-10-21W	16-9-22W				29-29-27W		30-21-10E 7-22-10E	27-8E	<u> </u>	27-9E	2-28-8E
Noah Southwest ('54) Penokee ('40)	Prairie Glen ('54) Prairie Glen Southeast ('55)	Ray* ('49)		Red Line ('55)	Ked Line North ('55)	Salid Creek (94)	Schmied ('52)	Schmied Northeast ('54)	Schnebly (52)	Smith Denning (750)	(a) Similar Initia	Spaulding* ('53)	Trico* ('51)	Van ('54)		White Southwest* ('53)	Wild Horse Creek ('50)	Pools or fields abandoned	Total Graham County		Jumbo ('53)		Atyeo* ('25) Atyeo-Pixlee* ('23)	Beaumont (20)		Beaumont North	Beaumont South ('35)

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Table 65.—Oil production in Kansas during 1956, continued

	TABLE 00	מיק זיי	eaction the fa	LABLE 05.—On production in Lainsas auting 1950, continued	1330,0	11110	202			
	ä		Oil production, bbls.	tion, bbls.	ا ا	Trelle	Producing zone, ft.	zone, ft.		
Field name and	Discovery well	Area,	during 1956	40 and 1056	ducing abd.,	abd.,	Neme	Denth	Thick-	Aver.
Jen or micorcia	TOO TOO TOO TOO TOO TOO TOO TOO TOO TOO	actes	neer Summ	Weild, 1990	WCITS	3	Marine	174		
Blackwell ('25)	16-24-13E	320	11,983		_		Mississippian	1,650		
Blankenship* ('21)	26-8E	160	38,726		11		"Bartlesville"	2,650		
Brinegar	26-13E	320	5,147		11		"New Albany"	427	=	
Browning ('24)	22-10E	1,600	400,341		94	-	"Bartlesville"	2,314	당	41
Burkett ('23)	24-23-10E	1,600	179,474		82	4	"Bartlesville"	2,000	88	88
Burt ('49)	8-26-11E	40	2,397		က		Mississippian	1,945		
Climax ('25)	27-11E	8	4,468		7		Mississippian	1,900	12	
DeMalorie-Souder ('24)	22-10E	2,200	681,820		102	က	"Bartlesville"	2,150	22	41
Dunaway* ('22)	34-22-13E	1,600	59,845		49		Mississippian	1,800	12	
Eureka	31-25-11E	1,450	47,614		25	က	Fort Scott	1,750	9	
			•				Mississippian	2,000		
Fankhouser* ('26)	4-22-12E	906	84,827		44	4	"Bartlesville"	1,850	24	4
Ferrel North	28-8E	10	449		-					
Gaffney ('26)	18-24-11E	300	47,842		6		"Bartlesville"	1,850		
Hamilton ('25)	7-24-12E				82	14	"Bartlesville"	1,650	22	
๙		2,000	220,452				Mississippian	1,800		
م		320	9,289							
Hinchman ('27)	17-24-13E	480	8,312		10		Mississippian	1,615		
27	16-23-10E	4	1,727		8		"Bartlesville"	2,150		
Hubbard	22-13E	₽	919		-		Cherokee	1,500		
Jackson	25-8E	160	8,371		က		"Bartlesville"			
Jobes	24-13E	160	2,451		ro		Mississippian	1,700		
0	29-22-13E	2,200	143,784		9 6	12	"Bartlesville"	1,700	42	
Ly-Green* ('54)	5-22-11E	100	2,270		α	-	"Bartlesville"	1,858	S	
Madison	14-22-11E				8		"Bartlesville"	1,800	88	
ď		320	3,199							
D.		1,500	702,163							
Mignot ('51)	9-22-11E	8	5,760		ત્ય		"Bartlesville"	1,921	2	
Neal			no report				Mississippian	1,525		
Ott	7-22-13E	4	1,214		1		Simpson	2,236		
Pixlee ('23)	7-22-10E		Now calle	Now called Atyeo-Pixlee	clee		"Bartlesville"	2,350	8	
Polhamus ('22)	25-9E	1,100	190,575		25		"Bartlesville"	2,180	34	
Quincy* ('26)	11-25-13E	1,280	49,375		40	ນ	"Bartlesville"	1,500	ន	
							Mississippian	1.720		
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Docord	24-26-9E				38		Kansas City	1,380	12	
Treece a		086	20,016				Mississippian	2,100		
; Q		8	1,745							
Sallyards	25-8E	2,600	620,759		169	-	"Bartlesville"	2,350	4	
Scott ('25)	24-23-8E	006	95,007		40		"Bartlesville"	2.525	40	
Seeley-Wick ('22)	28-23-11E	4,600	1,307,443		279	13	"Bartlesville"	1.930	45	
Severy*	28-11E				17		Kansas City	1.200	2	
ď		180	6.960							
Р		100	2,351							
Severy North	27-11E	40	2,017		6		Kansas City	830		
Stanhope	15-26-8E	240	22,520		=	-	Mississippi	9 450	1	
Teeter* ('20)	16-23-9E		210,11		120	10	"Rartlectrille"	007,6	1 9	
o t		2,000	280,225					1,200	2	
Teichgraher (39)	25_8F.	920	1,430		26	-	"Doutleanille"	0 750	2	
3		200	16 506		3	1	Dai desville	2,130	3	
2 0		200	4,149							
, c	10	10	468							
Thrall-Aagard ('Z1)	14-24-9E				292	21	"Bartlesville"	2,170	45	
ρa		3,700	722,675							
	25-11E	240	4,944		2	1	Mississippian	1,830	23	
Toronto* ('13)	16-26-13E				10		"Peru"	1,000		
a Q		160	454				"Bartlesville"	1,700		
Virgil ('16)	14-24-12E		î		156	7	"Bartlesville"	1.550	40	
) _ , ,		3,500	133,780				Mississippian	1,700	12	
Virgil North* ('20)	22-23-13E	5 500	737		986	_	"Routloguillo"	1 707	Š	
()		2006	20,100		907	۲	Mississippian	1,365	125	
Wiggins ('25)	30-24-11E	1,280	42,815		22		"Bartlesville"	1.860	1 72	
Wilkerson ('26)	6-25-9E	400	19,039		13		"Bartlesville"	2,200	48	
Willard	7-27-11E	240	18,754		13		Mississippian	1,900	2	
Winterscheid*	23-14E	10	5,863		-		Mississippian	1 750	2	
Zimmermann ('53)	19-23-10E	20	1,382	10,180	0		"Bartlesville"	2,296		
Miscellaneous		09	6,297		က					
Total Greenwood County		50,530	6,788,601	209,597,693	2,515	103		ı.		
			HAMILTO	HAMILTON COUNTY						
Helfrich ('55)	6-25-42W	40	5 922	15 343	-		Morroman	2 040	-	
			- ata		•		TATOT TO AN CITE	OFO	AT.	

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Table 65.—Oil production in Kansas during 1956, continued

		•								
	į		Oil produ	Oil production, bbls.	ć.	allo M	Producing zone, ft.	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	during 1956 to end, 1956		abd., 1956	Name	Depth	Thick- ness	Aver.
			HARPER COUNTY	COUNTY						
Banner ('54)	27-32-7W	8	28,359	57,210	7		Viola-Simpson	4,833	9	43.5
Banner South ('56)	4-33-7W	8	17,625	17,625	7		Misener	4,848	က	
Berg ('54)	29-32-7W		no report	1,909			Viola	4,758	9	43
Bluff Creek ('52)	24-34-5W	40	no runs	1,284	-		LansK.C.	3,938	ro	82
Grabs ('49)	13-31-9W		Now cal	Now called Spivey-Grabs	irabs		Mississippian	4,400	14	දි
Grabs South ('54)	25-31-9W		Combined v	Combined with Spivey-Grabs	Grabs		Mississippian	4,397		
Miller ('55)	11-33-8W	4	6,023	7,698	-		Misener	4,895	ĸ	
Sharon* ('55)	13-32-10W	400	24,569	28,659	4		Mississippian	4,355	ន	
Spivey-Grabs* ('49)	13-31-9W	7,000	697,241	1,425,560	129	11	Mississippian	4,400	14	ಣ
Spivey-Southeast ('55)	1-31-8W		Combined v	Combined with Spivey-Grabs	Grabs		Mississippian	4,380	2	
Sunny View South ('56)	2-31-9W		Combined v	Combined with Spivey-Grabs	Grabs		Mississippian	4,460	ro.	
Wildcat Creek ('56)	30-34-6W		Abando	Abandoned during 1956	1926		Simpson	5,217	7	
Total Harper County		7,640	773,817	1,539,945	139	#				
			HARVEY COUNTY	COUNTY						
Burrton* ('31)	1-23-4W		Included w	Included with Reno County	ınty		Mississippian	3,266		
Burrton East ('56)	28-23-3W		no report	anon			Mississinnian	3302	20	
Burrton Northeast ('42)	3-23-3W		no report	7.917			"Chat"	3.224	ì	
	32-21-1W	40	2,135	158,934	-		Misener	3,323		41.1
			•	•			"Hunton"	3,274	24	
Halstead ('29)	36-22-2W	1,500	47,168	2,036,606	12		"Chat"	3,005	9	
Harmac*	35-21-3W	160	17,565	17,565	က		"Hunton"	3,521		
Hollow-Nikkel* ('31)	30-22-3W	2,800	105,756	21,279,313	32		"Chat"	3,195	13	40
		Include	s McPherso	Includes McPherson County production	duction		"Hunton"	3,507	14	
							Simpson	3,500		
Jester Creek ('49)	3-24-1E		no report	1,202			LansK.C.	2,637		
Sperling ('35) Pools or fields abandoned	23-22-2W		54,307	744,068 123,238	∞	N	"Hunton"	3,279	16	
					I	1				
Total Harvey County		4,900	226,931	24,368,843	23	က				

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						21																32.5 38 38
			4	21	18	=	∞ ;	16			•						∞ ∞			22	4 W	992
	5,041		4,598	4,580	4,651 4,663	4,284	4,478	4,380									4,748 4,566 4,932			3,732 3,727	4,150 4,511	3,833 3,884 3,794
	Mississippian		Mississippian	Mississippian	Penn. congl. Misissippian	Marmaton	Cherokee	Mississippian					Marmaton	Marmaton "Samirrel"	To Time bo		"Patterson" Morrowan Mississippian	•		Mississippian LansK.C.	Mississippian Viola	Mississippian Mississippian Mississippian
																						-
	11		-	87 1		က	₩,	-	15		1+		2	1	1 00		. H	- 4		9 4		27 3 10
COUNTY	187,100	COUNTY	1,909	76,257	292,266	49,711	,	130	723,573	COUNTY		COUNTY				COUNTY	526,051 5,084	531,135	COUNTY	65,175 118,231		1,061,659 26,415 181,749
HASKELL COUNTY	121,074	HODGEMAN COUNTY	1,909	5,067	87,335	18,318	8,094	130	120,853	JEFFERSON COUNTY	2,000	JOHNSON COUNTY	7,996	no report 117	8,113	KEARNY COUNTY	40,532 5,084	45,616	KINGMAN COUNTY	425 25,131		116,397 7,497 41,879
	720	щ	40	8	999	80	:	40	840	J	10		480	10	490		160 40	200		3 0 0		360 360
	4-27-34W		15-22-25W	24-22-24W	3-24-24W	36-23-22W		16-21-22W					14-22E				23-22-38W 13-26-35W			30-27-4W 16-29-7W		21-28-5W 19-28-5W 11-28-5W
	Pleasant Prairie ('54)		Hallet ('56)	Jetmore ('50)	Purdyville ('51)	Saw Log Creek ('53)	•	Wieland ('56)	Total Hodgeman County		Miscellaneous		Gardner	"Mignot" Prairie Center	Total Johnson County		Patterson ('41) South Side ('56)	Total Kearny County		Bartholomew* ('48) Basil ('53)	•	Broadway ('50) Broadway West ('54) Casley ('52)



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Table 65.—Oil production in Kansas during 1956, continued

			Oil production, bbls.	tion, bbls.			Producing zone, ft.	zone, ft.		
Field name and year of discovery	Discovery well location	Area,	during 1956	to end. 1956	Pro- Wells ducing abd., wells 1956	Wells abd., 1956	Name	Denth	Thick-	Aver.
			9					To location	200	9
Cunningham* ('31)	7-28-11W	1,300	59,661	3,286,225	37		LansK.C.	3,600	83	41
	9-28-5W	909	43,518	383,340	6		Mississippian	3,801		37
Dewey North ('55)	5-28-5W	40	no report	1,251	-		LansK.C.	3,248	က	
	13-27-10W	1,120	132,660	959,551	34	81	LansK.C.	3,806		37.9
			•				Mississippian	4,002	œ	
							Viola	4,270	α	
Evan Mound ('51)	22-27-5W	4	2,381	25,456	-		Mississippian	3,800	16	37
Georgia Spur ('56)	7-28-6W		Abandoned	ō	9		Missisispoian	3,836	10	
Gilchrist ('55)	15-30-7W	640	43,036		2		LansK'C	3,726	ro	
							Mississippian	4,084	33	
Goetz ('56)	29-29-9W	200	15,094	15,034	6		Viola	4,408	9	
Kingman ('27)	16-27-7W		no report	30,000			Mississippian	3,824		
Lansdowne North ('51)	4-28-5W	4040	1,400	24,047	-		Mississippian	3,814	က	32
McCutcheon ('55)	10-27-7W	4	434	2,750	-		Viola	4,103	4	8
Orsemus ('53)	30-29-5W	120	42,760	105,547	4		Viola	4,455	12	₹
							Simpson	4,468		
Orsemus South ('54)	31-29-5W		no report	420			Viola	4,483		
Pat Creek ('46)	20-28-9W	120	25,116	221,734	က	_	Viola	4,406	9	3
			•				Simpson	4,475	8	
$\overline{}$	17-30-7W	ى ا	ombined wit	Combined with Spivey-Grabs	abs		Mississippian	4,147	9	
(,22)	18-30-6W	8	5,744	2,806	N		Simpson	4,502	4	
Reida West ('55)	23-30-7W	8	8,956	10,848	က	_	Mississippian	4,143	က	
Rosedale ('54)	32-29-6W	200	46,249	102,059	œ		LansK.C.	3,691	ĸ	4 3
Spivey ('51)	23-30-8W		Now called	Now called Spivey-Grabs	S		Mississippian	4,205		81
	13-31-9W	11,000	1,060,636	1,930,189	134	-	Mississippian	4,205		೫
Spivey Northwest ('54)	9-30-8W	O	ombined wit	Combined with Spivey-Grabs	abs		Mississippian	4,156		
Spivey West ('55)	17-30-8W	O	ombined wit	Combined with Spivey-Grabs	aps		Mississippian	4,172	12	
Sunny View ('55)	26-30-9W	O	ombined wit	Combined with Spivey-Grabs	abs		Mississippian	4,350	ຂ	
Trenton ('54)	27-29-7W	300	11,623	11,859	v		Mississippian	4,117	9	
Willowdale ('54)	11-29-9W	1,200	297,178	685,605	32	-	Viola	4,502	4	
Zenda ('54)	36-29-9W	ບ	ombined wit	Combined with Spivey-Grabs	aps		Mississippian	4,161	6	
Total Kingman County		19 340	1 987 775	9 300 614	148	1 6				
6			2011/100/-	- Tolonolo	1					
	:		KIOWA COUNTY	OUNTY						
Alford ('44)	14-30-19W	40	1,943	1,943	_		Mississippian	5,040		

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	40	2,277	6,135	-	7	Mississippian Mississippian	4,632	15	
20-30-20W		no report no report	48,223			Mississippian	5,126		
	91 190	7,528	13,907	က		"Kinderhook"	4,761	o	
20-29-18W 9	2 S	8,049 105,820	17,435	72 g		Mississippian	4,890 700 700	œ	
	2 9	23,719	48.472	3 00	-	Mississippian	4,666	14	
	8	13,656	27,002	8		Cherokee	4,599		
15-28-16W	40	474	474	· 		Mississippian Marmaton	4,558 4,680	10	
1,5	1,500	163,466	269,590	36	۱ م				
	ı	LABETTE COUNTY	COUNTY						
33-19E		no report				Bartlesville	540		
	유 :	79		-					
	0	2,110		စ ဉ	-	Arbuckle "Waysida"	820		ន
	0	798		!	4	Fort Scott	09		
•	0	434				"Bartlesville"	1,000		
e •	0	7,467							
¥ ¥		102							
1		286							
ī		329							
4 (요,	1,476							
8 4		3,514 424							
31-17E				13		Bartlesville			
160 20		1,104 616							
34-18E 160	_	4,584		13		Bartlesville	280		;
31-19E 10		8		-	•	Arbuckle	1,191		7 7
32-18E		3		· &	87	"U. Bartlesville"	630		
300		8,054 19,590				"L. Bartlesville" Mississippian	0 0 0 0		
33-18E				37		"Bartlesville"	009	30	
400 40		7,778 109							
	1	no report							

Table 65.—Oil production in Kansas during 1956, continued

		no id no			,					
	Discovorus		Oil production, bbls.	tion, bbls.	Ď	Wolle	Producing zone, ft.	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	ebd., 1956	Name	Depth	Thick- ness	Aver. grav.
Miscellaneous		30	380		က					
Total Labette County		2,330	100,145	690,861 recorded	174	၂ က				
			LANE COUNTY	UNTY						
North Fork ('52)	19-17-29W		no report	10,974			LansK.C. Marmaton	4,333 4,40 0		
		LE/	AVENWORT	LEAVENWORTH COUNTY						
Banker's Life ('41)	3-10-23E	09	4,504		2		McLouth	1,450		
			LINN COUNTY	UNTY						
Beagle		10	279		Н					
Blue Mound Centerville* ('20)			no report		103		"Samirrel"	480		
a a ·		1,280	20,564		2		"Bartlesville"	720		
Ω ၁		54	2.197							
Critzer Goodrich-Parker ('99)	22-22E 25-20-21E		no report		130	-	Cherokee "Squiirrel"	600	8	
accuration arms (22)		200	1.361		6	4	"Bartlesville"	86	3	
; Q		9	469					2		
υr		38	4,112 49							
3 W		1,200	29,117							
LaCygne-Cadmus	20-24E	40	655		126	4	Bandera Labette	150	20	
2, 2		\$	362					3		
υ'		900	15,089							
D 0		200	222 14 237							
) (44		9	106							
g Miscellaneous		25	114 224		6					
					1	ı				

Total Linn County		3,800	89,286	1,028,907 recorded	371	2				
			LOGAN COUNTY	OUNTY						
Oakley ('56)	3-11-32W		no report	none			Marmaton	4,376		
			LYON COUNTY	NUNTY						
Atyeo* ('25)	30-21-10E		Now call	Now called Atyeo-Pixlee	klee		"Bartlesville"	2,200	32	
Atyeo-Pixlee ('23)	7-22-10E	98	110,781		38		"Bartlesville"	2,200 2,200	32	
Bradfield Northwest ('53)	13-21-10E	320	40,175		18	1	Viola Viola	2,522	3	
	4-22-12E	1,280	77,332		41		"Bartlesville"	1,850		41
Ly-Green* ('54)	5-22-11E	200	6,378		₩.	-	"Bartlesville"	1,858		
Ritchey-Moore	34-21-10E	95	2,858		 1 1	•	Mississippian	2,170	ç	
Rock Creek (41) Welch-Mohr ('53)	32-21-11E 30-20-10E	ន្តន	13,621 40		ი —	- 8	"Bartlesville"	2,293	ន្ទ	
Total Lyon County		3,430	349,279	7,537,643	135	lro				
			McPHERSON COUNTY	N COUNTY					ŀ	
Battle Hill ('45)	24-18-1W	40	1 946	51 715	-		"Chat"	2,825	10	
Battle Hill North ('48)	13-18-1W	\$ \$	8,635	89.331	- ۱		Mississippian	2,211	12	36
Bitikofer ('40)	1-20-1W	1	no report	219,539	1	က	"Chat"	2,885	24	88
Bitikofer North ('46)	25-19-1W		no report	9,043			Mississippian	2,83		
Bonaville ('49)	33-17-2W		no report	16,153			Simpson	3,557		
Burk ('48)	7-18-1W	120	8,047	118,918	თ ;		Mississippian	2,781	က	
Canton North (30)	20-18-1 W		23,033 16,861	1 891 708	= £		Chat	2,803 2,83	9 6	
(az) gizanin	17-01-01	3	100,01	1,061,100	7		"Chat"	3,007	3	
Coons ('40)	13-19-1W	40	1,834	14,857	-	Н	"Chat"			
Crowther ('42)	26-17-1W	1,230	200'06	3,295,819	9	ro	"Chat"	2,778		
Georob ('47)	31-17-1W	1,460	256,555	2,652,901	43	4	"Chat"	2,665	က	
Graber* ('34)	32-21-1W	3,600	423,893	12,874,129	110		Misener	3,323		41
							"Hunton"	3,274	24	
Graber North ('51)	4-21-1W	\$	849	3,558	-		Mississippian	2,955		
	10-20-4W	4	2,164	17,287	-		Viola	3,728	œ	88
Groveland South ('53)	14-20-4W	<u>0</u>	71,944	205,778	ۍ ;	,	Viola	3,719	9 ;	ć
Gypsum Creek* ('44)	4-17-1W	400	26,579	476,998	14	-	"Chat"	2,619	14	8
Gypsum Creek South ('53)	9-17-1W 35-21-3W	320	no report 40 569	3,215	7		Mississippian "Hunton"	2,627	4	
11di iliav		j	200674	12261	•		Transa	1	ř	

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Table 65.—Oil production in Kansas during 1956, continued

	Discovery		Oil produ	Oil production, bbls.	Б	Walle	Producing zone, ft	g zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	1	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Harmac East ('56) Henne ('40)	36-21-3W 21-17-1W	800	no report 31.220	none 1.580.421	15		"Hunton" "Chat"	3,528	67 TC	
Hollow-Nikkel* ('31)	30-22-3W	}	Included w	ith Harvey	County		"Chat"	3,195	13.	40
	1-19-2W	840	27,796	941,020	ន	-	"Chat"	2,984	12	37
	35-19-3W	09 6	57,283	3,520,103	음		"Chat"	3,032	14	98
Johnson South ('50)	11-20-3W	40	5,826	13,979	⊷		Mississippian Simpson	3,043 3,514	9	
Lindsborg ('38)	8-17-3W	5,400	311,219	8,277,913	86	ιc	Viola	3,352	77	
Lindshorg South (255)	6-18-3W	990	18 649	3£ 183	<		Simpson	3,360	2.5	
	29-18-2W	1,700	82,152	1,860,915	20.		LansK.C.	2,340	p	38
			•	•			"Chat"	2,967	Π'	
Maxwell ('48)	17-18-1W	160	3 058	49 590	~		V 101a Mississinnian	3,140 2,846	• <u>-</u>	36
Paden ('43)	10-18-1W	1.500	288,175	3.432.765	69	8	"Chat"	2,752	18	3 2
							Viola	3,153		
Paden South ('50)	21-18-1W		Combin	Combined with Paden			Mississippian	2,765	21	
	17-18-2W	æ ;	1,741	29,329	2 5		Simpson	3,675	8	
Kitz-Canton (29)	1-20-2W	14,640	1,470,112	47,856,880	334		LansK.C.	2,324	č	
							"Chat"	2,935	뎚.	
D J TT:11 /250	1111	•	000	000	c		Viola	3,412	41.0	
Rowhim ('36)	28-18-1W	160	10,922	10,922	გ		Cherokee	2,832	э и	я И
(og) financia		1,000	100,10	400,004,0	3		Cimpon	2,004	•	3
Roxbury South ('42)	30-17-1W	009	16,502	470,573	∞		Chat"	2,658	2	
Roxbury Southeast ('43)	20-17-1W		Combined w	Combined with Roxbury	South		"Chat"	2,665	6	
Voshell ('29)	9-21-3W	3,200	238,990	29,270,108	61	က	"Chat"	3,095	12	41
TIT - 1 - 1 - TT	7170 00 70	2	5	1	8	1	Viola	3,301	က	į
Weich-Bornholdt* (24)	33-20-6W	2,500	212,125	22,101,213	88	ი -	"Chat"	3,370	•	₩ 8
WILLIAM (SO)	M C-CT-OC	25	700,300	920,200	3	4	Ferm. congr. Mississippien	3,412	20	Š,
						ı	mord discovery	6,10		
Total McPherson County		43,160	3,967,525	136,435,169	1,070	ဓ္ဌ				
			MARION COUNTY	COUNTY						
Antelope ('47)	33-18-4E	10	1,517		-		"Chat"	2.380		
Antelope North ('48)	28-18-4E	300	25,099		6		Kansas City	1,840	77	

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2,371	9,905	9,213	9 563	2,400	2,10	2,899	3,039	2,471	2,120	2,400	2,330	2,680	2,300	3.020	2,470	2,820	2,800	3,225	2,365			2.350	2,345	2,297	2,500			2.302	3 135	2,474	2,809	2,812	2,770	3,017	
Mississippian	Mississippian	Mississippian	Viola	Viola	"Hunton"	Viola	Simpson	Mississippian	Kansas City	Mississippian	"Chat"	"Chat"	Viola	Simpson	Mississippian	Viola	Mississippian	Viola	Mississippian			"Chat"	Mississippian	Mississippian	Viola		"Chat"	Mississippian	Viola	Wississinnian	"Hunton"	"Hunton"	"Hunton"	Viola	
				cc	•		Н						-	ı	-				19					•	4		-	•					70		33
•	161	77		30	3-	9	1	24	3		4	· cc	-	1	∞		က	-	200			ngs	o 0	20 5	77		œ	6	0	ייי ו	200	67	18	က	467
152	97 003	enon anon	2 182	1011	319	113.609	2,943	261,397			79.316	2					102,071	9,085				Combined with Lost Springs	55,243				55.619	20100	16.713	81,466	166,939	273,518	890,193		35,618,063
152	97 003	no report	no report	67.231	319	38.226	77	107,580	4,927		5.019	3.843	866	1,750	13,372		3,660	2,431			661,116	Combined w	17,879	2,533	******	12,201	9,179	12,762	16,713	8,229	146.825	273,518	51,177	13,689	1,398,229
100	800	8		006	10	300	40	200	160		160	80	100	20	200		320	20		200	8,000	,	1,000	20	070	300	200	009	80	160	480	1,100	480	80	10,500
4-19-4E	34-18-4E	3-19-4E		28-21-4E	31-21-3E	34-18-2E	3-19-2E	31-22-4E	18-23-4E		27-22-4E	6-17-1E	18-21-5E	22-19-2E	7-19-3E		27-19-1E	Z3-19-1E	22-17-4E				10-18-4E	30-17-5E	3-77-AD		19-4E	16-19-4E	7-19-2E	12-22-3E	8-21-3E	7-21-3E	11-21-4E	20-18-2E	
Antelope South ('56) Antelope Southeast ('56)		Beauty South (36)	_	100	Dovle Creek ('56)		Durham South ('54)	Edmonds ('53)	Elbing* ('18)		Elbing North ('47)	Fanska ('43)	Florence ('20)	French Creek ('55)	Hillsboro ('28)	,		_	Lost Springs* ('26)	छ न	000	Lost Springs East (42)	Lost Springs Southeast (48)	Nelson West (53)	reabouy (20)	ದ್ಯ ಎ	Propp	Quarry Siding ('53)	Ratzlaff ('56)		Unger ('55)		Wenger ('47)	Youk ('54)	Total Marion County

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TABLE 65.—Oil production in Kansas during 1956, continued

	Discovery		Oil production, bbls.	tion, bbls.	Pro-	Wells	Producing zone, ft	g zone, ft.		
Field name and year of discovery	well	Area, acres	during 1956	during 1956 to end, 1956	ducing abd., wells 1956		Name	Depth	Thick- ness	Aver. grav.
			MEADE COUNTY	OUNTY						
Adams Ranch ('48)	8-35-30W	6,500	5,456	76,140	4		Marmaton	5,346	40	
Angell ('56)	30-32-29W	40	365	365	-		Morrowan	5.608	፠	
Bond ('54)	32-33-30W	8	1,857	8,867	7	•	Atokan	5,619	12	38
			•			_	Chesteran	5,860	8	
Bromwell ('52)	7-34-29W	40	no runs	2,878	-		Morrowan	5,901		
Bruno ('53)	20-33-30W	4	7,687	38,118	-		Morrowan	5,656	18	37
Bruno Northeast ('53)	16-33-30W	40	10,950	35,078	-		Morrowan	5,721	9	33
Kismet East ('53)	30-33-30W	8	1,362	1,362	~		Morrowan	5,645		
Leslie ('55)	3-33-30W		Combined	Combined with Stevens	su		Morrowan	5,668	16	
McKinney* ('50)	2-34-26W	1,200	22,908	91,933	20		Mississippian	5,762	99	
Novinger ('51)	26-33-30W	2,420	183,194	1,665,270	35	_	Marmaton	5,270	8	41
			4,010		_		Morrowan	5,765	21	
			990		-		Mississippian	5,803		
Novinger Northwest ('55)	15-33-30W	8	17,293	22,400	8		LansK.C.	4,553	S	
Plains ('56)	17-32-30W	40	249	249			Morrowan	5,611	ee	
<u>ء</u>	20-33-29W	300	45,247	45,247	1		Morrowan	5.803		
Singley South ('56)	32-33-29W	160	9,393	9,393	4		Morrowan	5,810	16	
Stevens ('52)	32-32-30W	1,960	178,180	203,000	16	•	Morrowan	5,560		
Total Meade County		12,980	489,144	2,200,300	96	ı 				
			MIAMI COUNTY	DUNTY						
Booklo	10 99E	9	959		-					
Deagle	12-27 10 9/F	9	266 460		-1 cr					
Block	18-24E	3	20		~ ≃	Ī	"Squirrel"	200	16	
	}	480	6 257		2		,		2	
2, 2		Ş	1,062							
ນິບ		8 &	1,257							
Louisburg	17-25E	3			102		Knobtown	270		
0]. :	680	21,335		<u> </u>		"Peru"	430		
م،		8	255				"Sauirrel"	009		
: 0		640	12,528				•	}		
d Dools Bontonia (20)	F 20	10	1,710							
r aoia-framour (00) a	11-435	3.700	414 787		1,104	4	Knobtown	<u></u>	33	
		3	101,212			•	nepier	€	15	

10		-
89 20		21
96.90	006	1,320 400 600 1,000 1,300
"Peru" "Squirrel" "Bartlesville"	"Bartlesville" Arbuckle	"Bartlesville" "Wayside" Fort Scott "Bartlesville" Arbuckle
144	က	6
21 7.249	33	30 413
16,568,770 recorded	MONTGOMERY COUNTY 0 4,704 0 144 0 244 0 1,032	
7,924 440 100,020 5,195 615 51,655 700 347 333 1,914 6,639 6,74 1,311 1,321 1,325 1,	4,704 144 244 1,032	23,275 8,661 5,236 979 3,090
300 300 1,200 1,200 1,200 10 10 10 10 10 10 10 10 10 10 10 10 1	MC 200 10 10 40	300 10 40
	32-16E	35-14E 33-17E
b c c d d e e e e e e e e e e e e e e e e	Brewster a b c c	e Caney Coffeyville-Cherryvale* ('02) a b c

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	ř		Oil production, bbls.		2	Welle	Producing zone, ft.	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing a	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
p		4.500	39.777							
Ð		400	49,370							
44		2	18,379							
500 -		2	140							
4		₽:	1,341							
		9	2,130							
•		01	452							
-*4		10	298							
-		2,400	19,144							
н		100	5,167							
п		40	1,446							
Coleman ('21)	28-32-14E	909	2,420		6	-	Arbuckle	1,700		
Elk City*	31-13E	10	484		-		Marmaton			
Jefferson-Sycamore ('03)	18-33-15E				380	23	"Weiser"	003	15	
ď		21	687				"Bartlesville"	1,200		
2,0		4	2,675							
ນິບ		4	2,833							
,		1 000	25,830							
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÷		1 200	424							
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- · ·		2	230							
		100	4.480							
. #		.01	43							
ជ		28	14,092							
0		10	69							
Ω		009	5,815							
ਂ ਠਾਂ		901	4,512							
H		1,000	14,748							
ß		100	1,761							
٠ ' ب	,	4	669		9	(;			
Neodesha*	31-16E	ç	97.0		707	N	"Bartlesville"	920		
æ		3	346							
α		₹	10,628							

		22			45	က	9 ;	22 2	24							∞ c₁
	800 1,250	575 700 1,200			2,220	2,929	3,090	2,208	2,183			4.210	4,990			2,826 2,879 3,559
	"Weiser" "Bartlesville"	"Wayside" "Weiser" "Bartlesville"			Mississippian	v jola Viola	Viola	Mississippian	Mississippian			Morrowan Morrowan	Atokan Morrowan			"Hunton" "Hunton" Viola
	80	8	153					•	- 1	1						က
	153 92	625	1,843		4	ຕ		4	# 1	ន		20 20	<u>-1 го</u>	67		0 m
			44,554,707 1 recorded	COUNTY	31,363	15,539 15,539	284,246	91,568	133,835	557,239 recorded	COUNTY	16,811** 453,896	10,323 25,491**	506,521	COUNTY	59,974 165,562
488 12,781 1,611 10,121	31,957	812 214,064 2,522 977	748,019	MORRIS COUNTY	2,436	15,539	229,123	5,823	15,768	268,689	MORTON COUNTY	6,205 305,171	9,494 25,119	345,989	NEMAHA COUNTY	6,578 18,175
1,300 40 600 10	3,200	9,800 100 200	44,010		200	120	006	240	260	1,720		120 1,960	40 600	2,720		80 160
	32-14E 13-35-14E	34-14E			15-17-5E	24-16-9E	26-15-9E	25-16-5E	32-16-5E			14-33-42W 29-34-43W	17-32-40W 34-34-42W			13-2-14E 27-2-14E
O TO O THAN DO	Sorghum Hollow Tyro ('04) a b	Wayside-Havana* ('04) a b b C Miscellaneous	Total Montgomery County		Burdick ('49)	Comiskey Northeast ('56)	John Creek ('53)	Three Mile Creek ('50)	Three Mile Creek South ('50)	Total Morris County		Boehm ('51) Interstate ('54)	Richfield ('48) Taloga ('55)	Total Morton County		Sabetha ('50) Strahm ('48)

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TABLE 65.—	

	TABLE 65.	Oil prod	Table 65.—Oil production in Kansas during 1956, continued	ınsas during	1956, c	ontin	pen			
	Discourse		Oil production, bbls.		Q.Q	Wells	Producing zone, ft.	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Strahm East ('53)	26-2-14E	20	73	7,744	1		"Hunton"	2,826	11	
Total Nemaha County		260	24,826	233,280	1 9	۱ ده ا				
			NEOSHO COUNTY	OUNTY						
Erie ('03)	28-20E				241		"Bartlesville"	650	22	
. ca -		3,000	55,489							
၀ ပ		32	2,197 298							
d Humboldt-Chanute*	97_18E	1,200	24,892		1 934	ş	"Rartlesville"	200	8	
	701-17	9	356		100,1	1	Dat steel title	3	3	
1. Q		1 1 2	2,606							
٥,		10,000	368,714							
ס		9	1,072							
ወ ቍ		2 5	2,831 89							
1 500		39	88							
n.		1,100	13,390							
•=== *		25	298							
-		\$ €	1,087							
4		01	0000							
, E		28	3,203							
п		200	5,745							
0		40	893							
Q.	1	9	536							
Kimbali Morehead	30-30-18E		no report		45	ç	"Bartlearille"	020		
550		ę	6 309		P	3	חמו מבפא דווב	3		
5 . 2 .		300	27,664							
St. Paul-Walnut*	29-21E	OT .	ô		115	g	"Bartlesville"	550		
æc		1,500	53,922			,		}		
2 0		22	118							
ਰ		180	3,614							

			Oil	an	d G	as	De	v	ele	op [,]	me	ent	s,	195	6				19	7	
			34		34												31		32	31	31.2
			87	4 0	21	4	2	7		99	9 9	28	7	4			12		13	-	6
530			4,428	4,325	4,398	4,528	4,556	4,045	4,438	4,549	4,100	4.272	4,385	4,419			3,778	3,297	3,575	3,544 3,605	3,650
"Bartlesville" "Bartlesville"			Warsaw	Marmaton Penn. congl.	Mississippian Fort Scott	Warsaw Cherokee	Mississippian	Cherokee	Mississippian	Warsaw	Mississippian	Marmaton	Marmaton	Mississippian			Arbuckle	LansK.C.	Arbuckle Reagan	Arbuckle Arbuckle	Arbuckle
н	31		-												۱ ا						
33 1	1,702		25	8	เว	1	1	00	c	40	1	н	-		91		117	ro		2	1
	24,255,436 recorded	UNTY	3,627,095	00),417	424,972	1,446	6,161	76,258	none	8 411	0,111	2,238	10,277	7,581	4,435,353	COUNTY	2,549,353	391,050		none 21,254	202,807
238 60 4,930 297 31,807 3,923 2,944	638,149	NESS COUNTY	254,190	110,011	25,298	1,446	6,161	69,992	no report	8 411	0,411	2,238	7,529	no report	485,642	NORTON COUNTY	853,816	34,907		no report 6,775	24,209
10000 2000	20,250		5,340	920	300	40	40	320	6	8 8	8	40	40		7,100		2,180	340		80	200
29-17E 28-21E 28-18E			7-18-25W	W62-11-62	22-16-25W	23-16-22W	4-19-26W	36-16-21W	28-17-26W	35-18-21W	W17-01-00	22-19-23W	6-17-24W	W 12-61-40			36-3-24W	32-5-20W		13-5-21W 22-5-21W	26-5-21W
e f Thayer" Trent a b Urbana Miscellaneous	Total Neosho County		Aldrich ('29)	Aldrich Northeast (54)	Arnold ('43)	Brownell ('56)	Cruce ('56)	Davenport ('55)	Kansada West ('50)	Manteno (43)	tyersee (oo)	Schoharie ('56)	Vermilion ('55)	Wellmanville (30) Pools or fields abandoned	Total Ness County		Norton ('53)	Ray* ('40)		Ray North ('54) Ray Northwest ('53)	Ray West ('45)



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	TABLE 65.—	Oil proc	TABLE 65.—Oil production in Kansas during 1956, continued	ınsas during	1956, c	ontin	pen			
	Discovery	Area	Oil production, bbls.		Pro-	Wells	Producing zone, ft	. !		
Field name and year of discovery	well	acres	during 1956	to end, 1956	ducing ebd., wells 1956	ebd., 1956	Name	Depth	Thick- ness	Ave grav.
Pools or fields abandoned				32,054						
Total Norton County		2,800	919,707	3,196,518	131					
			OSBORNE COUNTY	COUNTY						
Ruggles ('52)	23-10-15W	640	84,894	413,340	12		Shawnee	2,986		30
							LansK.C. Penn. congl.	3,334 3,334		16
			PAWNEE COUNTY	OUNTY						
Ash Creek* ('47)	31-20-15W	94	no report	240,495	⊣,	,	Arbuckle	3,787	ç	
Ash Creek Southwest (47) Benson (45)	11-21-16W $30-23-15W$	1,800	3,820 166.540	121,U24 876,064	77	-	Arbuckie LansK.C.	3,853	3 8	
Carpenter ('55)	25-23-17W	120	5,621	6,852	က	l	Marmaton	4,123	Ş	
	1			į			PennMiss.	4,138	3`	
Carpenter West ('55)	Z6-Z3-I7W		no report	5/3			Cherokee	4,440 0.00 0.00	4	
Conking (33) Dunes ('53)	22-22-15W	089	73,000	270,554	œ		Arbuckle	3,956	24	
Dunes Southwest ('53)	33-22-15W	8	4,912	27,596	-		LansK.C.	3,728	∞	8
Evers ('51)	1-22-16W	400	58,309	289,548	9	က	LansK.C.	3,525	9	34
							Penn. congl.	3,814	•	
							Simpson	8,61 8,00 1,00 1,00 1,00 1,00 1,00 1,00 1,0	4 5	
Evers Northeast ('53)	31-21-15W	40	155	7.570	1	-	Arbuckle	3.915	1	39
Garfield ('47)	17-23-17W	8,000	1,885,915	2,971,316	22 23 23	က	PennMiss.	4,279		
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;							"Kinderhook"	4,276	ro	
Garfield Southwest ('54)	30-23-17W		no report	none			Mississippian Misener	4,317		
Garfield West ('55)	3-23-18W	8	2,627	7,520	87		Penn. congl.	4,310	E	
Godrey ('56)	12-22-18W		Abandone	Abandoned during 1956	9	,	Penn. congl.	4,127	9	
Hearn ('53)	35-23-15W	8	9,825	22,298	N	-	LansK.C.	3,833 2,833 2,5	Ľ	
Jay ('54)	3-23-15W	480	20.770	123,995	က		LansK.C.	3,668	•	
			47,563	•	œ		Simpson	4,025	14	
Jay South ('56)	9-23-15W	4	9,015	9,015	6	,	Simpson	4,101	9 1	
Larned (49) Larned Southwest ('56)	5-22-16W	300	26.975	26.975	% ~	-	Arbuckie Arbuckie	3,877 2,877	n c	
	:	3	2001		•		TI DACAIC	0,00,0	•	

Lovett ('54)	35-22-15W	120	10,439	25,212	~ ~		LansK.C.	3,682	x	3/
Newsom ('55)	25-20-20 W	640	191 990	306 490	⊣ €		Mississippian Donn gongl	4,270	o u	90
Oro West ('53)	9-20-19W	040	121,000	3 501	3		Donn congl.	4,204	,	20
Pawnee Rock* ('36)	13-20-16W	3.000	226.106	4.097.518	55	4	Arbuckle	3 832	16	
9	8-20-16W	300	14,506	313,718	'n	٠,	Arbuckle	3.815	6	
Ryan* ('45)	35-19-16W	320	15,784	551,476	4		Arbuckle	3,656	S	32
Ryan Southeast ('45)	12-20-16W	300	6,398	332,042	6		Arbuckle	3,688	က	
	35-22-16W		no report	6,038			Arbuckle	4,067		
01	3-23-16W	120	18,698	70,524	က		LansK.C.	3,705	S	
Shiley ('54)	14-20-20W	200	40,044	108,787	7		Penn. congl.	4,173	2	
Shiley East ('54)	18-20-19W	120	53,452	112,592	∞	-	Cherokee	4,223	8	38
Sweeney ('53)	8-21-15W	009	9,767	39,739	10		Arbuckle	3,831		
Sweeney Southwest ('55)	25-21-16W	40	3,254	6,554	7	-1	Arbuckle	3,901	က	
Zook ('42)	16-23-16W		no report	7,016	1	1	Arbuckle	4,066		
Total Pawnee County		20,540	3,411,011	13,045,133	487	18				
			PHILLIPS COUNTY	COUNTY						
Beckman ('51)	3-4-19W	40	1,683	11,152	1		LansK.C.	3,201	4	
Bow Creek ('39)	25-5-18W	120	3,699		က		LansK.C.	3,111	23	
	36-2-19W	1,540	40,153	7	17		LansK.C.	3,430	œ	
Fredericksburg (52)	4-1-18W	40	2,646	14,362	-		LansK.C.	3,457	က	
Glenwood ('51)	21-1-17W	8	4,843		7		LansK.C.	3,597	77	37
Hansen ('43)	14-5-20W	1,280	184,161	2,757,070	37		LansK.C.	3,363		
	. 1		1				Arbuckle	3,530	9	
S	15-5-20W	40	5,428	27,263	-		Arbuckle	3,543	11	
	6-2-18W	5,640	265,288	3,546,937	127	2	LansK.C.	3,444	36	
Huffstutter Southwest ('51)	23-2-19W	200	17,603	136,390	ນ		LansK.C.	3,458	4	
Kent ('51)	22-1-18W	1	no report	1,472			LansK.C.	3,432		
Logan ('45)	3-5-20W	450	27,147	472,504	11		LansK.C.	3,149		
Mont Col (154)	1 1 10117	000	97 OEA	01010	M		Arbuckle	3,381	•	
MOIII-301 (94)	MET-4-100	2007	400,12	94,019	9		LansP.C.	3,233	2	
ray* (40)	M 02-C-26	4,000	1,130,149	19,380,503	14/		Arhickle	3,237		
							Readan	3,540	13	39
Slinker ('51)	25-4-20W	200	19.751	126.271	rc.		Lans - K C	3.215	3 0	38
Stuttgart ('50)	14-3-19W	640	47,699	312,317	13		Lans - K C	3 146	6	37
Stuttgart South ('51)	23-3-19W	40	2,677	22,917	-	1	Lans - K.C.	3 291	e er	5
_	16-4-19W	40	2,074	5.718	1		LansK.C.	3.212	0	
Pools or fields abandoned				1,596						
Total Phillins County		14.520	1 842 060	23 210 856	377	١٠٠				

TABLE 65.—Oil production in Kansas during 1956, continued

								10		
	Discovery		Oil produc	Oil production, bbls.	Pro- W	Wells -	Froaucing zone, it.	g zone, rt.		
Field name and year of discovery	well	Area, acres	during 1956	to end, 1956			Name	Depth	Thick- ness	Aver. grav.
			PRATT COUNTY	NUL						
Blowout ('52)	8-27-14W	40	1,708	9,761	-	Н	LansK.C.	3,929	7	
Cairo North ('54)	6-28-11W	80	10,779	39,526	2		Viola	4,314	4	37
Carver-Robbins	10-27-15W	160	1,118	1,118	N	-	Penn. congl.	4,400	6	
Chance ('46)	4-27-13W	1.600	255.027	3.219.555	72	-	Marmaton	4,137		34.3
						_	Mississippian	4,254		34
							Viola	4,250	10	
						01	Simpson	4,380		
						~	Arbuckle	4,432	22	
Chance East ('52)	34-26-13W	320	8,730	261,982	-	_	LansK.C.	3,984	œ	37
			53,286		7	_	Mississippian	4,138		
			15,195		7	_	Viola	4,261	16	
			13,480		87	02	Simpson	4,296		
						•	Arbuckle	4,323		
Chance North ('54)	21-26-13W	8	1,962	11,839	7	01	Simpson	4,421	9	33
Chance Northwest ('54)	29-26-13W	120	13,026	67,754	က	U 2	Simpson	4,422	œ	35
Chitwood ('43)	23-28-12W	2,000	419,060	8,481,898	69	_	ansK.C.			
							Viola			
						•-	Simpson	4,396	14	
						7	Arbuckle			
Clara* ('48)	36-29-14W	140	8,111	194,297	ro.	ינט	Simpson	4,472	4	9
Coats ('44)	24-29-14W	200	9,935	433,806	×	<i>J</i> 2 ~	Simpson	4,402	77	
Coats North ('54)	12-29-14W	8	18,216	89,483	8	4 🛱	Arbuckie Karmaton	4,342	10	23
				•		01	Simpson	4,584	16	
Cullison ('56)	25-28-15W	40	2,788	2,788		A	Mississippian	4,543	13	
Cunningham* ('31)	7-28-11W	4,800	84,017	4,898,646	. 29	1 2	ansK.C.	3,390	2	41
; ;		į	, ,	į		– 1	Viola	4,330		
Earl ('54)	36-28-14W	200	17,934	84,477	4	۰,	ansK.C.	4,223	;	
End North OFF	96 90 1ATA	•	7 7 1 5	0660	-	<i>0</i> 2 0	Simpson	4,520	14	
Fitzgimmone ('K2)	20-27-13W	150	27,130	116,000	-1 и	2⊢	Tone IV	4,435 4 056	٦ °	
Fitzsimmons South ('54)	31-27-13W	38	52,431	89,617	· ·	٦ <u>-</u>	ans - K C	4,000	•	88
	: :	8	1)	12(2)			mnoon	1 42K	4	88
						,,	Simpson	4,400	⋛	క

Frisbie ('43) Frisbie Northeast ('48)	5-26-13W 4-26-13W	400 400	54,091 30,774	460,904 308,692	9		LansK.C. LansK.C.	3,947	861	27	
Gereke ('53) Haskins ('56)	12-26-15W 5-27-14W	80	no report 4,598	28,021 4,598	87	=	Viola Simpson Viola LansK.C.	4,274 4,376 4,118	7 7 × 5	38	
Hertlein ('53) Iuka-Carmi ('37)	22-28-13W 11-27-13W	8,780	no report 84,852 1 219	307 18,091,318	17	9	Viola LansK.C. LansK.C. Miscissinnian	3,924 4,104 4,104	31 8		
Iuka-Carmi Northwest ('53)	26-26-13W	400	68,477 1,085,771 231,971 19,537	95,914	13 164 43 6		Viola Simpson Arbuckle Viola	4,195 4,292 4,354 4,217	16	37	
Jarboe ('52)	25-26-14W		no report	1,267			Arbuckle LansK.C.	3,834 3,834	18		
Lion ('53) Lion Northeast ('54)	29-27-11W 21-27-11W	40	no report 8,552 1,959	none 25,132 26,156			Viola LansK.C.	3,736 8,4323 1,736 1,000	es (38	
Luuwick (**) Moore ('49)	1-26-14W		18,115	220,038	. 27		Viola	4,234	i	37	
Moore Southwest ('53)	11-26-14W	640	41,330 21,071	121,227	10°		Simpson LansK.C. Kinderhookian	4,348 3,846 4,246		88	
Randle ('55) Shriver ('44) Stark ('41)	5-26-14W 33-29-14W 18-26-11W	100 300 40	13,961 25,475 240	19,813 768,223 859,316	2 6 1	9	Simpson LansK.C. Simpson LansK.C.	3,946 3,946 3,601	7000		
Stoops ('46) Stoops Southwest ('46) Tatlock ('54)	7-29-12W 24-29-13W 28-26-15W	80 94 94	1,910 852 18,200	93,910 18,305 35,497	818		viola Viola Viola LansK.C.	4,446 4,483 3,925	/ 20 4	33	
Total Pratt County		22,140	2,762,605	39,201,314	264	នេ					
Brumm ('56)	7-2-36W	40	RAWLINS COUNTY 904 904	COUNTY 904			LansK.C.	4,312	17		
Abbvville ('27)	24-24-8W	1,040	RENO COUNTY 55,518 965,	OUNTY 965,727	15		LansK.C.	3,540	6	æ	
Albion ('48)	14-26-6W	100	1,224	29,590	က		LansK.C. "Chat"	3,342 3,654		31	



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Table 65.—Oil production in Kansas during 1956, continued

			Oil produ	Oil production, bbls.			Producing zone, ft.	zone, ft.		
Field name and year of discovery	Discovery well location	Area, acres	during 1956	to end, 1956	Pro- Wells ducing abd., wells 1956	Wells abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Albion North ('50)	14-26-6W		no report	191			Viola	3.997		
(,53)	36-23-5W	40	7,285	23,104	7		Mississippian	3,382	83	88
Beck ('55)	24-23-9W	4	10,074	12,062	П		Penn. congl.	3,711	4	
Buhler ('38)	25-22-5W	1,200	74,752	1,301,465	15		Viola	3,890	ro	
			•				Simpson	3,897	42	
Burrton* ('31)	1-23-4W	11,200	787,866	50,710,939	329	4	Mississippian	3,266		ĸ
		Incluc	les Harvey (Includes Harvey County production	ıction		"Hunton"	3,583		42
Castleton ('55)	29-25-6W	4	4,332	7,841	-		Misener	3,992	9	36.7
Grove ('54)	12-25-10W		no report	739			Mississippian	3.884		
Haven ('51)	9-25-4W	80	3,537	28,173	~		Simpson	3,977	4	ဓ
Hilger ('34)	16-26-4W	906	28,267	4,811,537	9	_	Viola	4,062	'n	
Hilger Southwest ('55)	29-26-4W	160	25,839	88,198	4		Misener	3,955		
			36,786		v		Viola	4,012	4	
	21-26-9W	40	3,080	140,218	-		Viola	4,177	=	į
	17-24-8W	40	2,058	49,168	-		LansK.C.	3,180	15	ထ က
Morton Southeast ('51)	16-24-8W	4	1,922	12,861	- -1		LansK.C.	3,423	12	တ္တ
Nicklaus ('52)	3-26-4W	120	32,368	59,034	4		LansK.C.	3,249	က	œ က
Sankey ('51)	22-22-10W	80	737	28,438	ο .	-	LansK.C.	3,187	∞	ထွ က
Sankey Southwest ('52)	21-22-10W	40	no runs	16,830	-		Viola	3,543	~	9
Sterling* ('51)	4-22-8W	400	50,023	127,153	တ		Mississippian	3,335	21	34
Yoder ('35)	34-24-5W		no report	93,285			"Chat"	3,450	21	
Zenith-Peace Creek ('41)	21-23-10W	.	Included with	ಸ್ಟ್	unty	9	Viola	3,773		
Pools or fields abandoned				2,590,055						
Total Reno County		15,560	1,125,678	61,137,234	405	딾				
			RICE COUNTY	UNTY						
Bell ('53)	9-21-10W	160	34,522	113,106	4		Arbuckle	3,391	4	33
$\overline{}$	35-19-9W	8	2,502	24,983	~ 1	~	Arbuckle	3,332		34
Bloomer* ('36)	36-17-11W	1,500	444,542	15,368,270	11		LansK.C.	3,044	٥	& 5
Bouman North ('48)	16-19-10W	40	מונה טם	13 699	-		Arbuckle	33.5	0	2
Bredfeldt ('48)	7-18-9W	125	4.610	97,893	1 673		Arbuckle	3,226	œ	
Bredfeldt Northwest ('56)	12-18-10W	4	4,581	4,581	-		Arbuckle	3,250	ro	
it ('39)	12-18-10W		no report	60,191		_	Arbuckle	3,260		
Bushton ('54)	11-18-10W		no report	392			Arbuckle	3.281		

Calf Creek ('50)	28-18-10W	200	21,453	166,540	9		Precambrian	3,143	9 5	40
Can Creek North (32) Chase-Silica* (31)	32-18-10 W	36,000	760,121	101,515,427	902	33	LansK.C. Basal Penn	2,942	32	40
							sand"	3,355	∞	
							Simpson Arbuckle	3,242 3,252	10	48
Click ('52)	3-18-7W		no report	5,938			LansK.C.	3,020		
Click Southeast ('47)	11-18-7W	80	5,823	54,989	က		LansK.C.	3.065	'n	
Crawford ('53)	12-18-7W	320	62,369	174,379	21		Penn. congl.	3,194	2	40
	1-18-7W	4	no runs	832	-		Penn. congl.	3,207	က	
Crawford Southeast ('54)	20-18-6W	8	2,535	8,633	7		Penn. congl.	3.276	9	\$
Dymond ('55)	18-21-7W	8	1,259	1,944	~	8	Mississippian	3,392	2,	
Engelland ('49)	34-20-7W	40	no report	11,073	-		Penn. congl.	3,348	9	
Fair ('52)	15-21-10W	9 8	676	5,972	۽ ٻ		Penn. congl.	3,35 8,65 8,66 8,66 8,66 8,66 8,66 8,66 8,6	9	\$
Fainer (32)	44-10-10 W	95	49,035	301,502	? -	-	Donn cond	0,526 0,919	ء د	2
riederick (51)	M 6-81-01	TOO	100,020	776,261	- 1	-	Feilli. congi. Simpson	3,280	85	
Galt ('52)	8-18-7W	200	6.830	82.241	4		Arbuckle	3,193	4	
Geneseo-Edwards* ('34)	25-18-8W	6,900	1,824,370	40,367,241	293	œ	LansK.C.	2,787		33
		·	•	•			Penn. congl.	3,222		
							Simpson	3,180		දූ
							Arbuckle	3,132		41
Glen Sharrald ('50)	20-18-10W	120	2,197	36,000	က		LansK.C.	3,118	22	40
Green ('53)	14-19-6W		no report	618			Mississippian	88 9		
Guldner ('55)	17-18-9W	,	no report	none	1		Arbuckle	3,250		
Heinz ('38)	8-18-10W	300	10,100	330,502	_		LansK.C.	3,000	į	
		i	1		•		Arbuckle	3,254	14	\$
(0c.) IXI	4-19-10W	902	23,500	228,129	ဘ		LansK.C.	3,068	8	40
(67)		•	:	;	;		Arbuckle	3,308	23	
Keller (43)	3-19-9W		combined v	Combined with Chase-Silica	nca T		;			
Lyons ('49)	14-20-8W	40	877	74,559	-		LansK.C.	3,226		
							renn. congi.	5	5	
							Misener Arbuckle	9,510 2,977	9	
Mary Ida* ('50)	31-18-10W	640	52,944	615,709	15		LansK.C.	3,033		36
							Arbuckle	3,272		
Meadowside* ('49)	24-18-11W	120	26,096	44,502	က		LansK.C.	3,079	12	38
Munyon ('50)	34-18-10W	120	20,345	78,607	က	-	"Sooy"	3,270		43
!	:						Arbuckle	3,275		
Munyon East ('53)	34-18-10W		no report	5,234			Arbuckle	3,274		



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Table 65.—Oil production in Kansas during 1956, continued

		•		,						
	Dispose		Oil production, bbls.	tion, bbls.	Ď.	Wells	Producing zone, ft.	g zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Munyon South ('51)	3-19-10W	200	20,397	131,356	9		Arbuckle	3,300	13	3
Odessa ('49)	32-18-6W	400	30,244	336,218	12		LansK.C.	3,092	9	ಣ
Odessa South ('49)	9-19-6W	120	8,144	199'09	4		LansK.C.	3,069	9	39
Orth ('32)	27-18-10W	1,600	142,892	3,138,645	22		Shawnee			9
				•			LansK.C.	2,915	91	
							"Sooy"	3,187	ฆ	
							Precambrian	3,240	21	
Orth North ('56)	23-18-10W	40	1,777	1,777	-		Arbuckle	3,262	∞	
Orth West ('44)	21-18-10W	009	33,899	684,137	17	_	Shawnee	2,688	37	41
							Arbuckle	3,235		
Ponce ('36)	28-21-7W	8	8,887	76,172	ત્ય		"Sooy"	3,388	4	
Prosper ('48)	6-18-9W	4	no runs	10,256	-		Arbuckle	3,232		
Prosper East ('50)	5-18-9W	160	10,797	197,060	4		Arbuckle	3,222	16	
Raymond ('29)	21-20-10W	2,800	171,616	14,211,210	69	9	Wabaunsee	2,285		
							LansK.C.	3,130	9	
							Arbuckle	3,330	4	
Rick* ('36)	1-19-11W	9	2,169	60,910	-		LansK.C.	3,106		41
							Arbuckle	3,355		
Rick Southeast ('47)	18-19-10W	100	8,725	110,001	က		LansK.C.	3,026		36
							Arbuckle	3,334	ĸ	
Rickard ('35)	22-18-9W	4	2,463	203,154	-		Arbuckle	3,324	-	
Ringwald ('49)	32-18-10W	8	62,807	666,357	œ	-	LansK.C.	2,947	ro	88
			9,827		က		Precambrian	3,072		
Roesler* ('43)	14-18-11W	320	18,090	157,557	9	-	Arbuckle	3,291	2	
Silica South* ('35)	24-20-11W	460	77,221	1,510,515	12		LansK.C.	3,035		
							Arbuckle	3,268		
Staatz ('53)	15-18-9W	8	13,076	43,082	~	-	Penn. congl.	3,247		37
Sterling* ('51)	4-22-8W	200	5,283	36,912	က		Mississippian	3,385	17	
Union East ('50)	27-20-8W	200	4,959	66,564	9	α	"Sooy"	3,305	G	
Volkland ('43)	27-18-9W	400	20,208	748,983	7		Arbuckle	3,221	စ္တ	
Welch-Bornholdt* ('24)	35-20-6W	6,300	893,528	14,956,648	271	2	"Chat"	3,370		34
Welch North ('37)	23-20-6W	160	5,947	130,156	က	-	"Chat"	3,334	32	
Wherry ('33)	11-21-7W	7.640	306,682	12,611,046	108	9	"Sooy"	3,358	22	
Wherry North ('47)	35-20-7W		Combined	Combined with Wherry			•	•		
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3,412									3,435	3,280	3,489	3,228	3,479		3,057	3,401	3,621	3,337		3,755		3,194	3,449	3,644	3,477	3,093	3,570	3,450	3,617	3,210	3,384	3,619	3,824	3,618	3,140	3,409
Penn. congl.								LansK.C.	Arbuckle	LansK.C.	Arbuckle	LansK.C.	Arbuckle		LansK.C.	LansK.C.	Arbuckle	LansK.C.		Arbuckle		LansK.C.	Penn. congl.	Arbuckle	Arbuckle	LansK.C.	Arbuckle	LansK.C.	Arbuckle	LansK.C.	LansK.C.	LansK.C.	Arbuckle	Arbuckle	LansK.C.	Arbuckle
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60,383 287,427	210,515,444	OUNTY	Now called Trico	Now called Trico	Combined with Marcotte	Now called Trico	Now called Trico	8,256,154		727,043		1,884,387		Now called Trico	25,700	616,297	•	16.765	Combined with Marcotte	74,060	Combined with Marcotte	230,866			14,090	1,634,834		474,447	1	55,958	1,462	1,579,085	000	2,939	9,0/1	£,102,00±
43,569	5,369,801	ROOKS COUNTY	N	N	Combine	No	Ñ	127,802	433,780	54,273		128,157		Š	1,356	16,453	137,900	1,840	Combine	16,144	Combine	47,805			no report	99,326	,	32,361		27,646	no report	176,218	6	2,939	180	043,000
120	71,400							1,700		200		98			4	1,300		9		160		200			4	9	;	082 780	•	120	,	1,600	\$	₽ \$	9 60	2,000
30-19-5W			33-10-20W	32-10-20W	17-10-20W	27-10-20W	34-10-20W	11-9-19W		6-9-18W	!	13-9-19W		20-10-20W	10-10-16W	25-9-19W		28-7-19W	31-10-19W	29-10-19W	26-10-20W	35-10-17W			34-10-17W	1-11-18W	;	3-11-18W		33-8-18W	Z7-10-17W	5-10-20W	11 0 0011	11-9-20W	91 0 17TV	M 17-0-10
Windom* ('53) Pools or fields abandoned	Total Rice County		Allphin ('53)	Allphin Northwest ('54)	Amboy Southwest ('55)	('51)	Annon South ('56)	Barry ('42)		Barry East ('47)	•	Barry Southeast ('46)		Bassett ('51)	Baum ('42)	Baumgarten ('50)		Belmont ('49)	Berland South ('51)	Berland Southeast ('53)	Berland Southwest ('49)	Brungardt* ('52)			Brungardt Northwest ('53)	Burnett* ('37)		Burnett Northwest* ('46)	•	Carmichael ('55)	Colby ('%)	Cooper* ('43)	(94%)	Cresson (36)	Dancer (32)	Johna (01)

Table 65.—Oil production in Kansas during 1956, continued

	, incorporate		Oil production, bbls.	tion, bbls.	D.O.	Melle	Producing zone, ft	g zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956			Name	Depth	Thick- ness	Aver. grav.
Dopita East ('52)	29-8-17W	380	49,841	206,501	6		LansK.C.	3,304	9	
Dorr ('42)	20-9-16W	880	147,658	1,114,531	37		LansK.C.	3,230	21	
Dorr South ('53)	20-9-16W	8	18,250	52,664	ιc		Toronto	3,178	ខ្ល	32
		•		i c	,		LansK.C.	3,733	3°	
Faubion ('36)	12-6-18W	G₽ 6	4,450	56,579	٦ ،		LansK.C.	3,162		36
Fennel (32) Finnesy ('47)	10-10-19W	8 8	4,422	43,334	4 C	-, ,	Lans - K.C.	3,450	1 4	3 6
Flagler ('55)	15-10-18W	8	6,625	12,366	ı —	. –	EansK.C.	3,445	9	3
Ganoung ('53)	31-9-17W	8	4,635	29,391	8		LansK.C.	3,281		
			•			_	Penn. congl.	3,524	2	
Gick ('47)	30-9-19W	280	32,465	290,735	∞	•	Arbuckle	3,578	12	34
Gra-Rook ('48)	30-9-20W	800	160,793	1,357,463	20	_	Penn. congl.	3,810		
						•	Arbuckle	3,889	4	
Gra-Rook North ('56)	18-9-20W	280	10,931	10,931	4	•	Arbuckle	3,746	14	
Grover ('50)	22-7-19W	400	19,240	158,728	6		LansK.C.	3,272	40	32
						•	Arbuckle	3,408	13	
Hayden ('49)	31-8-19W	400	56,245	615,408	13	-	LansK.C.	3,239		R
						•	Arbuckle	3,513	4	
Hillside ('52)	12-8-20W	₽	1,948	14,100		•-	Shawnee	3,206	œ	82
Jelinek ('47)	23-9-19W	2,700	24,115	4,464,361	က	_	LansK.C.	3,220		ß
;		;	560,507		& '	•	Arbuckle	3,537	12	
Kern ('50)	28-9-20W	200	42,162	318,980	ı,	•	Arbuckle	3,855	က	,
Krueger* ('48)	35-10-16W	380	43,363	547,896	12	_	LansK.C.	3,552	29	36
71	110 1011	977	70.00	270 050	;	•	L'initia	700	ć	ç
Kruse (51)	3-10-10W	440	7,729	22 050	٦°	-, -	LansP.C.	9,004 900,0	8 4	ရှိ
Total Moral west (33)	04-9-TO W	150	2, 200	00,00	9 6	•	- 17.C	007,0	2 5	ć
Laton ('Z')	M91-6-11	4,100	203,778	4,563,448	707		LansN.C.	3,228	Š	3
Laura* (50)	30-10-20W		Combin	Combined with Cooper	ber					
ranta confinent (oc)	M 07-01-00	;	ÓN	v called 111	, 2		•		,	
Locust Grove ('49)	8-7-19W	40	2,209	26,520	-	•	Arbuckle	3,450	14	
Locust Grove Southeast ('51)	9-7-19W		no report	4,525			Arbuckle	3,400		
Lone Star ('48)	4-8-17W	98 8	67,523	384,258	19	ຼ	LansK.C.	3,259	1	
		;		1	,	•	Arbuckle	3,382	17	;
Lone Star Southwest ('51)	8-8-17W	₽ 8	2,549	26,265	; ۳	•	Arbuckle	3,239	នុ	ន
Lynd ('51)	32-9-19W	960	50,189	375,233	12	•	Arbuckie	3,750		7
Lynd Southwest ('52)	2-10-19W	\$	8,334	13,359	-	•	Arbuckle	3,759	4	දි

MoClellen (745)	W61-6-6	40	2,208	68,434	-		LansK.C.	3,343	rc	34	
McHala ('48)	8-9-18W	640	26.802	458.215	∞		LansK.C.	3,436		56	
(or) arrival							Arbuckle	3,494	2		
Marc ('48)	18-9-19W	8	843	19,618	7		LansK.C.	3,370	00		
Marcotte ('43)	15-10-20W	14,000	1,887,109	15,321,029	337	2	LansK.C.	3,596	9		
		•					Arbuckie	3,132			
Marcotte North ('50) Marcotte South ('51) Marcotte Southwest ('51)	31-9-19W 22-10-20W 21-10-20W	OZO	Combined with M Now called Trico Combined with M	Combined with Marcotte Now called Trico Combined with Marcotte							
Mayhew ('51)	24-9-19W	320	19,837	42,556	2		Arbuckle	3,613		22	
Medicine Creek ('52)	18-8-16W	120	2,927	26,335	က		LansK.C.	3,054	17	36	
Mt. Ayr ('52)	13-10-18W	40	579	11,507	-	-	LansK.C. Penn. congl.	3,554	12		
Muilenburg* ('49)	1-10-21W	O	Combined with Cooper	ith Cooper)				
Nettie ('48)	34-9-17W	100	136,375	1,027,840	34		LansK.C.	3,243			
							Arbuckle	3,499	33		
1 0	11111	4	1100	007.0	,	,	T. T. T.	0,00	3 6		
Nettle Southeast (55) Northampton (748)	26-9-20W	1 200	16.558	3 570 018	- 6	-	Lans-K.C.	3,208	<i>o</i> 4	27	
(01)		2016	414,798	2000000	32		Arbuckle	3,803	Ξ	i	
Nutsch ('54)	3-10-20W	0	ombined w	Combined with Marcotte							
Nyra ('46)	16-9-17W	400	13,247	214,127	∞		LansK.C. Arbuckle	3,429			
Palco ('43)	5-10-20W	Z	ow called	Now called Cooper or Marcotte	rcotte						
heast (3-10-20W	O	ombined w	Combined with Marcotte							
Palco Southwest ('51)	7-10-20W		Combined with Cooper	ith Cooper							
Palco Townsite ('45)	20-9-20W	80	2,829	38,735	2		Arbuckle	3,847	12	83	
Paradise Creek ('47)	21-9-18W	1,100	122,574	2,387,985	34		LansK.C.	3,400		5 8	
							Arbuckle	3,576	13		
Paradise Creek West ('53)	20-9-18W	160	49,958	157,170	z,		Arbuckle	3,594	13	ខ	
Plainville ('48)	31-9-17W	40	2,928	32,871	-		LansK.C.	3,477	38		
							Arbuckle	3,613	7		
Ray Southeast ('42)	9-6-20W	40	2,434	87,180	-		Reagan	3,600	9	38	
Riffe ('51)	4-7-19W	120	7,961	49,532	8	-	LansK.C.	3,230		36	
Slate ('51)	31-6-19W	120	6,781	34,126	က		LansK.C.	3,291		36	
							Arbuckle	3,545	12		
Spaulding* ('53)	1-11-21W	4	Now called Trico	Crico 010			Moumoton	2 204			
Stockton (37)	35-7-17W	400	18,563	202,491	œ		Shawnee	2,692			
							LansK.C.	3,180	62		
Sweet ('51)	18-8-18W	(no report	4,738			Arbuckle	3,423			
Trarbach ('56)	36-10-20W	٥	ombined w	Combined with Marcotte							

Table 65.—Oil production in Kansas during 1956, continued

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	Discorre		Oil produc	Oil production, bbls.	Dro. W	والو	Producir	Producing zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956		Name	Depth	Thick- ness	Aver.
Trico* ('51)	30-10-20W	3,840	401,819	987,762	26		LansK.C.	3,543	,	
Vohe ('45)	14-10-19W	OPδ	196 658	2 325 806	24	,,,	Arbuckle	3,749	18	
Vohs Northwest ('47)	9-10-19W	40	2,806	126.686	i		LansK.C.	3.446	• ∞	34
		}	î				Arbuckle	3,738		
Vohs South ('47)	23-10-19W		no report	12,524			LansK.C.	3,303		
Webster ('46)	27-8-19W	2,600	143,689	2,739,796	46	₹	Shawnee	3,180	12	
						•	Arbuckle	3,403	z,	ន
Westhusin ('36)	11-9-17W	1,500	98,729	2,430,929	37		LansK.C.	3,231	11	37
						•	Arbuckle	3,408		
Whisman ('50)	9-9-20W		no report	none			LansK.C.	3,427		
Williams ('53)	9-10-18W	900	64,564	284,821	6	_	Foronto	3,386		19
							LansK.C.	3,459		
							Simpson	3,717		
						•	Arbuckle	3,733	9	
Williams North ('56)	32-9-18W	4	2,729	2,729	1		Simpson	3,714	က	
						•	Arbuckle	3,725	က	
Williams Northwest ('53)	6-10-18W	40	3,761	17,564	-	,	LansK.C.	3,409	46	5 6
Williams Southeast ('53)	16-10-18W	200	44,631	102,638	9	•	LansK.C.	3,444	က	36
Yohe ('49)	4-9-18W	4	3,565	48,236	-	•	LansK.C.	3,266	24	
Zurich (35)	26-10-19W	800	21,970	432,987	6		Shawnee	3,087		37
							LansK.C.	3,340	6	
Zurich Southwest ('52)	34-10-19W	40	3,842	19,991	-		LansK.C.	3,385	6	88
Zurich Townsite ('44)	27-9-19W	360	8,835	537,569	-		LansK.C.	3,462		
			40,665		7	•	Arbuckle	3,647	9	
Pools or fields abandoned				96,885						
Total Rooks County		55,840	6,988,701	67,069,840	1,360 2	27				
			RUSH COUNTY	DUNTY						
Chilly Knob ('53)	18-19-17W		no report	none		•	Arbuckle	3.928		
Otis-Albert* ('34)	10-18-16W	2,840	456,574	5,509,490	62	4	Reagan	3,527	6	
Pechanec ('56) Beighel ('53)	2-19-17W	\$ \$	98.	786	⊣,	•	Arbuckle	3,842	11	
weigher (55)	W-11-07	₽	124	187	-	_	LansK.C.	3,330		

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80,744 9,415 69,180 no report no report 75,001	2,584 3,764 1,548 702,720	RUSSELL COUNTY	no report	3,405	no report	3,321	8,653	no report no report	1,519	15,117	10 163	20161		no report	6,820	3,731	43,697	C	76,090	4,762	805,339					1.395	no report
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16-18-18W 10-18-18W 35-19-16W 32-19-16W 28-18-17W 16-19-20W	8-19-20W 16-19-20W 1-16-20W		7-13-14W	4-16-12W	15-14-12W	36-15-15W	21-12-14W	22-12-14 W 29-12-14 W	22-15-11W	26-13-15W	4-16-11W			27-13-15W	10-15-15W	30-15-11W	34-15-12W	111.41	WCI-11-CS	34-11-15W	8-12-15W					2-12-15W	11-14-14W
Rush Center ('47) Rush Center Northeast ('54) Ryan* ('45) Timken ('52) Webs ('54)	Webs Northwest ('55) Webs Southwest ('56) Weitzel ('47) Pools or fields abandoned Total Rush County		Atherton North ('45)	Beaver North* ('37)	Beisel ('44)	Boxberger (35)	Claussen (44)	Claussen Nortn (49) Claussen West ('49)	Coal Creek ('51)	Cook ('50)	Davidson* ('30)			Dillner Northwest ('47)	(35) (35)	Driscoll (revived) (56)	Dubuque (35)	E. 1 (740)	Eulert (49)	Eulert West (34)	Fairport* (23)					Fay ('52)	Fossil Creek ('53)



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Table 65.—Oil production in Kansas during 1956, continued

	LABLE 00	-Cit pro	raction the D	LABLE 65.——On production in Lansas auring 1950, continued	o corre	סונונו	מפת			
	, money C		Oil produ	Oil production, bbls.	å	allour	Producing zone, ft.	g zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Gorham ('26)	32-13-15W	15,800	1,515,453	60,609,939	430	22	Shawnee LansK.C. "Gorham"	2,765 2,908 3,152	8 4 ℃	37
Hall-Gurney* ('31)	30-14-13W	29,000	3,424,527	70,763,814	1,210	40	Arbuckle Reagan Tarkio Wabaunsee Topeka	3,289 1,985 2,400 2,675	ъ	33
							Oread LansK.C. "Gorham" Arbuckle	2,813 2,985 3,165 3,192	83	
Heim ('53)	21-14-12W	320	47,279	127,285	7	-	Precambrian LansK.C. Penn. congl.	3,156 2,897 3,189	11	37
Janne ('43)	24-15-12W	320	24,082	283,844	6		Arbuckle LansK.C.	3,238	ι¢	
Jerry ('42)	4-15-14W	40	2,284	67,397	-		Arbuckie Wabaunsee LansK.C.	3,319 2,985		
Kune ('36) Meier ('48) Nay ('48)	17-13-15W 30-15-12W 31-15-12W	40 60 80	1,790 15,833 28,113	1,790	757	-	Arbuckle LansK.C. Arbuckle	3,004	15	
	5-16-14W 18-15-12W	160 340	25,009 23,214	25,009 347,237	* 20.		Arbuckle LansK.C. Shawnee	3,350 3,183 2,957	9 2	
Russell ('34)	22-13-14W	5,300	738,662	15,911,574	189	11	Arbuckle LansK.C.	3,259 3,195	6	
Russell East ('49) Steinert ('54) Strecker ('43)	25-13-14W 21-15-15W 21-15-14W	80		37,146 41,262 59,097	7 7		Arbuckie Arbuckie LansK.C. Arbuckie	3,273 3,141 3,421	° II "	æ
Trapp* ('36)	23-15-14W	25,000		102,635,356	857	84	Tarkio Shawnee	2,359 2,889 2,889	32	

Trapp East ('49)	14-15-13W	8	3,159	56,627	2		Arbuckle LansK.C.	3,252	23	39
Worley ('46) Pools or fields abandoned	4-11-15W	-	no report	none 247,575			Arbuckie LansK.C.	3,204	ro	
Total Russell County		83,090	9,883,069	279,226,050	2,969	132				
			SALINE	SALINE COUNTY						
	15-15-2W	160	12,428	62,888	4		Mississippian	2,799	9	
Gypsum Creek* ('44)	4-17-1W	640	101,305	499,766	16	Т	Mississippian	2,619	14	36
	20-16-1W	840	47,484	1,268,587	ឧ		"Chat"	2,381	7	
	8-16-1W	300	24,682	267,214	œ	87	Mississippian	2,674	77	36
	13-15-3W	98	4,328	45,850	က	-	Viola	3,258	12	32
	10-16-3W	860	31,824	576,885	14		Viola	3,303	12	
	5-16-3W	3,000	177,129	970,446	22	Н	Viola	3,381	54	35
	30-14-2W	1,400	46,919	1,055,563	ຂ		Viola	3,223	œ	
	32-14-2W	300	14,903	207,635	2		Viola	3,246	œ	34
	19-15-3W	3,400	343,495	3,693,139	115	z	Viola	3,356	9	37
Swenson ('50) Pools or fields abandoned	34-15-3W	08	7,337	37,036 11,235	8		Viola	3,353		
Total Saline County		11,060	811,834	8,699,694	264	12				
			SCOTT	SCOLT COUNTY						
	10-19-31W	80	10,016	31,868	က		Mississippian	4,577	•	
	25-18-32W	120	33,653	203,318	ကျ		LansK.C.	9,036 4,001	4 9	83
	W 55-U2-G1	9	10,288	1,859,809	-		Marmaton Mississippian Ste. Genevieve	4,286 4,660 4,670	16	ß
Total Scott County		1,100	59,957	2,140,055	13					
		S	EDGWICE	SEDGWICK COUNTY						
Bartholomew* ('48) Bentley (revived) ('29)	30-27-4W 24-25-2W 19-29-1F	1,700 40	161,193 4,831 4,868	2,372,117 19,637 5,981	9 - 7		Mississippian Kansas City	3,732 2,866	32%	
í		} ;	Poof:	1006	٠,		Mississippian	3,352	1 ∞	
Brumley Northwest ('56) Butwick* ('49)	12-29-1W 7-26-3E	See See	10 2,201 See Butler County	2,201 unty 1,939	-		Mississippian	3,303	12	



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Table 65.—Oil production in Kansas during 1956, continued

	Tiesonosi C		Oil produ	Oil production, bbls.	1	211.071	Producing zone, ft	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956			Name	Depth	Thick- ness	Aver. grav.
Chambers ('48)	10-29-2W	120	8,287	81,540	3		Mississippian	3,540	4	44
Chambers Northeast ('56)	2-29-2W	160	5,037	5,037	က		Mississippian	3,570	r.	
Clearwater ('44)	22-29-2W	202	9,589	147,831	4		LanK.C.	2,913	11	
Cottage ('53)	19-25-2E		no report	529			"Burgess"	3,004		
Crestview ('52)	1-27-1E		no report	none			"Burgess"	2,982		
Cross ('29)	27-25-1W	40	1,962	91,060	-		LansK.C.	2,650	40	36
Curry ('47)	11-27-1W	440	44,884	582,481	16		LansK.C.	2,715		
•							Simpson	3,400		
Eastborough ('29)	19-27-2E	1,000	46,455	9,066,375	19		"Chat" Viola	2,956 3,238		
Eastborough North ('52)	8-27-2E	8	3,289	31,913	8		Arbuckle	3,376	22	
Fairview ('48)	8-26-2E	260	19,073	374,670	œ	-	LansK.C.	2,500		44
			,				"Burgess"	2,980	8	
							Mississippian	2,991	4	
Fairview North ('48)	5-26-2E	80	7,626	137,480	87		"Burgess"	2,971		
Fairview South ('50)	17-26-2E		no runs	10,553			"Burgess"	2,945		
Gehring-Rick ('52)	16-28-2E	8	3,321	14,359	8		Mississippian	2,950		4
Gladys ('54)	30-28-1E	37,200	25,336	2,832,123	3	-	LansK.C.	2,773	6	40
,			1,784,769		219		Mississippian	3,176		
Gladys South ('55)	5-29-1E	8	4,133	9,565	7	7	Mississippian	3,194	16	
$\overline{}$	4-29-1E	8	5,346	10,551	7		Mississippian	3,150	12	
Gladys Southwest ('56)	7-29-1E	40	2,167	2,167	-		Kanas City	2,828	-	
Goodrich ('28)	16-25-1E	780	69,348	4,936,964	ន		LansK.C.	2,614	7	
							"Chat"	3,010	16	
							"Kinderhook"	3,334		
	!						Arbuckle	3,339	က	
Greenwich ('29)	14-26-2E	200	110,154	11,886,197	ន	4	"Chat"	2,885	က	
							Viola	3,321	ī.	
	1-26-2E	4	3,255	3,255	-		Mississippian	2,827	ĸ	
Hinkle ('46)	1-27-1E		no report	10,153			"Burgess"	2,980		
	22-27-1W	8	3,972	141,905	4	α	LansK.C.	2,779	ro	
Kechi ('29)	13-26-1E	4	310	33,777	-	-	"Burgess"	3,009	87	
Kuske ('29)	24-25-1E	0 06	145,066	770,179	ස	4	"Burgess"	3,016	-	41
Latta North ('56)	33-29-2W	4	3,671	3,671	-		LansK.C.	3,117	ນ	
Luening ('51)	33-26-2E	80	2,579	17,195	8		Simpson	3,338	∞	37

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3,247	3,300	3,387	3,445	2,812	3,090	3,349	3,658	2,860	3,366	2,957			5,927	5,095	5,584	5,770	5,332	5,103	6,005	20,202	5,000	5,448			3.755	3,883	3,902	4,024	4,023	3,789	3,810	4,033	0,010
Arbuckle	Simpson	Viola	Viola	Mississippian	Mississippian	Mississippian	Simpson	LansK.C.	Viola	"Burgess"			Morrowan	Marmaton	Morrowan	Mississippian	Marmaton	LansK.C.	Morrowan	Monomon	Morrowan	Morrowan			LansK.C.	LansK.C.	LansK.C.	LansK.C.	LansK.C.	LansK.C.	Toronto	LansK.C.	Lambi-TN.C.
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60,275	2,798	128,337	40,705	350	4,515,211	206,027	4 310	22,175,842		560,985 26,039	61,324,314	COUNTY	2,467	16,103	375	27,257	8,207	206,322	96 479	614,00	1 038	1.608	349,850**	COUNTY	3.827.256	11,577	Abandoned during 1956	15,851	39,188	42,431	3,079	954 439 159	200,002
10,988	no report	9,148	2,467	no report	171,026	4,413	1 403	18,229		23,168	2,723,564	SEWARD COUNTY	275	no report	375	4,737	1,803	20,654	8 600	0,000	110121 011	603	36,011	SHERIDAN COUNTY	297.318	11,577	Abandone	9,223	10,739	13,224	3,079	no runs	110,011
160		40	40		860	40	90	1,500		009	48,200		40		40	40	40	2,000	190	150	40	40	2,360		1.600	160		40	40	120	94	340	040
11-27-2E	10-27-2E	36-26-1W	35-26-1W	25-25-2E	20-23-1E	7-28-1W	W1-98-1W	1-26-1W		30-26-2E			18-35-31W	23-33-31W	10-33-31W	26-33-31W	24-34-31W	11-35-32W	1K 9K 99W	10-00-00 1	30-33-34W	18-31-31W			11-6-27W	26-8-27W	35-6-27W	12-10-26W	17-9-26W	20-6-26W	6-9-28W	2-8-30W	14 07-0-07
Minneha ('51)	Minneha Northwest ('51)	Petrie ('45)	Petrie Northwest ('51)	Prairie Creek ('52)	Robbins ('29)	Schulte ('47)	Sobiilto South (185)	Valley Center ('28)		White Cotton ('48) Pools or fields abandoned	Total Sedgwick County		Hawks ('52)	Kismet ('48)	Kismet Northwest ('53)	Kismet South ('52)	Kneeland ('51)	Liberal-Light ('51)	I though Courthoont (147)		Chirch ('55)	Thirty-One (53)	Total Seward County		Adell ('54)		Chicago ('55)	Custer ('55)	George ('52)	Hortonville ('53)	Hoxie ('56)	Moss ('52)	Studies (40)

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Table 65.—Oil production in Kansas during 1956, continued

		•		,						
	Discontinue		Oil production, bbls.	tion, bbls.	Dro	Wells		Producing zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Studley Southeast ('55) Studley Southwest ('45) Wessel ('53)	26-8-26W 32-8-26W 27-6-29W	4 8 8 8	8,601 15,529 12,023	14,538 95,881 90,529	2148	1	LansK.C. LansK.C. LansK.C.	3,872 3,758 3,985	∞ % 4	37 38
Wessel North ('53)	16-6-29W	81	8,335	33,297	יט		LansK.C.	4,081	4	
Total Sheridan County		3,160	401,997	4,614,133	75	~				
			STAFFORD COUNTY	COUNTY						
$\overline{}$	26-22-13W		no report	47,473			Arbuckle	3,784	4	
Bart-Staff* ('51)	4-21-14W	120	28,633	205,632	က		Arbuckle	3,572		9
Bayer ('51)	16-21-14W	640	98,950	126,680	13		LansK.C.	3,543	4	
							Viola	3,702	91	
							Simpson	3,736	13	
Dodford (Mo)	91 99 1911/	040	10 001	1 790 009	ç	c	Arbuckle	3,778	d	36
Brenn ('40)	10-23-13W	0 TO	76.980	128 909	3 5	1	Lane - K	3,651	. «	3 8
	17-62-10 11	2 6	0,203	140,000	ą °	-	Auto-1-15.	100,0	•	3 5
_	12-23-12W	3	10,209	411,575	ю ,	٠,	Arbuckie	3.080	4	7 6
Byron ('al)	9-21-12W	₹	1,154	706,12	٦.	4	Arbuckle	3,439	,	
	10-21-12W	160	5,887	48,771	4		Arbuckle	3,500	က	
Centerview ('54)	28-24-13W	40	9,127	27,071	-		Arbuckle	4,188	ro	
Cephas ('53)	10-25-14W	320	50,931	284,363	23		Viola	4,114	œ	88
\sim	35-24-14W	\$	8,010	25,413	~		LansK.C.	3,794	တ	જ્ઞ
Chase-Silica* ('31)	32-19-9W	640	77,536	439,578	16	N	Arbuckle	3,383	9	9
Clarksburg ('55)	36-22-13W	8	4,023	10,986	~		LansK.C.	3,576	9	
	21-23-14W	8	4,573	27,827	0		LansK.C.	3,690	2	
Cleveland South ('53)	28-23-14W	;	no report	783	•		LansK.C.	3,703	_	;
Cochlin ('51)	19-22-11W	8	5,360	38,117	20 ;		Arbuckle	3,659	4	9
Crissman ('52)	16-23-14W	\$	29,622	222,899	Ξ		LansK.C.	3,664	∞ ;	2 4
							Simpson	3,984	9	
							Arbuckle	4,006	9	
Crissman North ('52)	9-23-14W	700	no report	1 210 225	ä		LansK.C.	3,669	3 œ	
Curus (42)	M CT-77-0	8	103,010	1,413,040	3		A=h::01-10	410,0 600,6	-	
Dell ('50)	7-21-13W	160	5,808	107,196	က		Arbuckie LansK.C.	3.446	13	30
Dell East ('51)	5-21-13W	320	60,823	487,789	14	-	LansK.C.	3,471	œ	8
							Arbuckle)	,

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Dell Northeast ('51)	5-21-13W	80	4,312	23,079	2		LansK.C.	3,438	c	36
Diamond ('53) Dillwin ('56) Proch ('27)	8-22-13W 16-24-14W	640	no report 89,334	9,172 89,334	19	u	LansK.C. Arbuckle	3,426 4,295	, 72 °	40
Duggan ('51)	30-21-11W	360	13,204	164,216	ည် သ	0	Arbuckie LansK.C.	3,312	9 9	41
							Feilli, congi. Simpson Arbuckle	3,505 3,514	0 00	
Farmington ('43)	34-24-15W	700	25,815	1,177,021	12	က	"Kinderhook" Simpson	4,378	9	
Farmington Northeast ('55)	26-24-15W	200	25.202	27.546	4	-	Arbuckle Arbuckle	4,417	12	
Farmington Northwest ('56)	29-24-15W	160.	3,423	3,423	က	1	LansK.C.	3,904	œ <u>5</u>	
Ć,	31-21-12W		Combin	Combined with Gates	Sa		WOOD TANKE	319°F	3	
rthwest ('48)	36-21-13W	í	Combin	Combined with Gates	Sa		;	. :		
Frey (50) Gates (33)	7-21-14W 27-21-13W	300	80,856	729,240	152	4	Arbuckle I ans K	3,717	_	€ 8
	; } 		2001	2,000	.	•	Penn. congl.	3,643		3
							Viola	3,635	į	8
Gates North (356)	99-91-13W	8	2 000	2 004	c		Arbuckie	3,679		66
German Valley ('51)	4-22-12W	88	2,234	42,355	o 01	1	Arbuckle	3,648	* 0	9
(,54)	14-23-14W	40	4,757	18,404	-	1	LansK.C.	3,651	9	:
('46) D: 3 ('59)	11-24-13W	8	2,404	53,195	2		LansK.C.	3,672	;	ဓ
Kidge (33)	30-23-14W	€ 5	3,546	13,589	٦,		LansK.C.	3,788	22	닭
33)	2-23-14W	3.5	2,590	22,145			LansK.C.	3,640	91	육 년
	W CT_T7_0T	2	700,000	140,10T	=		Arhiickle	3,405	-	င်
er ('43)	11-25-15W		no report	24,727			LansK.C.	3,945	15	9
	21-22-13W	4	906	14,651	⊷,	0	LansK.C.	3,610	ro (į
Happy Valley (32)	11 - 22 - 13 W	9 6	99,510	12,001	٠,		Arbuckie	3,810	3	က
Happy varied morniegs: (00)	20 24 19W	8	7,000	01,000	# =		Arbuckie	3,857	2	Ş
narver (50)	W 61-42-06	8	T00'c	271,68	4		LansK.C. Simpson	3,767 4,167		40
Harter North ('56)	19-24-13W	88	10,451	10,451	81		Arbuckle LansK.C.	3,785	rc	
Hazel ('42)	21-21-13W	640	92,884	882,289	ន	-	LansK.C.	3,380		
Hazel West ('50)	20-21-13W	. 640	13,858	992,661	N		Arbuckle LansK.C.	3,692 3,488 2,488	ာ ဇာ π	
		,					Arbuckie	0,0,0	ာ	

TABLE 65.—Oil production in Kansas during 1956, continued

	-		Oil production, bbls.		Q.	Wolle		Producing zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Helene ('52)	16-22-12W		no report	24,495		1	Arbuckle	3,685	10	
_	24-22-12W	400	50,568	630,400	12	8	Arbuckle	3,652	8	
Hickman ('51)	27-21-14W	940	77,593	852,062	22	-	LansK.C.	3,522	10	37
			•	•			Simpson		9	
Hickman South ('52)	34-21-14W	40	8,688	36,124	П		LansK.C.	3,567	∞	37
Hudson ('52)	33-22-12W		no report	none		Н	LansK.C.	3,495	2	
Hufford ('48)	33-21-13W	400	87,219	940,469	16	~	LansK.C.	3,489		
				•			Arbuckle	3,755	2	
Jordan ('36)	15-25-14W	380	51,130	955,147	10		LansK.C.	3,722	rc	
Kachelman ('50)	7-25-13W	120	15,218	33,929	4	87	LansK.C.	3,946		
•			•	•			Viola	4,075		
							Arbuckle	4,294		
Kelly ('48)	35-23-12W		no report	5,204			Arbuckle	3,870	21	
Kenilworth ('47)	15-22-13W	400	30,494	486,583	10		LansK.C.	3,505		34
			•	•			Arbuckle	3,808		
Kipp ('37)	27-25-14W	300	9,660	678,673	ഹ		LansK.C.	3,827	73	
Kipp North ('54)	23-25-14W	8	15,126	27,264	87		LansK.C.	3,748	10	32
Kipp Northeast ('46)	23-25-14W	120	15,031	245,908	က		LansK.C.	3,844		32
Knoche ('51)	8-24-12W		Abandoned	٠.	99		Viola	3,810	Π	
Knoche South ('56)	17-24-12W	40	279	279			Viola	3,884	8	
Koelsch ('52)	24-24-14W	400	47,455	235,160	10	4	LansK.C.	3,750	∞	32
Koelsch Southeast ('52)	25-24-14W	. 098	46,587	459,036	13	-	Simpson	4,181	4	41
							Arbuckle	4,187		
Kowalsky* ('41)	32-20-11W	200	40,573	128,141	9		LansK.C.	3,279		20
Kowalsky Southwest ('50)	6-21-11W	320	30,453	204,351	6		Simpson	3,398	ន	
							Arbuckle	3,424		
Krankenberg ('56)	19-22-12W	4	4,059	4,059	1		Simpson	3,711	ro	
Leesburgh ('38)	12-25-13W	740	31,703	2,605,830	14		Simpson	4,060	24	
							Arbuckle	4,153	10	
Leiss ('56)	23-25-13W	8	12,209	12,209	∾		Simpson	4,215	_	
Leo ('50)	7-21-13W	120	8,195	900'98	က		LansK.C.	3,475		
							Arbuckle	3,636	4	
	29-21-14W	160	26,914	188,015	4		LansK.C.	3,543	œ	
McCandless ('44)	30-25-13W	380	32.145	32.145 990.767	6	87	LansK.C.	3.863		
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4,251	9,000	3,483	4,126	3,356	3,615	3,570	3,628	3,320	3,669	4,168	3,908	3,641	3,858	3,356	3.658	3,698	3,921	3,537	3,913	3,915	4,063	4,101	3,768	3,503	3,777	3,798	3,780	3,580	3,817	3,593	3,462	3,611	3,514	3,395	3,483	3,579	3,575	3,735
Simpson	LansIV.C.	LansK.C.	Viola	LansK.C.	Simpson	Arbuckle	Arbuckle	LansK.C.	LansK.C.	Mississippian	Viola	LansK.C.	Arbuckle	LansK.C.	Arbuckle	LansK.C.	Viola	LansK.C.	Viola	Viola	Simpson	Arbuckle	LansK.C.	LansK.C.	Viola	Arbuckle	Arbuckle	LansK.C.	Arbuckle	LansK.C.	LansK.C.	Arbuckle	Arbuckle	LansK.C.	LansK.C.	Arbuckle	LansK.C.	Arbuckle
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	12,017	30,439	33,101	7,082,656			1,165	9,282	321,970	8,767	78,326	52,099		6,622,370	34.893	21,759	33,595	45,927		304,755		1,309	28,068	181,100			400,117	121,686		725,793	138,133	none	14,940	20,176	203,711		Combined with Pritchard Combined with Pritchard 118,651 1,408,961	
42,781	460	3,043	10,761	475,475			947	no report	9,695	8,767	32,854	963'6		533,721	2.404	no report	1,654	9,070		35,174		no runs	1,961	12,826			107,416	25,805	15,169	148,813	15,058	no report	no report	2,377	60,937		Combined Combined 118,651	72,186
	40	40	8	2,000			40		380	120	8	80		4,600	40	2	80	160		009		40	40	340			420	220		006	200			40	400		1,800	
	13-21-14W	14-21-14W	14-24-15W	35-21-12W			27-21-12W	15-22-12W	32-23-13W	7-25-14W	30-24-11W	29-22-13W		29-21-12W	24-21-13W	28-22-14W	15-25-11W	7-25-11W		27-24-12W		21-24-12W	8-24-15W	24-22-14W			14-22-14W	26-22-14W		22-22-14W	26-22-12W	35-22-12W	2-21-13W	11-21-13W	34-20-14W		3-21-14W 2-21-14W 19-21-13W	
	McGinty ('50)	McGinty Northwest ('51)	Macksville East ('54)	Max ('38)			Max North ('55)	Max South ('50)	Merle ('49)	Moody ('56)	Mopac ('54)	Mt. View ('52)		Mueller ('38)	Mueller West ('49)	Nellie ('48)	Neola ('48)			North Star ('52)		North Star North ('53)	O'Connor ('48)	Oscar ('49)			Oscar North ('51)	Oscar South ('53)		Oscar West ('52)	Pleasant Grove ('52)	Pleasant Grove South ('55)	Prarie Home ('49)	Prairie Home South ('53)	Pritchard* ('44)		Pritchard South ('51) Pritchard Southeast* ('53) Pundsack ('47)	

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Table 65.—Oil production in Kansas during 1956, continued

			Oil produc	Oil production, bbls.			Producing zone, ft	zone, ft.		
Field name and	Discovery well	Area,	during 1956	to end, 1956	Pro- Wells ducing abd., wells 1956	-	Name	1	Thick-	Aver.
Jan or micoard	TOCHETOTE	200	ant Summ	ocart inito		- 1	2000	Tark and a		
Pundsack North ('50)	18-21-13W	160	10,530	98,341	က	H	JansK.C.	3,494	œ	
						⋖	Arbuckle	3,674	2	
Pundsack Northwest ('50)	24-21-14W		no report	5,031		H	JansK.C.	3,512		
Radium ('53)	7-22-14W	4	no runs	1,043	1	_	JansK.C.	3,476		
						>	Viola	3,775		
Radium Townsite ('53)	5-22-14W	200	63,426	160,563	G	>	Viola	3,754	15	
				•		⋖	Arbuckle	3,852	8	83
Radke ('53)	25-23-14W	4	2,348	13,436	-	ı	ansK.C.	3,688	12	
Radke East ('54)	24-23-14W	49	3,570	9,629	-	Н	LansK.C.	3,676	4	8 8
	13-24-14W	160	5,088	210,729	က	ᆸ	LansK.C.	3,608	48	
Rattlesnake East ('56)	7-24-13W	200	26,364	26,364	4	ы	ansK.C.	3,694	9	
			•	·		2	Mississippian	3,880	4	
Rattlesnake Southeast ('54)	13-24-14W	8	16,546	49,432	7	Н	LansK.C.	3,758	9	
Rattlesnake Southwest ('50)	14-24-14W	40	9,157	93,879	-	Н	JansK.C.	3,760		34
Rattlesnake West ('44)	11-24-14W	240	063'6	167,155	4	2	JansK.C.	3,759	7	
		i					Mississippian	4,025		
Richardson ('30)	36-22-12W	1,560	392,338	13,512,032	2 99		ansK.C.	3,264	;	
			•	0		∢;	Arbuckle	3,537	8	
Kichland ('44)	Z1-24-14W		no report	186,258		≧	Mississippian Arhiickle	4,032 4,032 2,33	35	
Dilor ('40)	99_92_11W	\$	1 036	145 200	-		one K	3 3 3 3	÷	
Rose Valley ('52)	36-25-13W	28	5.737	34.615	10	111	LansK.C.	3,824	9 0	
() (3				>	Viola	4,137	13	
Rothgarn ('43)	10-21-13W	909	15,491	338,834	œ	J,	ansK.C.	3,369	,	
	1107 10 11	6	0			∢.	Arbuckle	3,569	2	Ė
Rothgarn Southeast ('50)	14-21-13W	200	6,056	S1,105	⊣ <	-1 <	Annoldo	5,5/8 5,7/8		70
St. John (35)	23-24-13W	840	44.575	2.737.137	14 2	_	ansK.C.	3,58	35	
					 		rbuckle	4,075	12	
St. John North ('52)	20-23-13W	40	1,458	25,097	-	_	LansK.C.	3,603	4	37
St. John Northwest ('52)	20-23-13W	120	27,739	62,633	4	μ.	ansK.C.	3,644	9	33.2
	00 00	9	1,509	777	, -1 c	⋖	Arbuckle	3,956		
St. John Townsite ('44)	33-23-13W	400	10,929	441,808	×	⊣ ⋖	JansK.C. Arbiickle	3 919	o ro	
Sandago ('47)	12-21-12W	240	6,371	163,119	2	: ∢;	Arbuckle	3,480	တ	32
Sand Hills ('44)	19-21-11W	8	6,263	69,189	2	v.	Simpson	3,481	ĸ	
					ı	2	TOO OF	101,	2	

36	30		4 4 4 8	4 4 8		22	34		37	34	37
13	25 € £	* -	. 55 J	° ≈ =	18,	30 22 6	11 6 6	9 17 10	4 & 6	. 55 v v	4211
3,548 4,166 3,282	3,546 3,893 4,826	3,404 3,519 3,536	3,548 3,297	3,528 3,528 498 2,828	3,774	3,600 3,819 3,581 3,474	3,576 3,362 3,402	3,691 3,836 3,945	3,659 3,864 3,852	2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3,388 4,006 4,069
Arbuckle Penn. congl. LansK.C.	Arbuckie LansK.C. LansK.C.	LansK.C. Penn. congl. Simpson	Arbuckle LansK.C.	Fenn. congr. Simpson Arbuckle Lans - K.C.	Arbuckle LansK.C.	Arbuckle LansK.C. Penn. congl. LansK.C.	Arbuckle Simpson Simpson	Arbuckie Arbuckie Viola Arbuckie	LansK.C. Arbuckle Simpson	Arbuckle LansK.C. Arbuckle Arbuckle LansK.C.	Simpson Viola Arbuckle
		-	-		1	- E		က	-	-	
10	ю 4	15	- 87	24	12	. 17	r 0 0 r	133	ard 4	26	
2,566 303,412	43,459 16,014	581,294	295,128 44,837	3,087 28,338 93,423	750,204	3,739 14,786 787,267	517,172 1,516,691	84,508 3,637,533	Combined with Pritchard 11,097 86,094 4,573 36,937	12,786 18,042 53,657 26,322	23,537 206,063
no report 22,876	12,512 16,014	80,535	26,765 11,721	3,087 4,429 22,717	24,185	no report no report 91,546	18,780 18,469 77,458	1,333 no report 30,165	Combined 11,097 4,573	452 1,826 10,430 9,641	2,871 no runs
860	80 160	640	300	08 80 08 08	480	840	200	1,000	160	40 40 120 120	40
31-24-14W 14-21-12W	6-25-13W 6-25-13W	3-21-13W	16-22-11W 9-22-11W	8-22-11W 21-22-11W 10-22-13W	33-21-12W	23-25-12W 22-22-11W 2-22-14W	3-21-11W 16-21-11W	21-22-12W 15-24-12W	4-21-14W 9-22-14W 8-22-14W	21-22-14W 21-21-12W 27-21-12W 15-21-14W	29-25-12W 20-24-13W
Saterlee ('54) Saundra ('46)	Seevers ('54) Seevers Northwest ('56)	Shaeffer ('41)	Shepherd ('51) Shepherd North ('54)	Shepherd Northwest ('56) Shepherd South ('53) Silver Bell ('49)	Sittner ('37)	Slade ('53) Sleeper ('51) Smallwood ('51)	Snider ('36) Snider South ('38)	Spangenberg ('43) Stafford ('40)	Starr ('50) Strobel ('52) Strobel Northwest ('52)	Sutton ('54) Syms East ('47) Syms Southeast ('52) Taylor ('52)	Taylorville ('53) Van Lieu ('43)

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TABLE 65.—Oil production in Kansas during 1956, continued

			Oil prod	Oil production, bbls.	غ ا	1 7	Producing zone, ft	g zone, ft.		
Field name and year of discovery	Discovery well location	Area, acres	during 1956	5 to end, 1956	ducing abd.,	wells abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Van Winkle ('50)	23-21-14W	40	810	14,511	H	-	LansK.C.	3,570	4	33
Van Winkle Southeast ('50)	26-21-14W	8	8,501	75,145	8		LansK.C.	3,569	œ	
Wendelburg ('51)	19-23-11W	4	1,243	18,366	-		Arbuckle	3,729	4	37
White Cloud ('56)	28-22-11W	160	16,549	16,549	4		Arbuckle	3,636	87	
Widener ('54)	26-21-12W	240	28,558	89,230	_		Arbuckle	3,574	7	41
Wood ('53)	33-22-14W	120	10,962	45,031	က		Simpson	3,932	20	83
							Arbuckle	3,965		
Zenith-Peace Creek* ('37)	23-24-11W	400	255,682	39,279,513	137	2	LansK.C. Viola	3,481 3,860		
Pools or fields abandoned				66,092						
Total Stafford County		53,360	6,231,825	120,908,569	1,400	24				
			STANTON COUNTY	COUNTY						
Sparks ('54)	34-30-42W	80	786	186	3		Morrowan	5,254		
			SUMNER COUNTY	COUNTY						
Alton ('49)	10-35-2W		no report	12.148			Simpson	4.711		
Anness ('37)	2-30-4W		no report	154,772			Simpson	4,394	2	
Anson ('48)	35-30-2W	300	49,493	197,393	12		LansK.C.	3,264		
			•	•			Mississippian	3,742	ដ	
Ashton ('54)	19-34-2E	160	8,483	32,700	ည		"Cleveland"	3,210	ន	34
Beatie ('56)	21-31-2W	40	5,716	5,716	-		Simpson	4,189	က	
	15-30-1E	8	6,283	314,281	~	-	Simpson	3,798	s.	
Bitter Creek ('53)	1-35-1E	200	51,120	153,658	9		"Stalnaker"	2,353	: :	Š
	100	į			•		Mississippian	300,5	3 ;	3
Caldwell (29)	17-35-3W	<u> </u>	26,609	1,614,599	4.		Simpson	4,760 0,760	3	Ş
	0-00-0 W	₽	706,7	20,00	-	-	Junpson 7	4, c	3	9 6
Cnicaskia (54)	3-33-3W	Č	no report	811'9	;		LansN.C.	3,415	è	₽
Churchill ('26)	25-31-2E	720	44,781	19,800,290	17		"Stainaker" Arbuckle	2,820	82	
Corbin ('48)	23-34-2W		no report	37.286			Simpson	4,475	5	
Fall Creek ('50)	3-35-3W	<u>0</u>	240,222	1,877,308	24		Simpson	4,746	ಜ	46
Gerberding ('54)	6-34-4W	8	23,143	45,595	က		Simpson	4,710	ιO	32
Guelph ('51)	6-35-1E	160	83,114	1,090,570	2	-	LansK.C.	3,028	45	45
			123.843		듄		Simpson	2.954	£	
					}		Omithonia	100,0	7	

	30	31	34		37
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3,969 3,267 3,042 3,172 3,449 3,474	3,735 3,773 3,773 3,472 3,256	2,020 2,510 2,850 3,681 3,095 3,187	3,424 3,474 3,744 3,519 3,030	3,040 3,040 3,268 3,268 3,268	3,124 4,189 3,158 3,726 3,280 3,655
Arbuckle LansK.C. LansK.C. Kansas City Mississippian Arbuckle	Simpson Arbuckle "Layton" "Bartlesville" "Layton" Layton" "Hovies"	"Stalnaker" "Layton" Arbuckle Simpson Arbuckle "Cleveland"	"Bartlesville" Mississippian Simpson "Layton" Mississippian Simpson "Layton"	Simpson "Layton" Arbuckle Arbuckle "Bartlesville" Mississippian LansK.C.	"Bartlesville" Simpson "Cleveland" Mississippian Simpson "Bartlesville" "Chat"
	6	ı က	∺	₩	
1 4 2 1 4	1 129 1 3	7 7 .	2 11 2	5 2 Bend 9 1	5 89 1 138
92,677 1,426,591 7,268 92,327 108,423 none	54,576 1,447,109 5,566 31,823 16,489,366	804,088	9,584 1,023,969 417,106	• •	34,723 1,911,685 1,911,685 3,171 8,163 9,001,930
8,152 78,261 52,041 7,268 9,602 no report no report	2,197 577,035 3,715 23,526 73,013	28,379	726 69,687 38,062	44,737 3,411 no report Combined with 26,018	See Cowley 54,925 462,624 no report 339 334,800
260 540 40 160	2,000	280	80 560 360	80 300 C	3,500 3,500 3,000
17-31-3W 9-30-2W 5-30-2W 33-32-2E 36-32-2E 10-35-1E	7-32-2E 7-35-2E 3-34-2E 18-32-1W 14-32-2E	17-32-2E 12-34-2E	21-34-2E 12-33-2W 16-34-1E	28-34-1E 24-33-2E 24-33-2E 21-33-2E	19-32-3E 2-35-1W 14-35-2E 31-32-2E 23-33-2E 33-31-1W
Kerschen ('55) Latta ('27) Latta Northwest ('56) Lee ('51) Margaret ('46) Meek ('56)	Metz ('51) Murphy* ('33) Norris ('55) O'Hara ('55) Oxford ('27)	Oxford West ('26) Padgett ('25)	Padgett West ('54) Perth ('45) Portland ('50)	~ * L	Sinck-Carson* ("24) Souh Haven ("54) State Line ("53) Tate ("50) Val Verde ("45) Wellington ("29)

Table 65.—Oil production in Kansas during 1956, continued

			Oil produ	Oil production, bbls.	200	2H2W	Producing zone, ft	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956			Name	Depth	Thick- ness	Aver. grav.
Wellington Northeast ('55)	27-31-1W 8-31-1W	340	136,878	165,572	17		Mississippian Simpson	3,659	5 4	46
Zyba ('37)	7-30-1E	560	28,874	486,562	2		Simpson	3,866	r eo	30
Zyba Southwest ('44) Pools or fields abandoned	22-30-1W	009	124,123	1,266,344 129,806	13		Simpson	3,918	12	
Total Sumner County		22,000	3,044,872	64,090,537	685	10				
,			THOMAS COUNTY	COUNTY						
Kindig ('56) Mingo ('52)	30-8-32W 19-9-32W	40 80	7,707 3,052	7,707	12		Cherokee Marmaton Mississippian	4,525 4,414 4,680	31	
Total Thomas County		120	10,759	24,072	l m					
			TREGO COUNTY	OUNTY						
Adair ('53)	21-12-21W	40	2,833	15,822	7		Marmaton	3,879	z	37
Adair Southwest ('56)	28-12-21W	40	3,002	3,002			Marmaton	3,826	10	
	15-12-21W	4 :	2,469	41,083	, , ,		Arbuckle	3,958	34	္က (
Cotton East $('47)$	14-12-21W	₹	3,961	53,595			Arbuckle Chorolego	3,542	9	40
Courson (34) Diebolt* ('53)	33-10-23W	£9	174.275	304.413	13.		Cherokee LansK.C.	3,779	9	35
Ellis* ('42)	31-12-20W	1,200	51,665	537,412	12		ArbReagan	3,832	œ	
Ellis Northwest ('44)	26-12-21W	160	11,649		4	_	Arbuckle	3,925	N	
Ellis South* ('52)	12-13-21W	•	Combined	3	c		Arbuckle	3,822	55	33
Groit (32)	W 12-#1-02	T,200	196,020	020,130	۹ و	-	Donn cond	2,435 2,835	36	90
Groff Southeast ('55)	35-14-21W		Combine	Combined with Groff	3		Penn. congl.	3.824	4	
Hixson ('53)	19-11-22W		no report	none			Marmaton	3,818	×	
Hixson East ('54)	16-11-22W	4	no runs	1,578	-		Arbuckle	3,939		
bo.	11-13-21W	9:	3,851	5,591	-		Marmaton	3,800	97	
Kroeger ('56) Vting ('53)	36-13-21W	6 8	2,572	2,572	H 6		Arbuckle Miggigginnian	3,937	4	
Locker (53)	5-14-21W	3	no report	8.107	•	-	Penn. congl.	4.029	11	36
Newcomer ('56)	12-12-23W	200	75,188	75,188	16		LansK.C.	3,733	(m)	3
Newcomer Northwest ('56)	2-12-23W	320	18,719	18,719	∞		LansK.C.	3,763	က	

Nieden ('52) Ogallah ('51) Page Creek ('56) Rhoden ('56)	16-12-23W 26-12-22W 28-15-22W 24-12-23W	3,800 40 200	1,833 585,746 4,495 9,279	24,138 3,019,021 4,495 9,279	2812	-	Mississippian Arbuckle Cherokee LansK.C.	3,850 4,260 3,764	24. 5. 6.	36
2)	26-12-21W	460	42,547	222,829	6		LansK.C.	3,633 3,898	13	36
Spaulding* ('53) Spaulding South ('54)	1-11-21W 1-11-21W	04	Now 672	Now called Trico	-		LansK.C.	3,573 5,573 8,573 8,573	~ 4	
	32-12-21W	40	1,372	4,339	-		Arbuckle	3,904	4	38
Sunny Slope ('52)	21-14-21W	640	42,217	309,146	21	~	Marmaton	3,848	14	33
Trico* ('51)	30-10-20W	9	162,276	243,649	20 20 20		LansK.C. Arbuckle.	3,573 2,638		
('34)	14-11-23W	640	12,744	883,476	3		LansK.C.	3,619	- ∞	
Wakeeney East ('49)	13-11-23W	Ė	no report	11,904	,		LansK.C.	3,576	(
waiz (50)	12-11-21W	200	87,017	492,476	91		LansK.C. Arbuckle	3,428	<u>۔</u>	
White Southwest* ('53) Pools or fields abandoned	35-10-21W		Now	Now called Trico 51,206			Arbuckle	3,688	1	
Total Trego County		12,040	1,469,972	7,000,818	243	1 9				
		*	WABAUNSEE COUNTY	E COUNTY						
Davis Ranch ('49)	33-13-10E	640	254,228	1,818,436	18		"Hunton" Viola	3,201	12	
Mill Creek ('50)	2-13-10E	160	24,658	206,841	4		Viola	2,923	4	
Newbury ('50)	11-11-11E	2 4 0	23,716	227,115	9,		Viola G:	2,501	帮・	
Wheat (51)	10-15-11E	ล จ	3,259	16,732	۰,		Simpson	3,230	4. n	
woodpury (31)	T01-C1-II	₹	11,911	03,880	7		Viola	3,328	o	
Total Wabaunsee County		1,100	323,838	2,340,603 recorded	31					1
			WILSO	WILSON COUNTY						
Altoona ('03) a	10-29-16E	300	5,957		101	7	"Squirrel" "Bartlesville"	90 90 90		
ب م ب		300	3,774							
D 0 •		1,500 40	15,241 838 755							
r g Altoona East	29-17E	300 480 480	2,106 5,960		30		"Bartlesville"	006		
	1	i	- > > 6 >		;			;		

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ABLE 65.—Oil
TAB

	Discovery		Oil production, bbls.		Pro-	Wells	Producing zone, ft.	g zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	to end, 1956	ducing abd., wells 1956	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
Benedict a	28-15E	8	1,003		37		"Bartlesville"	1,000		
b B1ff3lo* ('24)	97_16F	640	12,047		, H	-	"D	1		
	701-17	10	106		3	-	Dartiesville Cherokee	1,020		
, P		200	8,538					1,100		
లార		28	17,119 9.129							
Φ.		99	22							
⊢ t		3	585		•					
Coyville West	27-13E	4 1	1,103		4		Cherokee			
æ	29-15E	\$			21	9	"Burgess"	1,050		
જ ન		₽ 5	1,250							
ນ		96	300 5.893							
ਰੂ ,		10	40							
o e		2;	99							
₩ 5		25	316							
Humboldt-Chanute*	28-17E	QT	102		11	-	"Bartlesville"	850		
œ.		10	131					8		
DI 1 1 1 1 1 1 1 1	100	40	1,834		1	,	;			
iveouesita ·	301-0c	40	790		185	N	"Bartlesville"	920		
		9	1 802							
ပ		400	26,738							
q		9	580							
a 4-		9 9	30							
1 p0.		20°±	1,798							
ন .		6,200	36,725							
Neodesha East	30-17E	28°	209 677 72		₩,	-	Cherokee			
Trile OF	20-13E	₽;	0		۰,		;	;		
Wiggins"	28-17E	400	3,041 Combined with Altoona	rith Altoona	ဘ		"Bartlesville" "Bartlesville"	1, 00, 05,		

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Miscellaneous		40	671		4	ł			
Total Wilson County		14,320	172,836	5,959,981 recorded	492	15			
			WOODSON COUNTY	COUNTY					
Annabelle ('56)	32-25-15E	20	454	454	2		"Squirrel"	1,173	ις
Big Sandy ('23)	23-26-14E	96	47,188	•	54		"Bartlesville"	1,230	20
Buffalo* ('24)	26-16E				83		"Bartlesville"	950	
		20	272				Cherokee	1,150	
ф		200	64,684						
Evans* ('38)	21-23-15E	400	2,219		2	က	Mississippian	1,540	
"Gordon" ('54)	13-24-15E	909	21,989		77		"Squirrel"	1,080	16
Halligan	30-26-17E	320	5,064		18				
Hoagland ('29) Humboldt-Chanute*	2-24-14E 25-17E	ပိ	nbined with	Combined with Winterscheid	م 38	-	Mississippian "Bartlesville"	1,635 900	37
Trailipoint-Cilainne	71-03	0	1		3	4)	
₫		86	5,058						
Q		3	2,1						
o T		9 8	2/5						
D	100	200	047,7		•			,	
McWherter (55)	35-26-13E	9 8	2,073	:	3		Mississippian	1,417	
Neosho Falls* ('28)	23-16E	No	v called Neo	Now called Neosho Falls-Leroy	roy		"Squirrel"	320	
Neosho Falls-Leroy* ('05)	35-22-16E				8	-	"Squirrel"	98	
æ		400	28,138				Mississippian	1,200	
Ф		1,200	13,411						
U		400	5,133						
Perry	26-17E	<u>6</u>	52,009		84	8			
Piqua ('38)	22-24-17E	009	1,504		9		Mississippian	1,190	
Quincy* ('32)	14-25-13E		•		86	2	"Bartlesville"	1,500	
હ		1.200	193,160						
ڡؚ		40	169						
Rose East ('54)	16-26-16E	1,000	99,877		49		"Bartlesville"	1,139	15
Silver City ('46)	19-23-15E	909	40,224		18				
Stange		10	405		-	Н	Cherokee		
Steele ('52)	20-23-15E	40	828		7		Mississippian	1,525	17
Stephenson			no report						
Toronto*		40	445		က	က	"Peru"	1,000	
;					í		"Bartlesville"	1,700	,
Vernon	Z3-16E	0	9		53		Squirrel	896	9
ø.		<u> </u>	29,716				Mississippian	1,420	
Q		3 5	1,451						
ဎ		7	5,938						

Table 65.—Oil production in Kansas during 1956, concluded

	Discourie		Oil produ	Oil production, bbls.	0.0	Molle	Producing zone, ft.	zone, ft.		
Field name and year of discovery	well location	Area, acres	during 1956	during 1956 to end, 1956 wells	wells	abd., 1956	Name	Depth	Thick- ness	Aver. grav.
d Virgil North* ('20)	22-23-13E	60 640	8,756 60,643		39		"Bartlesville"	1,585		
Weide ('37) Winterscheid*	31-23-15E 23-14E	ט	ombined wi	Combined with Winterscheid	neid 363	-	Mississippian Mississippian "Bartlesville"	1,570	15	
8 1	! !	12,000	275,627		}	ı	Mississippian	1,750	}	
Wissman ('36)	3-24-15E	1,500	3,479		17		Mississippian	1,520		
rates Center a	GCT-C7-07	640	17,950		5		Mississippian	T,#00		
Miscellaneous		100	1,179		6					
Total Woodson County		27,340	998,680	8,523,373 recorded	1,071	14				

^{*} Field extends into adjacent county or counties. ** Corrected cumulative.

	Location of		Gas producti	on, M cu.ft.**		Producing zone,	ft.
Pool or field name and year of discovery	discovery well	Area, acres	during 1956	to end, 1956	No. wells	Name	Depth
		ALI	LEN COUNTY				
Humboldt-Chanute*	26-18E	500	45,102		20	"Squirrel" "Bartlesville"	740 850
Miscellaneous		800	90,563		46		
Total Allen County		1,300	135,665	·	66		
		BAR	BER COUNTY	Z .			
Aetna ('35)	13-34-15W	500	300,712	2,262,321†	4	Mississippian Viola	4,850 5,215
Aetna Northeast ('56)	9-34-14W			with Aetna		Mississippian	4,693
Blunk ('56) Blunk South ('56)	30-34-13W 1-35-14W	40	38,797	38,797	1	Mississippian	4,727
Blunk South ('56)	1-35-14W 8-33-12W	40	15,433 called Medicir	15,433	1	Mississippian Simpson	4,821 4,824
Boggs ('47) Boggs Southwest ('55)	30-33-12W	3,600	9,601,182	9,601,182	24	Mississippian	4,456
Canema ('56)	24-33-11W	0,000	no report	none		Missis:ippian	4,553
Clara ('44)	2-30-14W		no report	803,532		Marmaton	4,381
	•					Simpson	4,435
						Viola Arbuckle	4,509 4,540
Cottonwood Creek ('48)	21-30-14W		no report	none		Simpson	4,582
Deerhead ('42)	26-32-15W		no report	1,896,083†		Viola	4.931
DeGeer ('48)	2-33-15W		no report	140,442		Mississippian	4,902
						Viola	5,176
Donald ('46)	33-31-15W	C	no report	none	~ +	"Miss, lime"	4,697
Driftwood ('56)	1-34-13W 27-32-14W	100	nbined with B 107,732	oggs Southwe	sı 2	Missis:ippian Mississippian	4,635 4,662
Elsea ('56) Elwood ('56) Farley ('56) Forsyth ('55) Goemann ('55)	34-34-13W	100	140,215	140,215	2	Mississippian "Elgin"	3,662
Farley ('56)	32-34-14W	200	no report	none		Mississippian	4,742
Forsyth ('55)	17-32-12W	40	51,651	51,651	1	Missis:ippian	4,436
Goemann ('55) Hardtner ('54)	29-32-10W	- 000	no report	none		Mississippian	4,433
Hardiner (54)	31-34-12W	5,200	17,525,934	19,469,037	38	Cherokee Mississippian	4,791 4,782
ILS ('56)	9-31-11W	40	13,289	13,289	1	Simpson	4,865
Lake City ('45)	7-31-13W		Included w	ith Skinner		Viola	4,435
Little Bear Creek ('54)	12-32-14W	80	231,233	753,471	2	"Douglas sand"	3,808
McGuire ('56)	24-32-11W		no report	none		Viola Mississippian	4,670 4,403
Mease ('54)	27-30-11W	40	no report 28,238	28,238	1	"Douglas sand"	3,759
Medicine Lodge ('27) Medicine Lodge North ('54)		Now	called Medicir	ne Lodge-Bog	gs		
Medicine Lodge North ('54)	25-32-13W	40	13,627	13,627	1	Mississippian	4,480
Medicine Lodge-Boggs	13-33-13W	13,000	12,439,437	219,016,200	70	"Douglas sand" Mississippian	3,812
('27)			Includes '	Whelen		Simpson	4,480 4,860
Medicine Lodge	6-34-13W	600	779,335	1,133,067	5	Mississippian	4,889
Southwest (*54)		-			•		
Medicine Lodge West*	16-33-14W		Abandoned o	during 1956		Mississippian	4,632
('56)	0 20 1537	40	9,926	9.926	1	Donn congl	4,566
Moffett ('55) Nippawalla ('51)	9-30-15W 13-33-12W	1,400	2,688,558	4,146,998	18	Penn. congl. "Douglas sand"	3,659
Mippawana (01)	10 00 15 11	2,100		1,110,000		Mississippian	4.541
Nurse ('53)	23-31-13W	400	94,758	94,758	4	"Douglas sand"	3,599
Rhodes ('54)	4-33-11W	6,400	4,826,222	4,928,455	22	"Douglas sand"	3,548
Roundup South ('53)	33-33-11W		no report	none		Mississippian Mississippian	4,551 4,457
Salt Fork ('54)	3-35-11 W		no report	none		Marmaton	4,780
Sharon ('55)	13-32-10W	640	331,579	331,579	9	Mississippian	4,355
Salt Fork ('54) Sharon ('55) Sharon Northwest ('56)	11-32-10W	600	299,661	299,661	4	Mississippian	4.347
Skinner ('43)	29-31-14W	3,600	576,449	26,714,243	10	"Douglas sand"	4,023
						Simpson Viola	4,422 4,630
Traffas ('55)	6-33-10W		no report	none		Mississippian	4,590
Whelan ('34)	32-31-11W	Includ	led with Medic		oggs	Douglas	3,598
Whelan East ('54)	2-31-11W		no report	none		"Chat" "Douglas sand"	4,355 3,746
Total Barber County	**	36,500	50,113,968	292,009,987†	221	G-uu busik	2,1.20
			TON COUNT				
Adolph ('47)	16-20-15W		no report	none		Arbuckle	3,734
Ash Creek* ('48) Behrens ('44)	31-20-15W 6-20-15W		no report no report			Arbuckle	3,769
Demens (44)	0-20-10 W		110 report				

TABLE	Location		Gas producti	on, M cu.ft.**		Producing zone	, ft.
Pool or field name and year of discovery	of discovery well	Area, acres	during 1956	to end, 1956	No.		Depth
Behrens Northeast ('55) Bergtal ('41) Clarence South ('54) Converse ('53) Dundee ('45) Eberhardt ('35)	29-19-15W 22-20-15W 2-20-15W 20-20-15W 29-20-14W 14-19-11W	-	no report no report no report no report no report no report	none 896,604 none none 2,021,092 398,567		Arbuckle Arbuckle Penn. congl. Arbuckle Arbuckle	3,639 3,689 3,606 3,783 3,607
Heizer Southwest ('52) Krier ('44)	21-19-14W 30-16-11W	100 160	82,460 41,634 Within Kraf	714,618 832,550 t-Prusa field	1 2	Penn. congl.	3,496
Otis-Albert* ('30)	11-18-16W		Included with	Rush County		Neva Reagan	3,507
Pawnee Rock* ('36) 19 & 2 Rick* ('41) Unruh ('45) Miscellaneous	20-15 & 16 W 11-19-11W 24-20-15W	100 400	120,000† no report 251,573 130,942	403,810 14,321,668	3† 5 1†	Arbuckle Arbuckle	3,355 3,641
Total Barton County		760	626,609†	22,375,314 recorded	12†		
		BU	TLER COUNTY	7			
Andover South* Miscellaneous	31-27-3E	80	no report 1,414		1†	"Stalnaker"	2,006
•		СН	ASE COUNTY				
Altemus Davis ('29) Elmdale	26-18-8E 18-8E 19-7E	640 300	no report 34,065 16,793		20 8	L. Permian L. Permian Wabaunsee	350-400 500 800
Hymer Lipps Neva	18-7E 32-18-7E 19-7E	I:	no report ncluded with E no report	Elmdale			
Total Chase County		940	50,858		28		
Howing Northwest (150)	07 04 019	CHAUT	AUQUA COUI			Mississiumion	2,072
Hewins Northwest ('56) Miscellaneous	27-34-9E	400	no report 198,534	none	12	Mississippian	2,012
M:			OKEE COUNT	ΥΥ			
Miscellaneous		40	2,521		1		
Ashland ('51) Cavairy Creek ('55) Harper Ranch ('53) Harper Ranch North ('54)	35-32-23W 3-31-21W 9-34-21W 22-33-21W	15,000 100	ARK COUNTY 157.624 146,252 no report	1,705,104 146,252 none none	3 2	Mississippian Morrowan Morrowan	5,195 5,437 5,318
McKinney* ('50) Morrison Northeast ('54) Snake Creek ('52)	2-34-26W 10-32-21W 21-34-21W	3,840	no report 453,293 no report no report	1,339,951 none none	6	Mississippian Morrowan Morrowan	5,762 5,193 5,452
Total Clark County		18,940	757,169	3,191,307	11		
Crandall ('53) "Gridley"	6-23-16E 22-14E	COF 60	FFEY COUNTY no report 7,152	?	3	Mississippian	1,022
		COMA	NCHE COUN'	ΓY			
Beals ('55)	5-34-17W		no report	none		LansK.C. Simpson	4,393 5,670
Robbins Ranch ('53)	23-31-16W	120	183,113	324,864	2	Mississippian	4,915
T (184)		COV	VLEY COUNTY	7		5 .3.	
Brown West ('51) Burden ('26)	14-31-7E 31-31-6E		no report no report			Douglas "Layton" "Bartlesville"	1,568 2,220 2,900
"Cambridge Southeast" Estes Frog Hollow ('37) Gibson ('41) Mansur ('49) New Salem ('49)	31-7E 32-6E 32-5E 34-3E 31-7E 21-31-5E	100 400 150 80	no report 128,722 no report 50,238 90,477 118,223		3† 4 1† 1	Douglas "Bartlesville" "Bartlesville" "Layton"	1,568 3,000 3,300 2,170



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TABLE 66.—Gas production	ı in	Kansas	during	1956,	continued
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Geological Survey of Kansas

	Location		Gas production	on, M cu.ft.**		Producing zone, ft.			
Pool or field name and year of discovery	of discovery well	Area, acres	during 1956	to end, 1956	No. wells	Name	Depth		
Burrton Northeast ('42) Graber* ('55) Sperling ('35) Wall ('51)	3-23-3W 22-1W 23-22-2W 25-22-3W	640	Included with 104,736 no report no report	Burrton 141,997 7,513,363 none	2	Mississippian Mississippian "Chat" Mississippian	3,226 2,958 2,955 3,150		
Total Harvey County	20 22 011	1,520	401,153	8,999,727 recorded	13		0,200		
		HAC	KELL COUNTY						
Hugoton Gas Area* ('31)	29-30-34W 2		31,391,477	282,539,659	430	Chase group	2,200		
		JEFFI	ERSON COUNT	TY					
McLouth					sed fo	r gas storage on	ly		
			NSON COUNT	Y					
Miscellaneous		300	51,253		19				
Ungoton Con Area * (227)	20 05 25111		RNY COUNTY		601	Ohana marin	2 200		
Hugoton Gas Area* ('37)	32-25-35W 4	<u> </u>	63,479,195	531,032,728	901	Chase group	2,200		
Basil ('53)	16-29-7W	KINC 120	MAN COUNT 94,743			Mississississ	4 150		
Bertholf ('55)	3-30-8W		mbined with S	94,743 Snivey-Grahs	3	Mississippian Mississippian	4,150 4,201		
Broadway ('48)	21-28-5W	320	251,923	2,020,553	8	Mississippian	-,		
Cunningham* ('31)	7-28-11W	In	cluded with Pr	att County		Arbuckle	4,094		
Dower ('50)	9-28-5W	1,200	266,516	2.993.507	6	Viola Mississippian	4,278 3,801		
Dewey ('50) Dresden ('51)	13-27-10W	1,200	no report	3,870	U	Mississippian	3,001		
Gilchrist ('55)	15-30-7W		no report	none		Mississippian	4,084		
Goetz ('56)	29-29-9W	80	309,874	309,874	2	Viola	4,408		
Kingman ('54)	16-27-7W	~	no report	none		Mississippian	3,824		
Rochester ('54) Settle ('56)	32-30-9W 18-29-7W	40	mbined with S 2,416	2,416	1	Mississippian Mississippian	4,325 4,110		
Spivey ('51)	27-30-8W		low called Spiv		•	Mississippian	4,297		
Spivey-Grabs* ('49)	13-31-9W	5,000	5,882,639	6,988,284	50	Mississippian	4,205		
Spivey Northwest ('54)	9-30-8W 17-30-8W	Com	bined with Spi bined with Spi	ivey-Grabs		Mississippian	4,156 4,172		
Spivey West ('55) Sunny View ('55)	26-30-9W	Com	bined with Spi	ivey-Grabs		Mississippian Mississippian	4,350		
Trenton ('55)	27-29-7W	160	52,677	104,053	1	Mississippian	4,117		
Zenda ('54)	36-29-9W	Com	bined with Spi	ivey-Grabs		Mississippian	4,161		
Total Kingman County	7	6,920	6,860,788	13,656,345 recorded	71				
		KIC	WA COUNTY						
Alford ('44)	14-30-19W		no report			Spergen "Miss. chert"	5,040		
Brenham ('47)	29-28-17W		no report no report	none		"Miss. chert" "Kinderhook"	4,841 4,742		
Greensburg ('56) Greensburg Northeast ('56)	17-27-17W		no report	none		Mississippian	4,675		
Hardy ('56)	23-28-18W		no report	none	_	Mis:iss:ppian	4,804		
Haviland ('55)	17-28-16W 13-28-19W	160	58,946	63,907‡	3	"Kinderhook"	4,761 4,864		
Johannsen ('54) Kane ('56)	12-30-18W		no report no report	none none		Mississippian Mississippian	4,908		
Nichols ('55)	20-29-18W	3,800	2,221,287	2,221,287	7	Mississippian	4,997		
Wellsford ('55)	15-28-16W	40	117,290	117,290	1	Marmaton Mississippian	4,680 4,729		
Miscellaneous				81,521		•			
Total Kiowa County		4,000	2,397,523	2,484,005‡	11				
		LAB	ETTE COUNT	Y					
Coffeyville-Cherryvale*	32-17E	400	no report						
Confey vine-Cherry vale			84,392		40				
Southern Labette Co.	24.1017	400	250		10				
Southern Labette Co. Valeda Miscellaneous	34-18E	10 200	350 5,890		1 3				

		LEAVE	NWORTH COU	NTY							
Linwood ('20) Roberts-Maywood*	12-21E 11-22E		no report 16,355		. 7	"Squirrel" Knobtown	600 400				
		LI	NN COUNTY								
LaCygne-Cadmus	20-24E	80	12,874†		8†						
		МсРН	ERSON COUN	TY							
Coons ('40)	13-19-1W		no report	••		"Chat"	2.897				
Doles Park ('47)	12-19-1W		no report			"Chat"	2,843				
Graber North ('51) McPherson ('26)	4-21-1W 29-18-2W		no report no report	none		Mississippian LansK.C.	2,955 2,340				
MCI Herson (20)	25-16-2 W		no report			"Chat"	2,967				
Dita Canton (190)	10 00 011	1 400	077 000		- 14	Viola "Chat"	3,140				
Ritz-Canton ('29)	12-20-2W	1,400	375,280		14	Chat	2,935				
MARION COUNTY											
Lehigh North ('53)	23-19-1E		no report			Mississippian	2,770				
Propp ('26) Miscellaneous	8-19-4E	200	no report 134,289		4	Mississippian					
Adama Danah (145)	0 05 00		ADE COUNTY			36	F 800				
Adams Ranch ('45)	8-35-30W	400	40,957	572,007	2	Morrowan Mississippian	5,708 5,850				
Angell ('56)	30-32-29W		no report	none		Morrowan	5,608				
Bond ('54)	32-33-30W		no report	none		Mississipipan	5,860				
Bruno Northeast ('53)	16-33-30W 14-35-27W		no report	none none		Morrowan	5,721 6,275				
Fincham ('56) Horace ('56)	9-34-29W		no report no report	none		Mississippian Morrowan	5,815				
Kismet East ('53)	30-33-30W	640	460,542	460,542	2	Morrowan	5,645				
Leslie ('55) McKinney* ('50)	3-33-30W 2-34-26W	7.800	Combined w	ith Stevens 12,264,656	18	Mississippian	5.762				
Novinger Northwest ('53)	15-33-30W		2,730,140 247,381 Includes Nov	247,381	3	Morrowan	5,718				
Plains ('56)	17-32-30W		no report	none		Morrowan	5,611				
Sanders ('56) Singley ('55)	13-32-29W 20-33-29W		no report 778,390	none 778,390	5	Mississippian Morrowan	5,550 5,803				
Singley (33)	32-33-29W	1,000	no report	none	J	Morrowan	5,810				
Stevens ('52)	32-32-30W	920	3,129,289	3,129,289	7	Morrowan Mississippian	5,560 5,713				
Total Meade County		11,460	7,386,699	17,452,265	37						
		MI	AMI COUNTY								
Louisburg	17-25E		no report								
Miscellaneous		160	30,528		12	· _ ··					
		MONTO	COMERY COU	NTY							
"Cavert"			no report			60 7 341					
Coffeyville-Cherryvale* ('02 Neode:ha South	2) 33-17 E		no report no report			"Bartlesville"					
Miscellaneous		380	460,627†		67						
		MO	RRIS COUNTY	7							
Veal ('55)	30-17-7E		no report			Ireland sand	1,234				
Miscellaneous		200	39,862		17						
		MOI	RTON COUNT	Y							
Boehm ('51)	14-33-42W		2,153,662	6,090,065	6	Morrowan	4,872				
Elkhart ('55) Greenwood Gas Area ('51)	11-35-43W	640	126,010 35,432,972	201,256 83,182,535	200	Morrowan Wabaunsee	4,558 2,777				
Greenwood Gas Area (51)	14-00-44 W	30,40U	315,264,06	00,102,333	200	Shawnee	3,069				
Hugatan Can Amerit (190)	04 04 40	001 400	05 000 554	040 400 177	902	LansK.C.	3,534				
Hugoton Gas Area* ('30) Richfield ('48)	24-34-40W 17-32-40W		25,320,554 1,515,702	240,406,155 2,660,387	293 4	Chase group Atokan	2,200 4,990				
		•			-	Morrowan	5,397				
Sparks*	34-30-42W	12,000	Included w	ith Stanton C	county	Morrowan (Keyes)	5,254				
Taloga ('55)	34-34-42W	1,200	8,883,580	9,199,397	15	Morrowan	4,428				
Miscellaneous			52,372			Cherokee	3,894				
Total Morton County		319,200	73,484,852	341,792,167	519						



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TABLE 66.—Gas production in Kansas during 1956, continued

	Location of		Gas producu	on, M cu.ft.**	Producing zone, ft.			
Pool or field name and year of discovery	discovery well	Area, acres	during 1956	to end, 1956	No. wells	Name	Depth	
		NEOS	SHO COUNTY	7				
Earlton Miscellaneous	28-18E	200	no report 236,264		72†			
		PAW	NEE COUNTY	Y				
Ash Creek* ('48) Benson ('45)	31-20-15W 30-23-15W	1,300	no report 1,731,799 Includes	Zook	13	Arbuckle Arbuckle	3,769 4,048	
Evers ('51) Evers South ('56) Garfield ('54) Hearn ('53)	36-21-16W 12-22-16W 35-22-17W 35-23-15W		no report no report no report no report	850,468 none none none		Arbuckle Arbuckle Penn. congl. LansK.C.	3,908 3,920 4,152 3,833	
Hearn North ('55) Larned ('49) Pawnee Rock* ('36) 19 &	23-23-15W 28-21-16W 20-15 & 16W	700	no report no report 2,700,000†	none		Simpson Simpson Arbuckle Arbuckle Reagan	4,106 4,084 3,877 3,832 3,507	
Ryan* Shady ('45) Shady North ('55) Sweeney ('53)	35-19-16W 34-22-16W 14-22-16W 8-21-15W	100 240	140,000† no report no report 36,416	3,992,596 none	3	Arbuckle Arbuckle Penn. congl. Arbuckle	4,063 4,013 3,727 3,792	
Zook ('42)	16-23-16W		Included wit	h Benson		Arbuckle	4,066	
Total Pawnee County		2,340	4,608,215†	31,812,623 recorded	40†	•		
•		PRA	TT COUNTY					
Barnes ('52) Carver-Robbins ('55)	25-27-12W 21-27-15W 4-27-13W	40	no report no report	none none	. 1	Simpson Penn. congl.	4,328 4,472	
Chance ('46) Chitwood ('43) Coats West ('55) Cullison ('56) Cunningham* ('31)	23-28-12W 24-29-14W 25-28-15W 7-28-11W	8,000	3,000 no report no report no report 509,095	10,089,598 none none	31	Viola LansK.C. Mississippian LansK.C.	4,340 4,216 4,543	
Iuka-Carmi ('42) Lion ('53)	29-26-12W 29-27-11W 27-29-14W	600	371,429 45,661 429,051 no report	3,648,793 none	5 1 5	Viola Arbuckle Viola Viola	4,278 4,094 4,122 4,323	
Shriver ('49) Stark ('41) Ward ('41)	13-26-12W 11-26-12W		no report no report no report	104,191		Viola Viola	4,121 4,129	
Total Pratt County	, F	8,640	1,358,236	17,339,802 recorded	43			
		REI	NO COUNTY				•	
Burrton* ('30) Lerado ('37) Yoder ('35) Zenith-Peace Creek* ('37	23-23-4W 10-26-9W 34-24-5W 23-24-11W	Inc 200 100	luded with Ha 453,879 21,821 no report	arvey County 2,815,736	4	Mississippian Viola "Chat" Viola	3,298 4,128 3,402 3,860	
Total Reno County		300	475,700	3,052,208 recorded	5	•		
		RIC	CE COUNTY					
Alden ('37) Bredfelt ('48) Chase-Silica ('36) Humphreys ('56) Lyons ('88)	22-21-9W 7-18-9W 6-19-9W	40	no report 165,890 no report	15,449,656 165,890 1,835,285	1	Misener Arbuckle Arbuckle	3,317 3,226 3,192	
	3-21-8W 35-19-8W	40	no report 50,869	none 14,096,212	1	Penn. congl. Simpson Arbuckle	3,272 3,290 3,277	
Lyons Southwest ('55) Orth ('33) Quivira ('47) Sterling ('51) Union ('50)	22-20-8W 27-18-10W 36-19-9W 4-22-8W 28-20-8W	100 640	no report no report no report 25,104 561,444	none 236,477 110,174	2 8	Penn. congl. LansK.C. Tarkio Mississippian Penn. congl.	3,251 2,906 2,117 3,385 3,275	
Miscellaneous Total Rice County		40 860	850 804,157	33,375,547	1† 13†			

			ucu commu				
Lohrey ('56) Otis-Albert* ('30) Reichel ('53) Rothe ('55) Ryan*	35-17-17W 11-18-16 W 23-17-17W 31-17-16 W 35-19-16 W	6,000 200 1,200	USH COUNTY no report 903,428 538,460 no report 1,106,400†	none 1,381,781 none	22 4 15†	Penn. congl. Neva LansK.C. LansK.C. Reagan	3,563 3,330 3,446 3,507
Ryan East ('54)	36-19-16W		no report	none		Arbuckle	3,648
Total Rush County		7,400	2,548,288†		41†		
		RUS	SELL COUNT	Y			
Miscellaneous		80	22,768		2		
		sc	OTT COUNTY	· · · · · · · · · · · · · · · · · · ·			
Keystone ('50)	25-18-32W		no report	45,122			
			GWICK COUN	TY			
Bartholomew ('46) Derby ('37)	30-27-4W 32-28-2E	600	104,485 No longer	productive;	11 used for	"Miss. lime." gas storage only. "Stalnaker"	3,732 2,215 2,228 3,194
Gladys South ('56) Schulte ('49)	5-29-1E 7-28-1W	40 200	73,344 no report	73,344 1,287,655	1	LansK.C. Mississippian Mississippian	3,194 3,349
Total Sedgwick Count	У	840	177,829	2,055,328 recorded	13		
		SEV	VARD COUNT	Y			
Blue Bell ('53) Blue Bell Northwest ('54)	33-34-31W 20-34-31W		no report no report	none none		Mississippian Mississippian (Chesteran)	5,959 5,947
Hawks ('52) Hoit ('54)	18-35-31W 28-32-34W		no report	none		Morrowan	5,927
Hugoton Gas Area* ('22)	3-35-34W	234,460	no report 24,894,277	none 176,841,238	324	Topeka Chase group	3,820 2,200
Kismet Northwest ('53) Liberal-Light ('51)	10-33-31W 11-35-32W	2,400	no report 2,988,349	none 20,093,345	11	Morrowan Morrowan	5,584 5,906
Liberal Southeast ('47) Massoni ('55)	15-35-33W 5-33-31W	1,100 640	1,745,904 10,112	15,453,165 10,112	-5 1	Penn, sand.	6,202 4,270
Plains West ('56)	16-32-31W	640	no report	none	1	Toronto Morrowan	5,600
Shuck ('55) Thirty-one ('53)	20-33-34W 18-31-31W	400	no report 194,171	none 492,637	1	Morrowan Morrowan	5,987 5,448
Wide Awake ('54)	4-35-34W	400	92,510	245,997	ī	Toronto Mississippian	4,410 6,168
Total Seward County	-	239,400	29,925,323	213,136,494	343	- Indiana printi	0,100
		STA	FFORD COUN	TY			
Bradbridge* ('48)	6-24-15W 27-24-15W		no report	none		Arbuckle	4,020
Farmington ('48) Farmington North ('56)	23-24-15W		Included with no report	none		Mississippian "Kinderhook"	4,207 4,120
Farmington Northwest ('56) Farmington West ('52)	30-24-15W 6-25-15W		no report no report	none none		"Kinderhook" Penn. sand.	4,272 4,164
Gates ('50)	26-21-13W		no report	266,956		LansK.C.	3,473
Hill ('52) Knoche ('51)	11-23-12W 8-24-12W		no report no report	none 1,208,546		LansK.C. Viola	3,447 3,810
Macksville ('47) O'Connor ('47)	3-24-15W 16-24-15W	640	1,031,013 no report	9,759,791 none	11	LansK.C. Arbuckle	4.061
Rattlesnake East ('56)	7-24-13W		no report	none		Mississippian	3,880
Zenith-Peace Creek ('37) Miscellaneous	23-24-11W	40	no report 132		1	Viola	3,860
Total Stafford County		680	1,091,145	10,983,950	12		
		STA	NTON COUNT	· Y			
Hugoton Gas Area* ('44) Sparks* ('54)	32-30-39W 1 34-30-42W	169,500	15,136,779 1,779,406	105,446,108 1,779,406	235 12	Chase group Morrowan (Keyes)	2,200 52,254
			Includes Morto	on County		(Izeyes)	<i>02,20</i> 4
Total Stanton County	j	172,700	16,916,185	107,225,514	247		
		STE	VENS COUNT	Y			
Hanke ('56) Hugoton Gas Area* ('27) Panoma ('56)	6-35-36W 31-33-37W 12-31-38W	640 600,000	no report 102,139,834 no report	none 1,478,766,620 none	727	Morrowan Chase group Council Grove	6,267 2,200 2,843
Total Stevens County		600,640	102,139,834	1,478,766,620	727		



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Geological Survey of Kansas

TABLE 66.—Gas production in Kansas during 1956, concluded

	Location		Gas producti	on, M cu.ft.**	1	Producing zone, f	t.
Pool or field name ar year of discovery	of discovery well	Area, acres	during 1956	to end, 1956	No. wells	Name	Depth
		SUM	INER COUNTY	7			
Bitter Creek ('53) Fall Creek ('50) Padgett ('24)	1-35-1E 3-35-3W 23-34-2E		no report no report no report	none		"Stalnaker" Simpson "Miss. lime" Marmaton	3,364 4,746 3,474 3,187
State Line ('53) Wellington ('29)	15-35-2E 33-31-1W		no report No longer	none productive; t	used fo	"Bartlesville" r gas storage only "Chat"	3.446
Miscellaneous		10,000	2,690,841		26	Chat	0,000
Sexson ('56)	19-13-42W	WAL	LACE COUNT	Y none		Morrowan	5,008
		WIL	SON COUNTY	?			
Altoona-Earlton Neodesha* Miscellaneous	29-16E 30-16E		no report no report 280,135†		60†	•	
		woo	DSON COUNT	Ϋ́			
Gordon ('54) · Vernon Miscellaneous	13-24-15E 23-16E		56,192 147,000†		8 8†	"Squirrel"	1,080
Total Woodson	County	320	203,192†				
		WYAN	DOTTE COUN	TY			
Roberts-Maywood*	11-23E		1,688		1	"Peru" "Squirrel"	

^{*} Field extends into adjacent county or counties.

** All figures at base of 14.65 psia.

‡ Corrected cumulative.

‡ Estimated.

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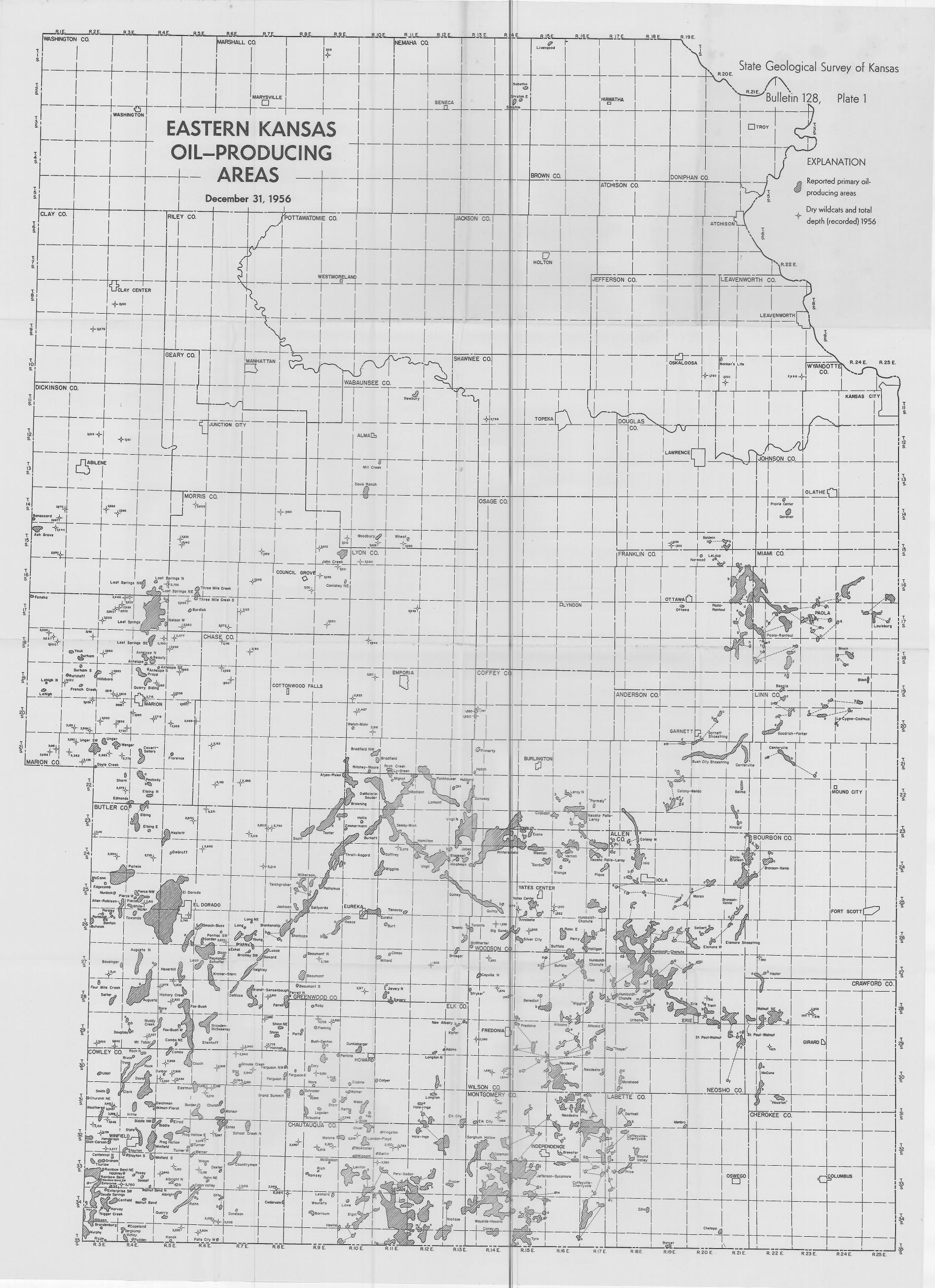
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State Geological Survey of Kansas	S DATA ON	SECONDARY RECO	VERY PROJECTS IN	I KANSAS, 1956, co		Bui	lletin 128, Table I
No. Field	Project Location Cooperative or unitized Year started	Total de- veloped acre Producing formation	Thickness of producing zone, feet to producing zone, feet Flowing	Pumping and property of the producing wells drilled in 1956 No. active	wells, 1956 No. injection wells drilled in 1956 Medium of	Source of water Average bbl. water inject- ed per well	per day Cumulative secondary oil recovery per developed acre, bbl. Production attributable to secondary recovery in 1956, bbl.
126 Thrall-Aagard Arkansas Fuel Oil Corp. E. 127 do Ohio Oil Co. Ms	6-24-10E	92 do 30 do 84 do 372 do	36 2,550 0 45 2,350 0 37 2,300 0 50 2,300 0	5 5 0 2 2 0 9 9 0 42 42 1 3	2 do 0 do 0 do	Douglas sand 235 Salt water sand 300 Douglas sand 173 Douglas and Arbuckle 125	479 20,172 124 6,260 8,190 125 5,023 22,369 126 5,175 130,206 127
129 do Phillips Petro. Co. As 130 do do Ce	24-9E;31-23- 10E;6-24-10E ard Block 14.28-24-9E Unit. 1938	98 do 48 do 172 do	42 2,200 0 40 2,100 0 35 2,200 0	8 8 0 3 2 2 - 21 21 1 1	0 do - do 0 do	Douglas 206 Douglas and produced - Arbuckle and produced 330	7,133 12,391 128 129 4,060 196,600 130
133 do Sinclair Oil and Gas Co. Th	ewis and Cannon 11,12-24-9E Unit. 1945 Chrall-McKee Consolidated 28,29,30,32, Unit. 1949 (ater Flood 33-23-10E	80 do 644 do - do	50 2,300 0 31 2,300 20 20 1,615 0	13 13 - 10 10 10 59 79 0 5' 38 38 1 3	0 do	Douglas and produced - do 150 do 188	131 8,220 48,600 132 4,570 170,912 133 - 1,500 134
135 Quincy Delhi-Taylor Ofi Corp. Son	outh Onings		24 1, 1 WOODSON COUNTIES 20 1,500 0	065 1,089 25 707 22 22 - 17	- Salt water	ional secondary recovery production Arbuckle	706,000 5,144,590
136 Price Veeder Supply and Lat Development Co.		30 do 30	TE COUNTY 10 - 0	14 14 - 10 14 - 10	- Fresh water _ Estimated additi	Shallow and returnonal secondary recovery production	- 136
of Texas	20-22E 2,3-20-23E;34, No 1942	LINN 210 "Squirrel" 81 "Peru"	30 570 83 20 250 20	16 99 0 99 30 50 0 48	O Salt water	Arbuckle 15	35,600 35,600 1,761 29,224 137
	Neg Water Plant	LYON 50 "Bartleswille"	T03 COUNTY 30 2,200 0	46 149 0 147 5 5 0 3	au au	Wilcox 19 onal secondary recovery production	1,608 14,939 138 19,500 63,663
	uck Unit π 32,33-21-12E Unit. 1943	- do - do 50	40 1,900 0 25 1,950 - 0	4 4 3 1 9 9 3 4	0 do - do	Arbuckle and 299 "Bartlesville" "Bartlesville" 300 Douglas and produced - onal secondary recovery production	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
145 do Continental Oil Co. Gra	aber Pool Water Flood 20,29,32- Coop. 1947 1,4	30 "Hunton" .00 do 90 Mississippian lima	25 3,285 0 16 3,200 0	4 4 0 1 56 56 - 21 6 6 6 - 1 66 66 0 23	0 Fresh water - Salt and fresh - Salt water	Shallow sand 60 "Hunton", Kansas City - and fresh water Mississippian lime -	2,791 13,175 142 143 144
145 Novinger Columbian Fuel Co. Nov	vinger Unit 22,23,26,27, Unit. 1956 1,42 34,35-33-30W	29 Marmaton	COUNTY 15 5,300 12 COUNTY	18 30 0 3	0 Fresh water	Fresh water sand 1,750	145
148 do W. M. Dary Alvo	26-16-21E Coop. 1948 4 Ford and Minden Farms 11-17-22E No 1953 2 Ford and Minden Farms 11-17-22E No 1956	40 "Squirrel" 40 do 20 do 8 "Bartlesville"	50 51.5 - 10 62.5 2 20 63.0 0 10 600 0	4 17 19 5 20 18 18 1 15 8 8 0 3	- Fresh water 3 Salt water 3 do	Pond - Pennsylvanian lime 311 Mississippian lime 20	146 1,204 * 147 - * 148
151 do General American Oil Co. NYK of Texas 152 do do Prod	Take Development 15,16,20,21, Coop. 1953 26 29-16-24E No. 2 and Seaborn 22,23,26,27- No 1944 28 18-22E 20ducers 15,16,21,22, No 1945 62 26,27-17-22E	37 do	35 400 0 1. 20 350 104	41 141 7 75 1 105 0 99 3 178 0 196	3 do 28 do 0 do	do 8 Arbuckle 105 do 9 33	775 94,000 150 1,181 20,588 151
154 do Maracaibo Oil Corp. Unit	t-Buston	30 "Squirrel" 30 do	30 700 0 3	35 35 1 12 35 125	0 do 8 - - Salt water	do 33 Hertha limestone 25 Arbuckle 30	913 51,397 152 - 25 153 4,000 * 154
155 Wellsville-Shoestring C. P. Weisner Phil Totals	llips Unit 24-16-21E No 1956 14		12 670 0 1 321 31	0 10 2 2 8 639 16 426		Maracaibo Oil Co. 17	0 0 155 282,761
158 do 73 W	feyville 17,19,20, No 1954 : 30-34-17E		Y COUNTY 14 1,250 0 1 20 600 0 4	0 10 0 3 2 42 1 8	O Salt water O Fresh and produced	Big Salt and return 27 River 60	448,771 156
159 do do Recte 160 do Layton 0il Co. Laber 161 do do Marde	ey 7-34-17E - 1946 60 ter Field 9,10-34-17E No 1948 60 ette Oil Co. Flood 2-32-17E No 1955 10	O do O "Bartlesville"	20 330 0 2 20 320 0 2 12 700 0	0 20 - 20	- Salt and fresh - Salt water	Formation and City of - Coffeyville Arbuckle and formation -	1,200 3,000 157 158 - 159
163 do Kirkpatrick and McGuire Speed 164 Neodesha Layton 0il Co. Flood	aub, Frost, Benson, 11,14-33-15E - 1955 50 vorse and Jackson ed Recovery, Inc. 22-33-15E No 1952 12 od 11 12-31-16E No 1952 55	0 do 2 do	17 725 0 2 25 1,109 0	0 20 4 27 7 7 - 6 4 4 0 1	4 Salt and fresh - Fresh water	Mississippian 27 Arbuckle and Drum Creek 51 City of Independence - City of Independence 86	46 * 160 1,316 49,103 161 162
166 Wayside-Havana Alpine Oil and Gas Co. Fee N 167 do Consolidated Gas, Oil and Bell Manufacturing Co.	No. 2 16-31-16E Unit. 1956 20 No. 2 34-33-14E No 1949 20 Nos. 1 and 2 10,11-34-14E No 1944 47	"Weiser sand" "Wayside sand" do	12 915 0 11 18 500 0 1 18 700 0 1 22 637 6 1.	5 5 2 1	0 Salt water 1 Salt and fresh 0 Salt water	### City of Independence	1,002 7,565 164 2,500 165 1,315 * 167
169 do do Haver 170 do do Shim	ener 33-33-14E No 1953 75	5 do 0 do 0 do	22 637 10 2: 22 680 0 2: 22 636 0 635 20 635 0 66	8 38 0 27 1 21 4 16 5 16 0 11 5 36 2 23	ESTIMATED addition	do 17 do 23 do 10 Big Salt and return 20 al secondary recovery production	2,685 8,980 168 481 12,012 169 2,391 3,817 170 1,119 * 171
	Project 26,27-32-17E Coop. 1955 5 e Project 26,27-32-17E Coop. 1955 3	"Dennis sand"	ABETTE COUNTIES 15 700 25 200 0 0	285 14 199 4 1 0 4 1 0 8	1	Mississippian and produced 55	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
176 Humboldt-Chenute Belleair Oil Corp. Odens 177 do do Weine	hart, Ermey and Faust 34,35-28-20E Unit. 1953 40 Trend 14,15-28-19E Unit. 1952 5 se Block 7,18-27-20E No 1953 40 er Block 4,9-27-18E No 1951 150	do do	COUNTY 25 500 0 30 50 625 0 16 14 750 0 17 18 750 37 36	30 - 20 5 16 0 3 17 2 10	O Salt water	City water and lime - 120' well 25 Mississippian lume 60	174 175
179 do Caddo Oil Co. W. M.	1,2,10,11,12, No 1938 1,000 14,15,22,23,27, 28-27-18E; 6,7- 27-19E . Wells Flood 14,15-27-19E Coop. 1952 35	do	50 760 400 12	73 3 57 412 0 426	3 do	do 150 Return and Neosho River 40	15,000 176 2,140 90,000 177 4,172 117,397 178
181 do Edwards and Purviance L. J. Golf (. Wells Flood 6,7,12-28-18, Coop. 1952 62 19E . Richard and Erie 19,20-28-19E Unit. 1951 5 Club	do do	0 825 0 13 55 750 0 26 - 535 0 7	18 0 3 26 13 11 7 1 2	, do	Mississippian lime 49 do 86 50' well 25	361 2,171 179 747 18,293 180 - 3,600 181
183 do Richard J. Sanders Banks 184 Neodesha Keas Drlg. Co., Inc. Thayer 185 St. Paul-Walnut W. P. Callahan, Jr. Henry	16-27-18E Unit. 1955 10 sr Project 16,17-29-17E - 1954 - v Van Leeuwen 33-28-21E No 1955 80	do 1	5 750 35 95 0 725 0 5 0 840 0 42 5 400 0 23	130 0 89 6 2 - 42 9 19	O Salt water A	ravel and return 50	- 43,180 182 183
Totals	21,28-28-21E No 1953 10 1,722	do 2	0 380 0 472 33 7	23 3 15 9 - 3 809 33 658	do s	well and return 1,200 furface water 120 hallow sand 120 hallow sand 120 hallow sand 120 hallow sand 130 hallow sand 120 hallow sand 120 hallow sand 120 hallow sand 1,200 hall	27,710 184 3,601 185 - 186 169,309 490,261
	gart Unit 13,14,23-3-19W Unit. 1952 165	Lansing-Kansas City 3	5 3,200 0 11	11 0 2	O Salt water D	akota 360	169 24,794 187
26000 00000 260000000 200000000 2000000000 200000000	14,22,23,26, Unit. 1955 1,492 27-28-12W	"Simpson sand" 28	5 4,41 5 0 48	4 8 0 9	O Salt water To	opeka 800	213 317,645 188
190 Abbyville Skelly Oil Co. Abbeyvi	ngham Pressure 19,20,29,30, No 1936 1,400 ainance Project 31-27-10,11W ville Water Flood 24-24-8W No 1948 200	Lansing 16 RENO COU	INTY	67 0 5	- Gas _	510 Mc.f.	1,482 87,264 189
Totals	Creek Unit 20,31,6,35,36, Unit. 1951 480 1,2,11,12-22, 23-9,10W 680	Viola 10	0 3,750 0 28 0 32	4 0 2 28 0 6	O Salt water To do Pr	peka and Lansing 171 oduced 565	343 45,063 190 8 3,687 191 48,750
192 Orth Artnell Co. Habiger		Topeka (Shawnee) 7	2,700 O 2	2 - 1	- Salt water To	peka and produced _	192
194 Layton do Holy Cr 195 Marcotte The Texas Co. H. Berl	Nater Flood 16,17,20,21- No 1952 120 9-16W Cross Flood 33-8-16W; No 1953 80 4-9-16W Pland "A" 19,30-10-19W - 1954 300	Lansing-Kansas City - do - Arbuckle 15	3,340 0 9	23 0 1 9 0 1	O Salt water Pro	oduced 50 do 72	0 0 193 0 0 194
Totals	B. Lease Well No. 1 23-18-16W - 1956 350	RUSH COU	□ 15 0 47 0 TY	15 - 1 47 0 3	- do Pro	oduced Arbuckle	195 Ō
A COMPANY OF THE PARTY OF THE P		Reagan 20		22 0 1	O Salt water Gas	soline plant and 250 - duction	O 196
198 Gorham do D. Brand 199 Hall-Gurney Cities Service Oil Co. Carter-G 200 do do Hall-Gur	Finther Project 19-12-15W - 1954 30 adenburg Project 20-14-14W Coop. 1954 130 Graham Flood 28,29-14-13W No 1950 180 arney Flood 24,25,26- Coop. 1949 270 14-14W	Lansing - do - Lansing-Kansas City - do -	3,100 0 2 3,100 0 6 2,945 0 7 2,950 0 16	2 0 1 6 0 1 7 0 1 16 0 4	0 do Doug	duced 371 - glas and produced 562 - duced 114	3,314 198
202 do Petroleum Management, Inc. do 203 do Skelly Oil Co. Hall-Gur	Ater Flood 27,28-14-14W Coop. 1953 480 do 21-14-14W Coop. 1956 80 urney Area 29,32-14-13W; Coop. 1950 680 25,27-14-14W	Lansing 136 Lansing-Kansas City 275 Lansing 18	3,000 0 16 2,963 0 2 2,890 0 19	16 0 9 2 0 1 19 0 5	O do Dako O do Lan	do 189 ota 200 sing-Kansas City 200 -	28 7,484 200 273 78,076 201 - 202
205 do do L. H. an 206 do do E. P. Gu 207 do do Mohl and	and S. Boxberger Project 10,11,14,15 1954 230 14-14W Coop. 1955 100 d Shaffer Project 18-14-13W Coop. 1953 200	do - do - Tarkio 11	3,100 0 7 3,050 0 11 3,150 0 2 2,325 0 14	7 0 2 11 2 5	O do Dako	sing ta and produced 141 - do 180 -	107 32,517 203 10,297 204
Refinery Association Totals	2,700	Tarkio 8 RUSSELL and ELLIS	2,300 0 8 0 110	14 0 5 1 1 110 2 37	do Doug	do 50 - clas and produced 13 - clas and produced 250	0 206 0 207 0 208 177,181
210 Robbins Magnolia Petro, Co. Henry Ro	stin Water Flood 25,36-12-16W; No 1952 450 30,31-12-15W	Dodge and Lansing- 90 Kansas City SEDGWICK COU	3,000 0 14	14 4 1	2 Salt water Dako	ta 350	173 14,000 209
211 do Pan American Oil Corp. Robbins I	Field 20-28-1E Coop. 1947 200 280	Mississippian lime - Mississippian chat 40 STAFFORD COUN	0 15	0 0	O Salt water Produ O Salt and fresh Produ		$ \begin{array}{rrr} 7,217 & 210 \\ 47,700 & 211 \\ \hline 54,917 \end{array} $
213 Fall Creek The Texas Co. Fall Cree Wellington Cooperative Refinery Ass'n. Wellington	ek Unit 3,4,9,10-35-3W Unit. 1956 510	Lansing-Kensas City 37 SUMNER COUNT "Simpson sand" 26		21-25 21-25 21-25 21-25 21-25-25) Salt water Produ	106	0 0 212
Totals 215 Weedesha	28,29,32,33- Unit. 1953 900 31-1W; 4,5,6,7, 8,9-32-2W	Mississippian 20 WILSON COUNT	3,600 0 99 6 106	13 0 0 99 - 21 112 0 21	Salt water Topek	a	- 213 - 214
215 Neodesha Keas Drlg. Co., Inc. Thayer Pro 216 Neodesha East Rujo Drlg. Co. Dickens Totals	16,17-29-17E - 1954 - 15-30-17E No 1956 15	"Bartlesville" 30 do 14	840 0 42 910 0 4 0 46	42 9 19 0 4 0 1 1 46 9 20 3	Salt water Deep water do Fort : Estimated additional sec	well and return 1,200 - Scott lime 50 - condary recovery	27,711 215 300 216 11,637 39.648
217 Neosho Falls-Leroy Susmio Cil Co. Neosho Fal Totals * Production not to be revealed; included in county total.	111s Flood 24-23-16E No 1952 100	WOODSON COUN "Squirrel" 10	925 0 26 0 26	26 0 13 0 26 0 13 0	Salt water Kansa: Estimated additional sec	s City 18 1,1 condary recovery	274,200
€ Shut down in 1956.	00 0 10 0 65 85 00 8 85 8 20 86	1 000,1 00 00 00 00 00 00 00 00 00 00 00 00 00	00 UNB 001	200 200 201-25-25, Va. 52 100 201 201 201 201 201 201 201 201 20	to delicate the second	do do senso de constante de con	295,996

State Geologia	cal Survey of Kar	7 <i>505</i>	DATA (ON SECONDARY	RECOVERY PROJE	1 3		del	susuay, ja	Bull	letin l	28, Tal	ble I
No. Field	Operator	Project Oct		veloped acre Producing formation	Thickness of producing zone, feet Average depth to producing zone, feet	Active wells Flowing and a control of the control	Total No. producing walls drilled in 1956 No. active injection wells, 1956	No. injection wells drilled in 1956 Medium of injection	Source of water	Average bbl. water injecte per well per day	Cumilative secondary oil recovery per developed	Eroduction attributable to secondary	1956, pp.
l Bronson-Xenia 2 do 3 do 4 Elsmore Shoestring 5 do 6 Elsmore West 7 Humboldt-Chanute 8 do 9 do 10 do 11 do 12 do Totals	Mack C. Colt D and C Oil Co. Southeastern Co. Fees and Hoyt Pavlicek Bros. Eureka Oil and Gas Co. C and M Oil Co. Gamble, Wright and Crur General American Oil Co of Texas E. F. Gidley Weiner Petroleum Co. C. A. Willis	Humboldt-Chanute mley Wolf-Tebay Lease	22,27,28, No 1951 200 33-24-21E 34-24-21E - 1955 - 33-24-21E Part. 1955 15 3,4,10- Unit. 1941 180 26-21E 16-26-21E - 1944 - 32-25-21E Coop 100 18,19-26-20E Coop. 1953 40 24-26-17E Coop. 1953 160 16,17,18,19, No 1938 322 20-26-18E 16-26-19E No 1952 15 13,14,23,24- No 1942 371 26-18E 25-26-18E - 1953 80	"Bartlesville" do do do do do do do do do do do do do	ALLEN COUNTY 18 700 12 695 15 760 20 660 28 700 20 730 13 700 30 840 30 800 13 10 860 25 825 15 830	10 1 8 68 68 68 68 69 12 11 17 1 20 2 13 15 10 11 214 21 32 3	0 0 5 4 11 129 2 - 4	30 Salt water 3 Salt water - Fresh and salt water 0 do - Fresh water 0 Fresh water 0 Fresh water 0 Salt water 0 Salt water 0 Estimated a	Arbuckle and return Arbuckle and stream Arbuckle and stream Mississippian Stream and well "Oswego lime" Neosho River Mississippi limestone do "Oswego lime" additional secondary recovery	35 17 	4,035 - - - - - 3,129 - 1,718	162,400 6,935 - 51,947 12,000 62,100 - 261,816 557,198	1 2 3 4 5 6 7 8 9
13 Humboldt-Chenute	C. P. M. Corp.	K. T. Unit	32,33-26-18E,— No 1956 45 4-27-18E	"Bartlesville"	nd NEOSHO COUNTIES 25 750 (DERSON COUNTY	14 1	4 8 20	14 Salt water	Mississippi limestone	50	331	14,705	 13
14 Bush City Shoestrin 15 do 16 do 17 Centerville 18 Colony-Welda 19 do 20 do Totals	ng Deep Rock Oil Corp. General American Oil Coof Texas Maracaibo Oil Corp. Schermerhorn Oil Corp. W. S. Fees do do	Salmon Oil Corp. Reed, Connelly and Loriaux Starit Centerville Flood Stauffer-North Hyde Unit No. 1 Unit No. 2 DeGeer Unit	7,8,15,16-21- 1949 371 20E 4,5,7,8,18-21- No 1939 986 21E; 12,13,14- 21-20E 8,9,16,17- No 1953 80 21-20E 4,10,15,22- Unit. 1947 347 21-21E 22-22-19E Neither 1947 20 27,28,33- Unit. 1948 360 22-19E 28,29,32,33- Unit. 1954 320 22-19E 2,3-33-15W Unit. 1954 920	"Squirrel" do do "Bartlesville" "Squirrel" do do	20 800 81 30 620 400 11 700 0 15 725 7 15 800 15 800 15 800 ARBER COUNTY	40 40 5 6 79 0 13 13 0 87 89 0 14 14	9 0 389 0 0 40 9 0 50 3 0 7 7 0 34	0	Arbuckle and Mississip Arbuckle Purchased Mississippi limestone Arbuckle well - 1640' Arbuckle Arbuckle well - 1461' dditional secondary recovery p	28 30 22 13 17 23	- 2,295 3,500 1,624 3,391 677 84	76,000 46,326 2,427 45,743 26,060 215,000 567,688	14 15 16 17 18 19
22 Bronson-Kenia 23 Davis-Bronson	A. B. McClimans and Son Albert Markham Oil Co.		8-24-22E - 195 6 2 11-24-21E Neither 1955 40		25 5,200 OURBON COUNTY 10 550 21 670	3 3 8	0 1	Salt water 1 - 0 Salt water	Viola Mississippian and retur		-	neden ub esphere str	21
Totals 24 Blankenship 25 do	Franco Central Oil Co. T. O. Lilystrand, Jr.	Hughes Flood Dunne	9-26-8E Coop. 1951 80 9-26-8E Coop. 1956 35	"Bartlesville"	UTLER COUNTY 67 2,500	11 11	0 2		Mississippian condary recovery production Douglas sand	380	0	26,800 26,800 42,843	23
25 do 27 do 28 El Dorado 29 do	L. A. Seidenfeld Sohio Petro. Co. Cities Service Oil Co. do	Sallyards Flood do El Dorado Shallow Finney	16,17-26-8E - 1952 60 9,16,17-26-8E No 1949 157 5,6-26-5E; Coop. 1947 4,800 19,20,21,28, 29,30,31,32, 33,34-25-5E	do do El Dorado shallow sand	30 2,500 (30 2,560 - 43 2,500 (16 650 (18 18 547 547		0 do 0 do 0 do 88 do	Arbuckle Arbuckle and return fro "Bartlesville" Arbuckle Arbuckle and produced	110	4,550 745	42,543 0 6,745 43,563 1,322,041	24 25 26 27 28
30 do 31 do 32 do 33 do 34 do 35 do 36 do 37 do 38 do 40 do 41 do 42 Fox-Bush 43 do 44 do 45 Haverhill 46 Hazlett 47 Smock-Sluss 48 do 49 do 50 do 51 do 52 Snowden-McSweeney Totals	do do do do do do do do Gulf Oil Corp. Magnolia Petro. Co. Musgrove and Milliken Skelly Oil Co. do Stelbar Oil Corp. The Texas Co. Eckland Drlg. Co. Magnolia Petro. Co. Morrison Producing Co. Cities Service Oil Co. Rex and Morris Drlg. Co. Burton Oil Producing Co. L. A. Seidenfeld Skelly Oil Co. The Texas Co. Rex and Morris Drlg. Co. Rex and Morris Drlg. Co.	Marmaton Flood Wilson-K.C. Water Flood Wilson Shallow Wilson Simpson Flood A.J. Shumway Koogler No. 6 - Hazlett Water Flood Page Water Flood Stone Lease El Dorado Project - North Fox-Bush Unit Fox Unit No. 1 Haverhill Unit Classen ∈ Smock Falkenburg Smock-Sluss Sluss Water Flood C. A. Smock Project	4,9-26-5E Coop. 1940 123 17,18,19,20, Coop. 1948 1,640 24-26-4,5E 21-25-5E No 1955 60 7,8,9-25-5E Unit. 1956 78 8,9-25-5E Unit. 1955 120 11-26-4E Coop. 1956 3 21,29,30-26-5E Coop. 1951 311 2-25-5E Coop. 1953 40 19-25-5E Coop. 1954 150 9-26-5E Coop. 1954 150 9-26-5E Coop. 1954 170 24-28-5E No - 60 23,24,25,26, Unit. 1951 555 35-28-5E 1,2,11,12, Unit. 1945 796 13-29-5E No 1953 40 13-29-5E No 1953 40 13-29-5E No 1953 40 13-29-5E No 1953 40 13-29-5E No 1955 40 24-28-6E No 1955 40 25,26-26-5E No 1955 40 26-26-5E No 1955 40 25,26-26-5E Coop. 1950 40 2-27-5E No 1955 120	Simpson Viola-Simpson Marmaton Kansas City El Dorado shallow sand Simpson sand Lensing Simpson "Peru" 700' sand "Wilcox sand" "Peru" 700' sand "Bartlesville" do do do do do do do do do do do do do	24	5 5 5 159 159 6 6 6 23 23 56 56 56 1 1 1 8 8 8 3 4 4 4 16 16 4 4 50 50 26 26 26 52 52 - 2 2 6 6 6 6 2 2 3 3 5 5 5 12 12 1,101 1,101	2 77 0 6 0 3 0 21 5 7 0 1 0 11 - 1 0 6 0 1 - 1 7 14 1 2 - 0 32 11 19 1 6 - 1 - 2 0 1 0 2 0 2 0 1	0 - 1 do 2 do 0 do - Salt water do 0 do 0 do 0 do 0 do 0 do 0 do 0 Estimated add:	Douglas Arbuckle and produced Produced do do do Lansing limestone Arbuckle and produced "Peru" Viola - Water sand Mississippian and Viola - Arbuckle Wreford sandy limestone Arbuckle and produced - 320' water well "Bartlesville" "Bartlesville" return Salt water sand Produced and Kansas City Produced itional secondary recovery pages	- 428 350 302 220 7 140 30	483 2,905 472 152 1,414 3,110 0 - 348 1,644 1,933 811 - 1,670 - 0	24,463 585,026 20,193 11,835 325,041 228,552 0 270,362 - 35,056 5,225 - 71,603 - 359,327 187,433 79,686 - 12,151 18,151 2,689 0 228,200	29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52
'53 Blankenship and Sall	yards Tidewater Oil Co.,	Blankenship	35,36-25-8E;1, Coop. 1949 960 2,3,9,10,16, 17,21-26-8E	"Bartlesville"	GREENWOOD COUNTIES 36 2,450 0	77 77		9 Salt water	Arbuckle and "Eartlesville" return	147	2,143	440,909	53
54 Teeter Totals	Glenwood Oil Co.	Leedy	25,36-22-9E - 1953 80	"Bartlesville"	ASE COUNTY 10 2,500 0 TO d LYON COUNTIES	6 6 ह ह		Salt water Estimated seco	Douglas ondary recovery	to eletion ob	alargrad0	4,000 4,000	54
55 Atyeo-Pixlee 56 Peru-Sedan	The Ohio Oil Co. Alpine Oil and Gas Corp.	Atyeo Communitization Alpine Fee	36-21-9E;30, No 1947 280 31-21-10E 22-34-12E - 1954 20	"Bartlesville" CHAUT	35 2,200 -	34 34	0 25 0) Salt water	Arbuckle	208	5,568	78,775	55
57 do 58 do 59 do 60 do Totals	Ralph Bynum F. W. Pershall G. B. Suppes Winona Oil Co. of Del.	White F. W. Pershall and Son McMillan Wall	22-34-12E - 1954 20 22-34-11E No 1952 10 4-35-12E Unit. 1953 70 27-34-12E - 1952 160 29,32-33-11E Coop. 1956 200	"Peru" do do do do do	21 1,116 0 20 1,275 0 20 990 0 20 1,150 0 20 1,200 0	10 10 3 3 8 8 13 13 25 25 57 57	- 3 1 - 7 7 0 2 1 1 15 2	Salt water do do do do do Estimated addi	Return Layton or Big Salt "Peru" sand - Layton sand itional secondary recovery pr	- 80 - - 70 oduction	-	2,035 - 559,200 561,235	56 57 58 59 60
61 Canfield 62 Couch 63 Eastman 64 Frog Hollow 65 Gibson South 66 Rahn 67 do 68 do 69 do 70 Rainbow Bend 71 Rainbow Bend 71 Rock 73 do 74 do 75 Weathered 76 Winfield 77 do Totals	Gross Producing Co. Stelbar Oil Corp., Inc. The Texas Co. Carter Oil Co. Aladdin Petro. Corp. B. B. Blair do Continental Oil Co. do Sunray Midcontinent Oil C Drillers Production Co. Cooperative Refinery Assn do Stelbar Oil Corp., Inc. Bert Frost Gulf Oil Corp. Sinclair Oil and Gas Co.	Aumann 1. Rock Unit I Rock Unit II Rock Unit Weathered Lease M. Shannon	11-34-3E - 1955 60 12,13-30-5E Unit. 1955 400 6-31-6E;31, - 1929 290 36-30-6E 16-32-5E Coop. 1952 19 29,32-34-3E Neither 1955 250 13-34-5E No 1953 100 6,7-34-6E;12, Unit. 1951 160 13-34-5E 32,33-33-6E; Unit. 1952 861 5,6-34-6E 14,22,23-34-5E Unit. 1953 150 16,17,20,21,28, Coop. 1952 575 29-33-3E 28,33-33-3E No 1956 170 11,12-30-4E Unit. 1953 110 11,14,15,16- Unit. 1951 440 30-4E 28-31-3E No 1946 40 24-32-4E Coop. 1948 10	"Bartlesville" do do do do do do do "Burbank sand" do "Bartlesville" do do do do do do do do do do do do do	20 3,335 0 0 14 2,850 0 14 2,850 0 0 25 3,375 0 0 20-35 2,900 0 0 20-30 2,900 0 0 22 3,000 0 0 22 3,200 0 0 18 2,750 0 18 2,750 0 18 2,750 0 0 20 2,800 0 0 5 2,100 38 2,980 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 4 28 28 18 18 18 4 22 22 3 6 6 6 7 7 7 5 5 25 25 15 15 15 5 9 9 24 24 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	- 1 - 3 - 1 - 3 - 3 - 1 - 1 - 3 - 3 - 1 - 1	Salt water do do do do do do do do do Salt and produce Salt and fresh Salt water do do do do do sestimated addi	Layton Stalnaker Produced "Bartlesville" "Bartlesville" and Arbuckle Pennsylvanian sand do Elgin do Shallow sand wells "Bartlesville" and ground water Stalnaker do do "Bartlesville" and "Layton" Produced tional secondary recovery produced	100 158 M c.f. 92 bbl. 508 305 350 364 206 159 285 265 - 365 - 278 630 oduction	501 76 278 1,329 324 1,517 1,630 0	0 - 123,000 - 1,653	61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76
78 "Houston" 79 St. Paul-Walnut 80 Walnut Southeast 81 do . Totals	Fallon Gas Corp. Walters Drlg. Co. Gen. American Oil Co. of Texas Walters Drlg. Co.	Tri State Oil Producers Stevens Goff Lease Walnut Brazilton	3-31-22E No 1953 22 26 ₃ 35-28-21E No 1953 12 28-28-22E No 1951 15 36-28-22E No 1954 5	CRAWF "Bartlesville" do do do	ORD COUNTY 20 200 0 20 400 0 12 385 0	12 12 10 10 7 7 5 5 5 34 34	- 3 - - 10 - 0 9 0 - 4 -	Fresh water Salt water do Fresh water Estimated addi	Well Arbuckle do Mississippian and well tional secondary recovery pro	7	- 1,588	Lazer	78 79 80
82 Enlow	Natural Gas and Oil Co.	Enlow Pool	9 -24-16 W Coop. 1956 80	EDWA	ARDS COUNTY 6 3,740 00	2 2	- 1 0	Salt water	Lansing-Kansas City lime		0	40,261	82
83 Brungardt	Champlin Refining Co.	Brungardt Water Flood Unit	2-11-17W;35, Unit. 1956 150 36-10-17W	Pennsylvanian conglomerate	ROOKS COUNTIES 22 3,400 0 LIN COUNTY	9 9	0 7 0	Salt water	Arbuckle	74	115	17,199	83
84 Paola-Rantoul 85 do 86 do 87 do 88 do Totals	Ambassador Oil Corp. General American Oil Co. of Texas do Maracaibo Oil Corp.	Ottawa Heminger-Finch Johnson Group 3 Group 7	31,32-16-21E Coop. 1955 40 20,28,29-16- No 1951 189 21E 27,34-16-21E No 1948 136 4,8,9,16,17, Unit. 1911 200 20,21-16-21E 3,10,15,22- Unit. 1942 - 17-21E 565	"Squirrel" do do do do	14 630 0 20 600 23 12 580 29 20 600 0 11 600 170 222	28 28 48 71 19 48 60 60 30 200 185 407	\$ 22 8 1 78 0 1 51 0 - 5 151 8	Salt water do do do do Estimated addit	Roubidoux Mississippian limestone do - tional secondary recovery pro	20	138 1,458 1,578 3,500	39,077 16,032 100,000	84 85 86 87 88
89 Atyeo-Pixlee 90 Browning 91 Burkett 92 DeMalorie-Souder 93 do 94 do 95 do 96 do 97 Fankhauser 98 do 99 Hamilton 100 do 101 do 102 Jackson 103 Lamont	R. E. Evans Phillips Petro. Co. T. O. Lilystrand, Jr. Cities Service Oil Co.	Fankhauser Unit Swanson Unit ∈ Associated Resources Corp. Hillman Unit Brothers Unit Ladd Lamont Unit σ	6-22-10E Unit. 1952 210 and Coop. 19,20,29,30- Unit. 1949 700 22-10E 13,23,24,26, Unit. 1942 685 27-23-10E 19,30-22-11E Unit. 1952 66 2,11,12-22-10E Unit. 1949 640 3,10-22-10E Unit. 1948 25 7-22-11E Unit. 1953 27 18,19-22-11E Coop. 1946 120 4-22-12E Unit. 1949 246 9-22-12E Unit. 1950 45 8,9-24-12E Coop. 1951 160 35,36-23-11E Neither 1956 280 35-25-8E Coop. 1956 50 23,24,25,26,30- 1949 640 22-12E; 30-22-	GREEN Bartlesville do do do do do do do do do d	39 2,300 0 51 2,300 0 51 2,300 0 33 2,100 0 30 2,200 0 55 2,100 0 55 2,100 0 25 2,100 0 24 1,900 0 25 1,850 0 12-20 1,850 0 15 2,450 0 42 1,650 0	31 31 68 68 79 79 6 6 37 3 3 5 2 2 2 11 11 20 20 1 1 12 12 3 3 4 4 4 2 2 38 38	1 25 0 3 51 10 0 50 0 0 6 0 0 38 0 0 2 0 0 1 0 0 8 0 0 15 0 0 0 3 4 0 0 2 2 0 2 0 0 1 0 0 2 7	Salt water do do do do do do do do do d	Arbuckle and produced do Douglas and produced Arbuckle and produced do do Douglas and produced do do Douglas sand produced do Arbuckle and produced Arbuckle and produced Arbuckle and produced Arbuckle and produced	475 210 162 200 150 350 98 292 50 12 65 270 105	3,865 795 7,756 1,121	187,894 301,449 171,400 10,122 521,300 10,300 12,300 27,555 39,347 1,887 20,000	89 90 91 92 93 94 95 96 97 98 99 100 101 102 103
104 Madison 105 do 106 Polhamus 107 do 108 Quincy 109 Sallyards 110 do 111 do 112 do 113 Scott 114 Seeley-Wick 115 do 116 do 117 do 118 do 119 do 120 do 121 do 121 do 122 do 123 Teeter	do Magnolia Petro. Co. Glenwood Oil Co. Sohio Petro. Co. Delhi-Taylor Oil Corp. Ohio Oil Co. do do do Phillips Petro. Co. Cities Service Oil Co. Magnolia Petro. Co. Pay Rock Oil Co. Phillips Petro. Co. do do Skelly Oil Co. Cities Service Oil Co.	Madison Unit Kipfer-McGilvray Polhamus Water Flood Polhamus Flood North Quincy Bryden-Ladd Ladd "A" Ladd Unit Hoffman Scott Clopton Unit Seeley Unit Freeburg Beal Unit McGilvray Seeley-Wick York, DeMalorie and O'Neal York Wescott Wick Water Flood Teeter Unit	11,12,14,15, Unit. 1948 1,045 22,23-22-11E and Coop. 11,12-22-11E Unit. 1949 75 34-24-9E; Coop. 1949 248 3-25-9E 4-25-9E; No 1949 200 27,34-24-9E 31-24-13E; Coop. 1955 100 5,6-25-13E 25,36-25-8E; Coop. 1953 182 31-25-9E 19,20-25-9E Coop. 1951 79 19,30-25-9E Coop. 1951 79 19,30-25-9E Coop. 1951 71 24,25-23-8E; Unit. 1945 378 19-23-9E 8-23-11E Unit. 1945 195 4,5,6,9-23-11E Unit. 1943 573 22-22-11E No 1952 30 21,22,27,28- Unit. 1950 513 23-11E 8,9,16,17- Unit. 1948 365 22-3-11E 28,33-22-11E Unit. 1943 253	do do do do do "Bertlesville" and "Cattleman" "Bartlesville" do do do do do do do do do do do do do	38 1,850 0 - 1,800 0 29 2,250 0 34 2,200 2 12 1,500 0 40 2,400 0 40 2,400 0 40 2,400 0 40 2,400 0 32 1,900 0 - 1,950 1 21 1,700 0 55 1,900 0 37 1,950 0	65 65 65 65 6 630 30 28 30 10 10 10 21 21 21 9 9 10 10 8 8 8 38 38 20 20 61 62 2 61 61 35 35 35	1 48 1 0 6 0 0 27 0 0 12 0 0 5 0 0 1 0 0 0 5 0 0 20 0 0 17 0 0 58 0 4 50 0 2 14 0 - 0 19 0 0 17 0 8 38 3	do do do do Fresh and salt Salt water do do do do do do do do do do do do do	Arbuckle and produced Douglas sand do do Arbuckle Douglas do do do Douglas and produced do Douglas sand "Bartlesville" Arbuckle and produced do Douglas and produced Arbuckle and produced Arbuckle and produced Arbuckle and produced	341 - 80 - 167 163 230 94 370 190 175 - 290 390	5,100 2,821 2,535 4,932 2,929 1,788 4,551 - - 7,947 3,303 2,340 8,624 2,741 2,330	30,568 1 - 1 49,937 1 - 1 139,160 1 27,960 1 11,630 1 27,554 1 87,700 1 50,622 1 80,003 1 - 528,900 1 428,100 1 8,000 1 56,600 1 23,100 1	113 114 115 116 117 118 119 120 121