



BULLETIN 166

Oil and Gas Developments in Kansas During 1962

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Oil and Gas Developments in Kansas During 1962

ABSTRACT

Kansas oil production in 1962 totaled 112,025,710 barrels, a 0.2 percent decrease from the previous year. Estimated production from secondary recovery projects accounted for about 18.6 percent of 1962 oil production. The output of crude oil decreased in value from \$333,266,480 in 1961 to \$332,716,358 in 1962 because of decreased production.

Natural gas production in Kansas totaled 725.3 billion cubic feet (14.65 p.s.i.a.), an increase of 6.8 percent; the Hugoton Gas Area produced 518.1 billion cubic feet, about 71 percent of the total.

During the year, 93 new oil fields, 14 new gas fields, and 1 field that was both oil and gas were discovered; 18 previously abandoned fields were revived.

In 1962, 3,793 wells were recorded as drilled in Kansas in connection with the petroleum industry. Of the recorded completions, 1,532 were oil wells, 205 were gas wells, 61 were both oil and gas, 1,641 were dry holes, and 354 were saltwater disposal wells or wells used as input wells in secondary recovery operations. Of the 1,641 dry holes, 421 were wildcats. Estimates of wells not specifically reported, but for which drilling permits were issued, bring the total number of wells drilled in the state during the year to 4,326.

In 1962, Ellis County produced 9,937,194 barrels and was the leading oil-producing county for the second straight year. The Bemis-Shutts field of Ellis and Rooks Counties was the top-ranking field in the state.

In 1962, 300.7 million gallons of natural gas liquids, valued at more than 14.9 million dollars, were extracted at Kansas natural gasoline plants. A total of 40.7 million cubic feet of helium valued at about 1.3 million dollars was extracted during 1962, all from the Otis Plant.

Proved reserves of Kansas crude oil at the end of the year were 862.4 million barrels, or 1.8 percent less than the previous year's reserves. Proved reserves of natural gas are about 18.7 trillion cubic feet, down 2.3 percent from 1961. Proved reserves of natural gas liquids were estimated at 179 million barrels, down 2.4 percent from the previous year. Kansas natural gas fields contain a large percentage of the total helium reserves of the nation.

INTRODUCTION

During 1962, production of oil declined from that reported the previous year. Both the production of natural gas and the recovery of natural gas liquids increased. The total value of the crude oil produced during 1962 was less than that reported in 1961. Prices averaged \$2.97 a barrel. The value of natural gas was greater than in the previous year. An estimated average price of 11 cents per thousand cubic feet was applied to all Kansas gas production. Estimated prices for natural gas liquids averaged \$2.00 a barrel, 21 cents less than the price estimated for the previous year.

State-wide data by county of the significant developments in the oil and gas industry are included in a single table (Table 1) which allows quick comparison of areas of interest. During the year 93 new oil fields, 14 new gas fields, and 1 field that was both oil and gas were discovered. Drilling and exploration activities compared favorably with 1961. Ness County had the most new fields discovered during the year, 8. Other counties in which several new fields were discovered are Barton, Ellis, Graham, Harvey, Rice, and Stafford. Figure 1 is a generalized map of Kansas showing geographic distribution of areas producing oil and gas.

Ellis County in 1962 remained ahead of Barton County as the leading oil-producing county in the state. The Bemis-Shutts field (Ellis and Rooks Counties) replaced the El Dorado field of Butler County as the top oil producer in 1962.

TABLE 1.—Summary of 1962 operations, by county.

County	No. of prod. fields	Oil prod., bbl.	Gas prod., Mcu. ft.	Wells drilled in 1962					Reworked wells							No. of new wells drilled*	No. of intents-to-drill issued**	No. of producing oil wells	No. of producing gas wells			
				Oil	Gas	Oil and gas	Repres. or disp.	Dry wildcats	Total dry	Oil	Gas	Oil and gas	Repres. or disp.	Dry	Fields discovered					Fields revived	Fields combined	Fields abandoned
Allen	12	947,749	180,000	40	-	-	35	-	-	-	-	-	-	-	-	-	-	-	180	203	1,986	70
Anderson	8	387,957	.....	10	-	-	2	-	-	-	-	-	-	-	-	-	-	-	25	33	1,214	.....
Barber	54	1,075,410	38,546,907	10	11	2	-	9	43	1	1	-	-	4	3	1	1	1	66	66	558	386
Barton	164	9,393,726	1,031,792	92	2	-	3	4	94	16	1	-	6	4	6	4	2	4	191	197	3,094	19
Bourbon	4	98,622	.....	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	11	110	.....
Brown	..	.....	.....	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	....	1	....	....
Butler	76	7,148,319	.....	75	-	-	23	16	64	9	-	-	1	3	2	1	-	-	162	180	3,135	....
Chase	6	86,533	34,000	4	-	-	-	1	3	-	-	-	-	-	-	-	-	3	7	12	53	32
Chautauqua	19	811,321	139,607	24	-	-	1	2	11	-	-	-	-	-	-	1	-	-	88	101	2,000	10
Cheyenne	5	7,330	.....	1	-	-	-	4	6	-	-	-	-	-	1	-	-	-	7	7	4	....
Clark	12	160,559	10,231,379	2	8	2	-	2	10	-	1	-	-	-	-	-	-	-	22	21	90	100
Clay	1	8,085	.....	-	-	-	-	2	3	-	-	-	-	-	-	-	-	-	3	2	3	....
Coffey	11	96,584	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	....	2	213	3
Comanche	10	40,019	5,962,421	1	5	1	-	7	14	-	2	1	-	-	1	-	-	-	21	26	21	20
Cowley	93	4,354,668	2,768,863	50	2	-	7	14	75	3	-	-	6	3	4	-	-	4	127	134	1,640	51
Crawford	7	40,239	25,000	10	-	-	7	-	-	-	-	-	-	-	-	-	-	-	66	77	222	10
Decatur	16	502,678	.....	9	-	-	-	12	33	-	-	-	-	-	1	1	-	1	42	45	111	....
Dickinson	5	46,396	.....	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	2	2	54	....
Douglas	2	42,294	.....	4	-	-	-	1	1	-	-	-	-	-	-	-	-	-	16	23	96	....
Edwards	24	572,856	3,032,807	13	1	1	-	6	25	4	-	-	1	2	2	-	-	3	40	48	134	126
Elk	32	170,932	124,756	8	-	-	1	1	7	1	-	-	-	-	-	1	-	-	26	34	338	16
Ellis	140	9,937,194	.....	75	-	-	6	9	97	21	-	-	4	6	7	1	1	-	178	192	2,446	....
Ellsworth	16	1,589,968	52,207	10	-	-	1	-	9	-	2	-	-	2	-	-	-	-	20	15	564	1
Finney	16	1,763,530*	59,196,495	18	8	-	-	6	18	-	-	-	-	-	-	-	-	-	44	36	100	659
Ford	5	35,606	270,590	1	-	-	-	6	7	-	-	-	-	-	1	-	-	1	8	7	4	3
Franklin	5	335,051	.....	15	-	-	3	1	1	-	-	-	-	-	-	-	-	-	49	61	847	....
Geary	1	721	.....	-	-	-	-	4	4	-	-	-	-	-	-	-	-	-	4	2	1	....
Gove	2	62,411	.....	5	-	-	-	2	4	3	-	-	-	-	-	-	-	2	9	12	10	....
Graham	99	5,471,446		33	-	-	2	8	63	14	-	-	-	2	6	1	1	1	98	97	1,227	
Grant	7	16,638	114,575,958	-	6	-	-	3	4	-	-	-	-	-	1	-	-	-	10	6	4	611

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TABLE 1.—Summary of 1962 operations, by county (concluded).

County	No. of prod. fields	Oil prod., bbl.	Gas prod., M cu. ft.	Wells drilled in 1962										Reworked wells							No. of intents-to-drill issued**	No. of producing oil wells	No. of producing gas wells
				Oil	Gas	Oil and gas	Repres. or disp.	Dry wildcats	Total dry	Oil	Gas	Oil and gas	Repres. or disp.	Dry	Fields discovered	Fields revised	Fields combined	Fields abandoned	Total new wells drilled*				
Rice	54	4,486,245	313,903	104	3	2	2	6	60	7	2	2	6	6	1	1	171	173	1,781	14	---		
Riley	2	221,177	-----	---	---	---	---	11	11	---	---	---	---	---	---	---	11	7	30	---	---		
Rooks	98	5,191,270	-----	62	---	---	8	9	51	28	---	7	5	---	---	1	121	127	1,508	---	---		
Rush	23	377,055	1,625,241	10	23	---	1	14	36	---	---	2	3	---	---	1	70	67	106	25	---		
Russell	42	8,019,627	392,381	90	---	---	41	2	42	16	---	2	1	3	2	2	173	183	2,981	22	---		
Saline	15	798,016	-----	38	---	---	2	2	12	10	---	2	2	2	3	---	52	56	353	---	---		
Scott	6	63,725	-----	---	---	---	---	2	4	---	---	---	---	---	---	2	4	4	14	---	---		
Sedgwick	45	2,326,855	-----	22	---	---	1	3	31	1	---	---	1	3	1	---	54	64	650	---	---		
Seward	29	1,257,017	41,340,521	31	12	7	1	9	18	---	2	---	5	---	1	---	69	58	138	422	---		
Sheridan	15	269,154	-----	---	---	---	8	3	6	---	---	---	---	---	---	---	6	13	75	---	---		
Sherman	1	62,933	-----	---	---	---	---	---	1	---	---	---	---	---	---	---	1	1	9	---	---		
Smith	---	-----	-----	---	---	---	---	2	2	---	---	---	---	---	---	---	2	---	---	---	---		
Stafford	181	5,906,575	3,523,176	79	3	---	7	4	103	19	---	2	11	7	2	2	192	175	1,518	53	---		
Stanton	6	16,397	21,613,035	---	3	---	---	9	12	---	---	---	---	---	---	---	12	5	9	252	---		
Stevens	12	399,096	151,275,228	3	6	7	---	3	10	---	---	---	2	---	---	---	26	17	23	798	---		
Sumner	68	3,053,136	321,019	13	---	---	---	14	54	2	---	---	1	---	1	3	67	55	841	24	---		
Thomas	2	-----	-----	---	---	---	---	2	2	---	---	---	---	---	---	1	2	2	1	---	---		
Trego	32	1,590,482	-----	14	---	---	1	9	35	4	---	---	1	3	1	---	50	50	295	---	---		
Wabaunsee	7	257,050	-----	---	---	---	---	2	2	1	---	---	---	---	---	---	2	2	37	---	---		
Wallace	1	-----	-----	---	---	---	---	5	5	---	---	---	---	---	---	---	5	7	---	---	---		
Wichita	2	1,404	-----	1	---	---	---	5	5	---	---	---	1	---	---	---	6	6	2	---	---		
Wilson	10	364,809	134,015	37	4	---	35	---	6	---	---	---	---	---	---	---	160	197	647	41	---		
Woodson	20	834,294	600	18	---	---	23	---	---	---	---	---	---	---	---	---	110	148	1,117	2	---		
Wyandotte	1	-----	-----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		

* Includes estimated wells.

** Based on intents-to-drill filed with the Kansas Corporation Commission.

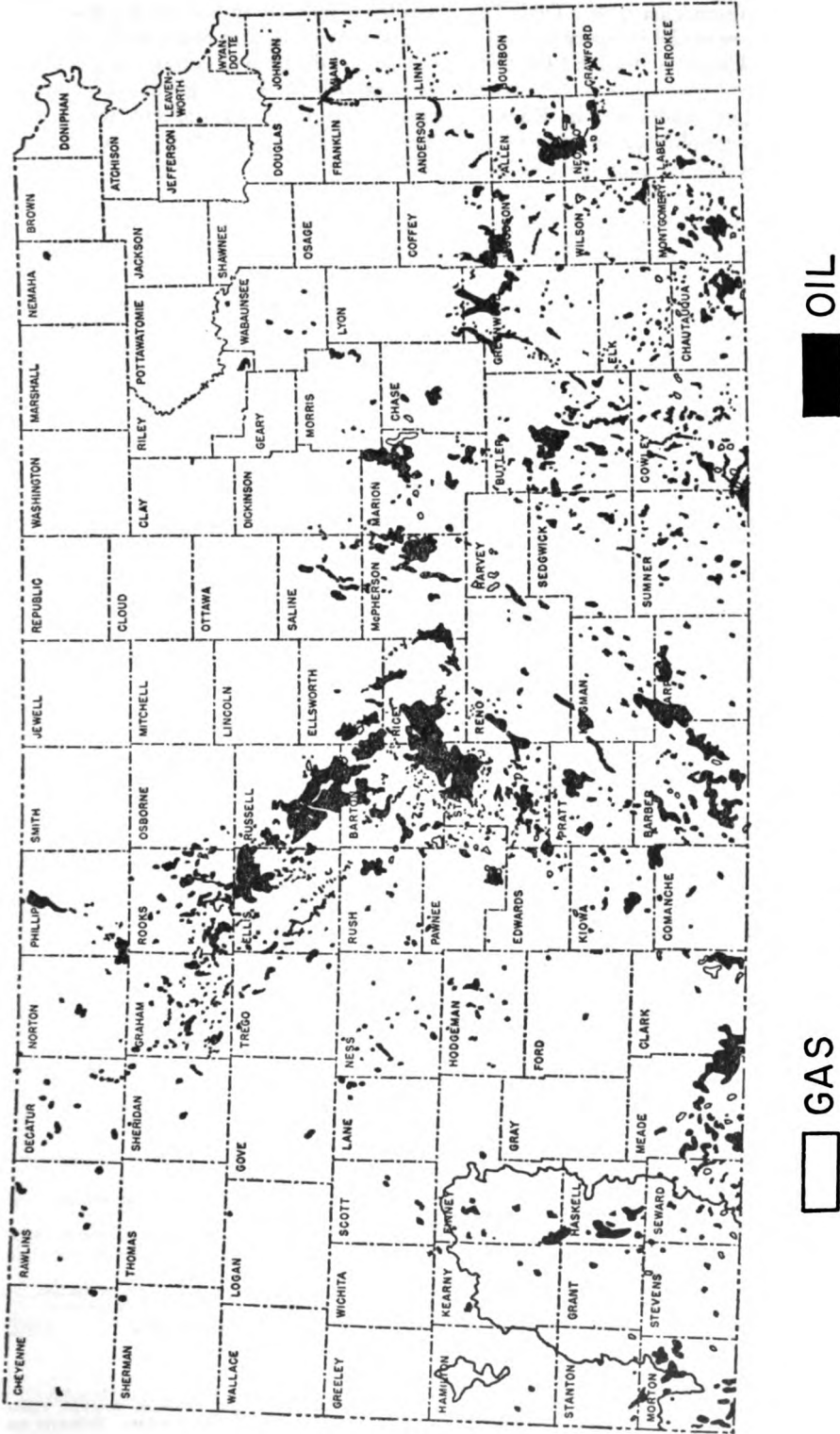


FIGURE 1. Index map of Kansas showing oil and gas producing areas.

A condensed petroleum data table (Table 2) compares various phases of the industry in Kansas with those of the United States for 1961 and 1962.

Annual oil and gas production in Kansas since 1890 is shown graphically in Figure 2. Significant discoveries and developments by the

petroleum industry in Kansas are also indicated. Production, value, and reserves of crude oil, natural gas, and liquified petroleum gases in Kansas from 1952-1962 are given in Table 3. Reserves of crude oil, natural gas, and natural gas liquids declined during the year as compared to 1961.

TABLE 2.—Petroleum data and percentage changes for Kansas and the United States, 1961-1962.

	Kansas figures		Change from previous year, percent	
	1961	1962	Kansas	United States
Crude oil production (barrels)	112,210,936 ^a	112,025,710 ^a	—0.2	+1.48
Value of crude oil produced	\$333,266,480	\$332,716,358	—0.2	.....
Kansas oil production as percentage of U.S. total	4.5	4.4	—2.3	.....
Average price of oil	\$2.97	\$2.97	.....	.....
Rank of Kansas among oil-producing states	6th	6th	.....	.....
Proved reserves of liquid hydrocarbons (at year end), thousands of barrels	1,061,606 ^b	1,041,506 ^b	—1.9	—0.28
Ratio of proved liquid hydrocarbon reserves to current annual production	8.9:1	8.8:1	—1.1	.....
Oil-producing area of "western Kansas," acres	908,880 ^c	937,352 ^c	+3.0	.....
Natural gas production, M cu. ft.	676,235,505 ^d	725,303,140 ^d	+6.8	+1.91
Value of natural gas produced	\$74,385,906 ^e	\$79,783,345 ^e	+6.8	.....
Production of natural gasoline and LPG (natural gas liquids), gallons	258,303,612 ^a	300,684,048 ^a	+14.9	+1.80
Value of natural gasoline and LPG	\$13,591,690 ^f	\$14,318,288 ^f	+5.1	.....
Proved reserves of natural gas, millions of cubic feet	19,190,005 ^b	18,668,561 ^b	—2.3	+2.2
Ratio of proved natural gas reserves to current annual production	27.5:1	25.2:1	—9.1	.....
Gas-producing area of "western Kansas," acres	3,056,740 ^c	3,246,895 ^c	+5.8	.....
New oil and gas pools discovered	104 ^g	108 ^g	.....	.....
Recorded well completions in Kansas:				
Oil ^h	1,315	1,532	.....	.....
Gas ^h	221	205	.....	.....
Oil and gas ^h	87	61	.....	.....
Dry	1,485	1,641	.....	.....
Salt-water disposal ⁱ	227	354	.....	.....
Unrecorded, estimated ^j	904	533	.....	.....
Total recorded and estimated	4,239	4,326	.....	.....
Wildcats and discovery wells (included in above total)	533	529	.....	.....

^a Figures supplied by State Corporation Commission, Conservation Division.

^b Figures from American Petroleum Institute and American Gas Association, 1962. Barrels have 42 U.S. gallons and gas is based at 14.65 p.s.i.a. at 60° F.

^c The oil and gas area of "western Kansas" includes all producing counties west of the west line of Cowley, Butler, Marion and Dickinson Counties.

^d Figures supplied by State Corporation Commission, base 14.65 p.s.i.a.

^e The minimum value of 11 cents per M cubic feet of gas at 14.65 p.s.i.a. has been applied to all Kansas gas production, although price adjustments based on b.t.u. content were ordered by the Kansas Corporation Commission in June of 1962.

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

^g Omitting revived pools.

^h Includes pool wells and new discoveries.

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

^j Counties for which number of wells drilled in 1962 is entirely or in part estimated include Allen, Anderson, Bourbon, Chautauqua, Coffey, Crawford, Elk, Franklin, Greenwood, Labette, Linn, Miami, Montgomery, Neosho, Wilson, and Woodson. Estimates are based on "intent-to-drill" records, and other reliable sources.

The total value of raw products of the petroleum industry (crude oil, natural gas, and natural gas liquids) produced in Kansas in 1962 was more than 426 million dollars, 5 million more than in the previous year. Figure 3 shows the relative values of 1962 oil and gas produc-

tion by county. Of the 105 counties in Kansas, 82 reported oil and gas production during 1962. Because the price of crude oil decreases with decreasing gravity, and because different fields produce oils of differing gravities, value by county is not proportional to production by county.

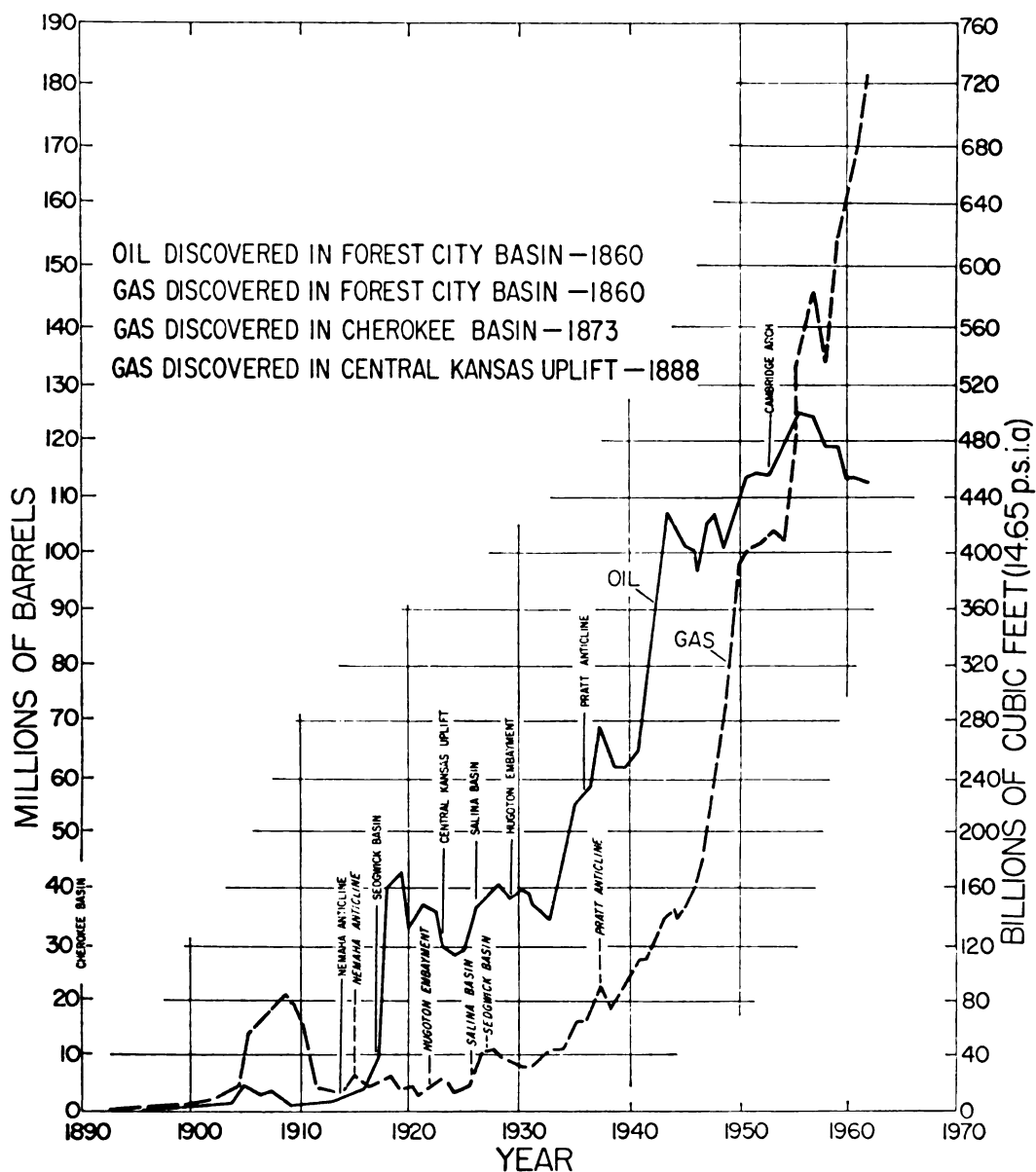


FIGURE 2. Annual oil and gas production in Kansas from 1890 to 1962 and year of discovery of oil or gas in different structural provinces.

IMPORTANT DEVELOPMENTS IN KANSAS DURING 1962

The search for new oil and gas reserves was intensified during 1962 in the area on the northeast flank of the Hugoton Embayment, paralleling the Central Kansas Uplift and Pratt Anticline. These explorational activities continued the trend from the previous year. Oil and gas from Mississippian rocks was the principal objective in Edwards, Hodgeman, Kiowa, and Ness Counties, where 20 new oil fields were discovered this year. In the same region, in Comanche and Clark Counties, potentials for Viola production stimulated many operators to think of drilling exploratory tests below the Mississippian rocks.

Farther west in the Hugoton Embayment, the high cost of penetrating Mississippian carbonates has served as a deterrent to deeper explorational tests. In the Kansas part of the Embayment, a common bottom-hole target is the St. Louis Limestone (Meramecian, Mississippian). The unconformities between the Osagian and Mississippian rocks remain essentially untested. As in recent years, the search in 1962 for new oil and gas reserves and expansions of known reservoirs above the Mississippian rocks in the Hugoton Embayment was intensive.

In far southwestern Kansas, in Morton County, the establishment of "Red Cave" (Permian) gas production in the Interstate field gave Kansas a new producing zone. The discovery well was completed at about 1,200 feet depth and the closest known similar production is about 25 miles to the south in Oklahoma.

MARKETING DEVELOPMENTS

The determination of a state's fair share of the national oil and gas market is, of course, pertinent to the health of the economy of Kansas. The Kansas oil and gas economy is also related to larger questions of national defense and foreign trade. For example, foreign crude oil can be produced cheaply and is sometimes thought to be priced according to political considerations in the "Cold War." And, although the average Kansas well now produces less than $7\frac{1}{2}$ barrels per day, these same low-yield wells would, in times of national emergency, be part of the lifeline of the nation's petroleum supply.

Marketing of Kansas natural gas liquids and natural gas has assumed an increasing proportion of the national fuel market. However, even though the national demand for crude oil has been growing with the national economy each year, Kansas' share of the domestic crude oil market (about 4.4 percent of the nation's total) has decreased in the past few years. This decline is probably a result of increased crude oil imports as well as increased oil production in some oil-producing states.

TREATMENT OF DATA

Detailed production tables for oil and gas from all producing counties are given in this report in the Statistical Table section. For the oil-producing counties, both current and known cumulative oil production, producing area in acres, name of field (alphabetically arranged),

TABLE 3.—Crude oil, natural gas, and LPG: production, value, and reserves, Kansas, 1952-1962.

Year	Crude oil				Natural gas			Natural gasoline and LPG	
	Millions \$	Millions bbl.	Reserves, millions bbl. (crude oil) Liquid hydro.		Millions \$	M cu. ft.	Reserves trillion cu. ft.	Millions \$	Millions gals.
1952	294.0	114.4	917.0	1,085.3	32.7	408.7	14.2	12.0	196.5
1953	307.6	114.4	913.0	1,091.0	37.7	420.6	15.8	13.0	211.7
1954	333.6	118.3	978.5	1,153.6	44.6	405.8	15.8	11.8	193.8
1955	341.7	121.2	998.1	1,171.3	51.3	466.2	16.3	12.0	206.6
1956	351.0	124.5	992.2	1,163.8	57.8	525.9	17.6	11.7	199.4
1957	380.8	124.0	947.5	1,136.6	63.9	580.7	19.3	13.3	223.6
1958	362.2	119.9	922.4	1,122.9	59.0	535.7	20.2	10.3	225.2
1959	354.8	119.5	917.5	1,114.4	65.5	595.2	20.0	12.3	232.9
1960	336.6	113.4	883.9	1,082.3	69.6	632.6	19.6	13.2	250.8
1961	333.3	112.2	878.0	1,061.6	74.4	676.2	19.2	13.6	258.3
1962	332.7	112.0	862.4	1,041.5	79.8	725.3	18.7	14.3	300.7



discovery year, producing zone, estimated average thickness of producing zone, estimated average gravity of oil, reported number of producing wells, and number of producing wells plugged during 1962 are given. Similar data are given for gas. Where possible, production from different zones (when prorated) is differentiated, and totals for each county are given. Where oil or gas pools extend across county lines, each county's production has been computed on the basis of individual leases.

Tables presenting pertinent data on new pools, revived fields, abandoned fields, inactive fields, and new zones discovered in old fields also are included in the Statistical Table section.

Figure 1 is an index map of Kansas showing generalized areas of oil and gas production. A larger scale map of Kansas shows all presently producing oil and gas areas in the state (Pl. 1).

Areas of oil and gas production are shown as accurately as possible on Plate 1. Where no dry holes limit the field, boundaries have been projected a short distance outside the outermost producing wells. Undoubtedly, many reservoirs extend beyond the limits indicated; however, future field developments have not been anticipated.

The Kansas Nomenclature Committee recognized 43 fields as abandoned in 1962. Also during 1962, 28 oil or gas fields were combined with other fields. As has been the custom of the State Geological Survey, outlines of abandoned fields, except those discovered and abandoned in 1962, are not shown on Plate 1.

ACKNOWLEDGMENTS

Members of the Conservation Division of the State Corporation Commission (especially John Roberts, Assistant Director, and H. A. Beverlin, oil proration analyst, and Ray Dietz, gas proration analyst) have long cooperated to the fullest extent with the State Geological Survey. Without their assistance, this report would not be possible.

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Appreciation is expressed to the Nomenclature Committee of the Kansas Geological Society for supplying data on oil and gas pools discovered during the year and for areal descriptions of existing pools.

Special thanks are due to J. E. Davies of the Kansas Sample Log Service for permission to use well-sample data on some rank wildcat tests drilled during the year, and to Data, Inc., for assistance in supplying well information.

The Survey is pleased to acknowledge assistance from Vance E. Rowe of Petroleum Statistical Guide, Inc., who supplied a part of the crude oil production figures, and from Dwight's Oil and Gas Reports, which made available some gas production figures.

Many persons engaged in various phases of the petroleum industry in Kansas, including Charles W. Studt and Harvel White, have been generous in providing data used in this report. Thanks are extended to numerous companies and to individuals who have contributed information on secondary recovery production and drilling activities connected with secondary recovery.

EXPLORATION

A summary of the explorational activity in Kansas during 1962 is given in Table 1. Test wells drilled within 1½ miles of producing limits of fields are called "extension wells." Dry test holes drilled more than 1½ miles from producing wells are classified as "wildcat wells" and summary data are included in Table 1. Because the location of boundaries of producing areas is arbitrary, definition of wildcat wells may also be somewhat arbitrary; hence, the total number of wildcat wells reported by various sources is likely to differ. Only wells drilled to completion within the year are counted as 1962 completions. Thus, wells worked over, although completed as producing wells, are not counted as 1962 completions. Unless an unproductive well was drilled expressly for the purpose of in-

jection or for saltwater disposal it is classified as a dry hole.

NEW FIELDS

During 1962, 93 oil fields, 14 gas fields, and 1 oil and gas field, were discovered in Kansas (Table 28). On Plate 1 the names of these new fields are underlined to distinguish them from the other fields. Eighteen previously abandoned oil or gas fields were revived during the year (Table 29). Of the 126 new and revived fields, 1 discovery well was carried by scout reports as dry and abandoned and 6 discovery wells were temporarily abandoned. Twenty-eight fields were combined with other fields.

Ness County had the most new fields named, 8, followed by Ellis, Harvey and Stafford Counties, each with 7, and Barton, Graham, and Rice Counties, each with 6 fields named. The number of oil and gas fields (108) discovered during 1962 is 4 more than the 1961 total. The total number of Kansas counties that have produced or are producing commercial quantities of oil or gas or both has remained at 85. Pertinent data on new pools are given in Table 28.

Table 33 summarizes oil and gas zones discovered in established producing fields during 1962; 42 new zones were named, as compared with 73 the previous year. Data similar to those presented for new fields are also given in this table. These new oil and gas zones are significant, because in many fields the new zone may be economically more important than the original discovery.

WELLS DRILLED DURING 1962

There were 3,793 wells recorded as drilled in the State during 1962 (Table 2). It is certain that numerous shallow wells in several eastern Kansas counties were not recorded and thus are not included in the above total. It is estimated from drilling permits and plugging records on file with the Kansas Corporation Commission and from other reliable sources that at least 533 such unrecorded wells were drilled in 1962. This compares with an estimated 904 reported for the previous year. The decrease in estimated wells drilled is a reflection of improved recording of well records. Of the reported tests, 1,532 were appraised as oil, 205 as gas, and 61 as oil and gas wells; 1,641 tests were dry and abandoned; and 354 were saltwater disposal wells or input wells drilled in connection with secondary recovery operations. New field discoveries and

revived fields accounted for 126 of the oil and gas wells; 421 of the dry holes were wildcat tests (exploratory holes drilled farther than 1½ miles from production). Wildcat tests drilled in non-producing counties are listed in Table 4. The geographic distribution by counties of the 421 dry wildcat tests is shown in Figure 4.

In each of four Kansas counties, more than 200 wells were recorded or estimated as drilled in 1961; in 1962, no Kansas county had over 200 such wells. In 1962 Stafford County led with 192 new wells, followed by Barton with 191, Allen with 180, and Ellis with 178. These four counties accounted for about 17 percent of the total number of wells drilled in the State during 1962. Drilling activity during 1962 was more equally distributed among the Kansas counties than during 1961.

A statute requiring drillers to file an intent-to-drill application with the State Corporation Commission has facilitated tabulation of new wells, especially in non-scouted eastern Kansas areas. Figure 5 shows, by county, the geographic distribution of wells tabulated on the basis of applications filed. Table 5 lists, by county, the number of permits issued during 1962.

DRILLING RIGS

Fewer rotary rigs were active in Kansas in 1962 as compared with 1961. Rotary rigs active in Kansas reached a peak number of 124 in December and averaged 101 per month during 1962 (Oil and Gas Journal, January 28, 1963). Cable-tool drilling accounted for 673 wells during the year. There was an average of 208 rigs of all types active during 1962 in Kansas, about 5 percent less than in the previous year (World Oil, February 15, 1963).

GEOPHYSICS

Although geophysical work has been conducted for many years in Kansas, few results have been released, because the information has potential value to its owner. At present most geophysical exploration programs in Kansas are directed toward finding new oil and gas reserves. Because expenditures in connection with the exploration programs are an essential part of the petroleum industry economy, data concerning these programs in Kansas are pertinent here.

The total number of exploration crew-months in Kansas has generally increased in the past

10 years because of the increased number of seismic parties; however, the number of gravimeter and core-drill crews has decreased. During 1962, 85 seismic crew-months were reported in Kansas.

OIL

PRODUCTION AND VALUE

The 112,025,710 barrels of oil produced in Kansas during 1962 is 185,226 barrels less than the amount produced in 1961. The 0.2 percent decrease in total value of crude oil, from \$333,266,480 to \$332,716,358 is due to decreased production.

It may be observed that in Kansas each year

more wells produce less oil. During 1962, an estimated 46,000 wells produced about 112 million barrels of oil. Average oil production per well has declined from 10 barrels per day in 1951 to about 7 barrels per day in 1962. An estimated 41,000 of the total number of active oil wells in Kansas properly may be called "stripper wells," those producing less than 10 barrels of oil per day. About 75 million barrels of oil were produced by these "stripper wells" in 1962.

The number of counties from which oil production was reported during 1962 is 81, one more (Wichita County) than 1961. No changes were recorded among the 10 leading oil-producing counties. Of these ten leading oil-producing counties, Rice, Kingman, and Cowley

TABLE 4.—Dry wildcat tests in non-producing counties.

County, company, and farm	Location	Surface elevation, feet	Depth to top of formation, feet							Total depth, feet
			Heebner	Lans. K.C.	Missis- sippian	"Kinder- hook"	Viola	Simp- son	Arbuckle	
Gray County										
Pan American Petro. Corp. No. 1 Brady Gas Unit	C NE SW 10-24-28W	2,756	.....	.....	.....	1,868 ^a	2,810 ^f	.....	.....	3,300
Beardmore Drilling Company No. 1 Yeager	C NE NE 20-28-30W	2,811	4,103	4,205	5,064	1,730 ^a	2,762 ^f	3,692 ⁱ	.....	5,612
Jackson County										
D. G. Hamilton No. 1 Graham	C NE SE 28- 7-13E	1,308	1,198	1,380	2,565	2,682	3,422	2,912 ^h	.....	3,450
Lincoln County										
*Don T. Ingling No. 1 Olsen	NW NW SE 11-13- 8W	1,608	2,590	2,740	3,270	1,249 ^f	3,640	3,737	3,807	3,827
Smith County										
*Kim Oil Company, Inc. No. 1 Caldwell	NW SE NW 10- 5-13W	1,760	2,924	2,973	3,875 ^h	3,861	3,995	4,206	4,281	4,305
*Kim Oil Company, Inc. No. 1 Conway	NW NW NW 20- 3-14W	1,844	3,025	3,075	3,787	3,893 ^h	4,026	4,257	4,329	4,367
Thomas County										
Arvel C. Smith No. 1 Beckman	C SE SE 25-10-32W	3,008	4,004	4,044	4,665	4,617 ^p	4,338 ^b	.....	.....	4,770
Morrison Producing Company No. 1 Fulwider	C NE NE 7- 8-36W	3,392	4,144	4,190	4,859	2,928 ^a	4,500 ^b	4,759 ^p	.....	4,971
Wallace County										
Arvel C. Smith & Toto Gas Co. No. 1 Burk	C SW SE 27-12-41W	3,707	4,215	4,240	5,202	2,939 ^a	4,603 ^b	.....	.....	5,237
Arvel C. Smith & Toto Gas Co. No. 1 Stover	C NE NE 7-12-40W	3,723	4,293	4,343	5,244	3,020 ^a	4,698 ^b	.....	5,606	5,711
*Terrel Drlg. & Producing No. 1 Walz	S/2 SW NE 28-11-42W	3,896	4,258	4,312	5,287	2,913 ^a	.....	.....	.....	5,466
K & E Drlg., Inc. No. 1 Rand	C NE NE 27-11-42W	3,885	4,290	4,341	5,216	3,077 ^a	.....	.....	.....	5,241
Natural Gas Drilling Co. No. 1 Hill	C NW NW 21-11-41W	3,808	4,295	4,345	5,254	3,068 ^a	4,699 ^b	.....	.....	5,360

^a Anhydrite.

^b Base of the Kansas City.

^f Fort Riley.

^h "Hunton."

^p Penn. basal congl.

^g Topeka.

* No electric or radioactivity logs available.

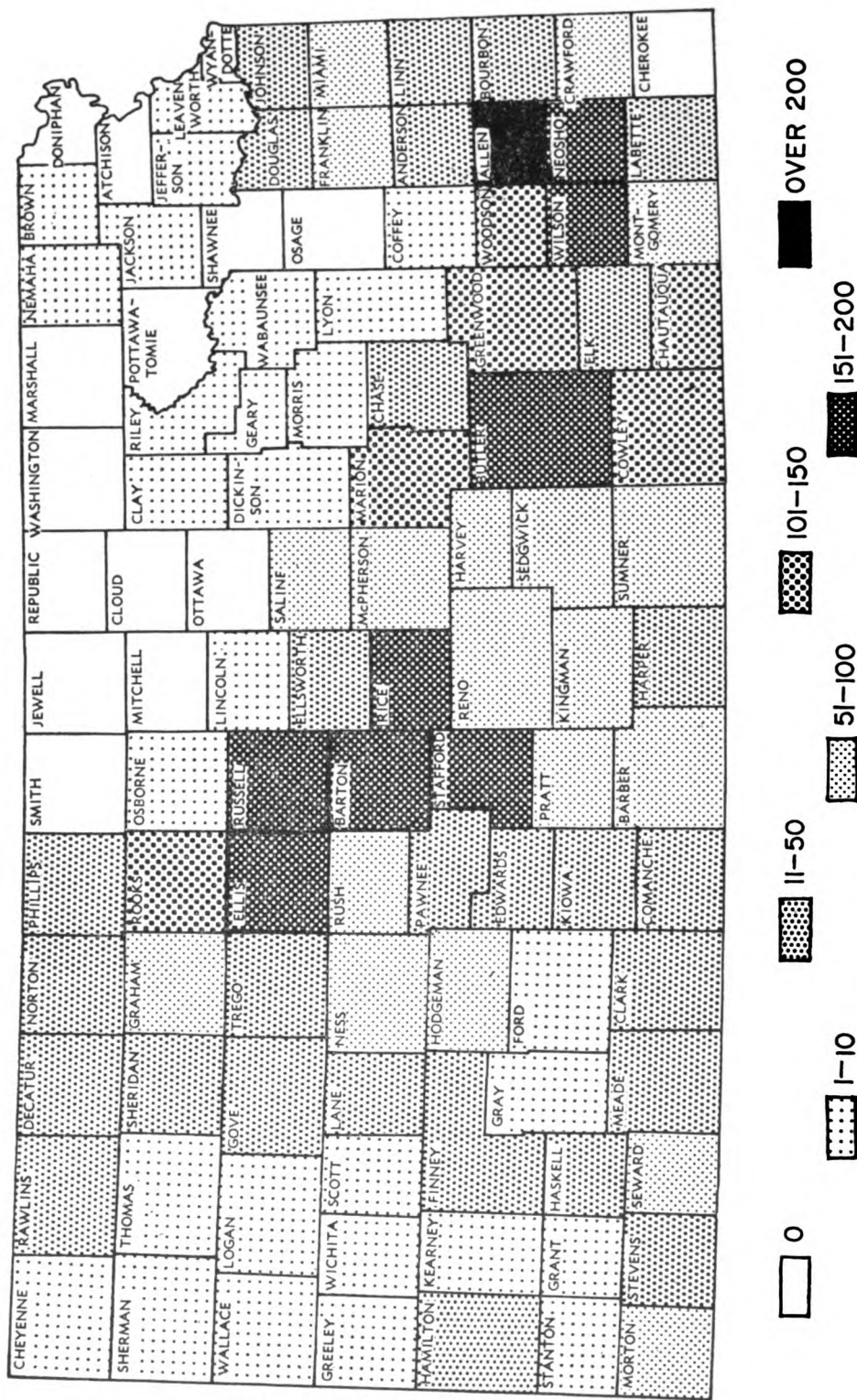


FIGURE 5. Distribution of intent-to-drill permits issued by State Corporation Commission in 1962.

TABLE 5.—Number of intent-to-drill permits issued by State Corporation Commission during 1962, by county.

Allen	203	Finney	36	Leavenworth	4	Riley	7
Anderson	33	Ford	7	Lincoln	1	Rooks	127
Barber	66	Franklin	61	Linn	14	Rush	67
Barton	197	Geary	2	Logan	6	Russell	183
Bourbon	11	Gove	12	Lyon	8	Saline	56
Brown	1	Graham	97	McPherson	78	Scott	4
Butler	180	Grant	6	Marion	113	Sedgwick	64
Chase	12	Gray	3	Meade	26	Seward	58
Chautauqua	101	Greeley	3	Miami	91	Sheridan	13
Cheyenne	7	Greenwood	124	Montgomery	63	Sherman	1
Clark	21	Hamilton	27	Morris	4	Stafford	175
Clay	2	Harper	28	Morton	61	Stanton	5
Coffey	2	Harvey	81	Nemaha	1	Stevens	17
Comanche	26	Haskell	47	Neosho	151	Sumner	55
Cowley	134	Hodgeman	98	Ness	77	Thomas	2
Crawford	77	Jackson	1	Norton	25	Trego	50
Decatur	45	Jefferson	2	Osborne	1	Wabaunsee	2
Dickinson	2	Johnson	26	Pawnee	29	Wallace	7
Douglas	23	Kearny	4	Phillips	16	Wichita	6
Edwards	48	Kingman	91	Pratt	63	Wilson	197
Elk	34	Kiowa	27	Rawlins	21	Woodson	148
Ellis	192	Labette	30	Reno	65		
Ellsworth	15	Lane	22	Rice	173		

Counties showed an increase in crude oil production during 1962 as compared with 1961 (Table 6).

Kansas has 18 counties each of which have produced a cumulative quantity of more than 50,000,000 barrels of oil (Table 7). Butler County, in eastern Kansas, ranks first, having produced 460,037,233 barrels, considerably more than the 362,095,892 barrels of second-place Barton County. In 1962, Marion County passed Chautauqua County in cumulative production, and Pratt County made the listing for the first time.

Distribution of cumulative oil production by producing zones is significant in exploration for additional reserves. About 45 percent of the

cumulative oil production has come from Arbuckle-Reagan rocks and about 32 percent from Pennsylvanian rocks; other Paleozoic rocks contributed the remaining 23 percent of cumulative oil production.

At the end of 1962 cumulative oil production in Kansas exceeded the 3.5 billion barrel mark.

TABLE 7.—Leading oil-producing counties in Kansas, based on reported, estimated, and recorded cumulative production (50 million barrels or more) to end of 1962.

County	Cumulative production, bbl.		Rank	
	1961	1962	1961	1962
Butler	452,888,914	460,037,233	1	1
Barton	352,222,928*	362,095,892	2	2
Russell	322,913,745*	330,920,048	3	3
Ellis	248,402,190	258,298,642	4	4
Greenwood	237,761,783	241,409,044	5	5
Rice	234,622,794	239,181,663	6	6
McPherson	154,789,560*	158,087,097	7	7
Stafford	150,259,574	156,094,438	8	8
Cowley	108,042,226	112,396,894	9	9
Rooks	97,730,991	102,702,787	10	10
Ellsworth	97,347,658	98,937,626	11	11
Sumner	79,132,600	82,186,201	12	12
Sedgwick	74,928,756*	77,255,161	13	13
Graham	69,413,075	74,884,521	14	14
Reno	65,546,400	66,518,752	15	15
Marion	50,168,406	52,762,680	17	16
Chautauqua	51,439,971	52,251,292	16	17
Pratt	49,577,497	51,142,788	....	18

* Corrected cumulative.

TABLE 6.—Ten leading oil-producing counties in Kansas, 1961 and 1962.

County	Production, bbl.		Rank	
	1961	1962	1961	1962
Ellis	10,281,756	9,937,194	1	1
Barton	10,022,065	9,393,726	2	2
Russell	8,128,427	8,019,627	3	3
Butler	7,572,965	7,148,319	4	4
Stafford	6,002,552	5,906,575	5	5
Graham	5,852,349	5,471,446	6	6
Rooks	5,558,741	5,191,270	7	7
Rice	4,144,726	4,486,245	8	8
Kingman	3,607,090	4,383,235	..	9
Cowley	4,020,750	4,354,668	10	10

Annual production has exceeded 100 million barrels in 17 of the last 20 years, including every year since 1947. The state has produced more crude oil since the end of World War II than before. Statistics on oil production are given by county in Tables 1 and 34.

The **El Dorado** field in Butler County, the State's second largest producer, is the only one of the seven major oil fields listed in Table 8 that lies east of the Sixth Principal Meridian, which runs through Wichita. The **Bemis-Shutts** field in Ellis and Rooks Counties dethroned the **El Dorado** field as Kansas' largest oil field in annual production during 1962. The **Spivey-Grabs-Basil** field in Harper and Kingman Counties was third in annual oil production in 1962. With the exceptions of the **Spivey-Grabs-Basil** field and the **Kraft-Prusa** field in Barton and Ellsworth Counties, all of the State's leading oil fields showed a decrease in annual production as compared with 1961.

REFINING

The names and locations of 13 refineries operating in Kansas during 1962 are listed in Table 9 as well as crude capacity, throughput, and products per stream day (Oil and Gas Journal, April 15, 1963). Petroleum refining in Kansas during 1962 was at about 85 percent of capacity.

Figure 6 shows monthly allocations of crude oil as compared with crude oil reported received by Kansas refineries and pipeline runs in Kansas during 1962. A total of 113,582,982 barrels

of crude was run to refineries during 1962, about 1.5 million barrels above the 1962 production figure. The lower pipeline runs to refineries in April probably reflects refinery shutdown. Monthly runs to pipelines and runs to refineries generally exceeded the amount allocated by the State during 1962. Figure 7 compares 1962 monthly crude oil demand forecast by the U.S. Bureau of Mines, amount nominated by purchasers, amount allocated by the State Corporation Commission, and amount actually run by pipeline companies. Purchasers' nominations were below daily average runs during most of the year.

The U.S. Bureau of Mines reported the 1962 nationwide average value of crude oil at the wellhead as \$2.89 a barrel, the same as in 1961. The Kansas Geological Survey's estimated value of crude oil per barrel (36.0° to 36.9° gravity) in Kansas during 1962 was \$2.97. Table 10 shows crude oil price changes in the Midcontinent since 1947 (World Oil, February 15, 1963). The market price for Kansas oil has been stable since 1959.

During 1962, oil processed in Kansas refineries amounted to 113,582,982 barrels. The total production was 112,025,710 barrels. Imports of oil in 1962 decreased to 43,834,148 barrels from 45,755,155 barrels the previous year. Exports of oil during 1962 decreased by 4,927,308 barrels. Total quantity of oil accounted for in 1962 was 155,859,858 barrels as compared with 157,966,091 barrels in 1961. Data on production, imports, exports, and crude oil refined in 1961 and in 1962 are listed in Table 11.

TABLE 8.—Leading oil fields (annual production in Kansas, 1961 and 1962).

Rank		Field	Year discovered	County	Annual production, bbl.	
1961	1962				1961	1962
2	1	Bemis-Shutts	1935	Ellis Rooks	4,115,878	3,988,082
1	2	El Dorado	1915	Butler	4,239,423	3,986,234
3	3	Spivey-Grabs-Basil	1949	Harper Kingman	3,725,917	3,948,813
4	4	Hall-Gurney	1931	Barton Russell	3,290,644	3,198,640
5	5	Chase-Silica	1931	Barton Rice Stafford	2,919,425	2,902,270
6	6	Trapp	1936	Barton Russell	2,541,958	2,439,392
..	7	Kraft-Pursa	1937	Barton Ellsworth	2,316,817	2,321,738

TABLE 9.—Capacities of Kansas refineries, 1962.

Company and location	Crude capacity		Charges, bbl. per stream day					Production, bbl. per stream day				
	BPCD	BPSD	Vacuum distillate	Thermal operations	Catalytic cracking Fresh feed	Catalytic reforming Recycle	Hydrogen treating Unit Feed	Alkylat-ion	Polymeri-zation	Lubes	Coke (tons)	Asphalt
American Oil Co., Neodesha	30,600	32,000	.....	.....	10,000	1,000	7,200	SR naph.	1,300	.....	.....	.....
American Petrofina Co. of Texas, El Dorado	21,400	22,500	8,000	.....	6,000	4,000	2,500	.....	450	.....	.....	2,800
Apco Oil Corp., Arkansas City	25,000	26,000	5,000	3,500	7,500	4,800	5,000	.....	.....	.....	.....	1,300
Century Refining Co., Shallow Water	5,700	6,000	2,000	.....	3,000	3,000	.....	.....	800	.....	.....	900
Cooperative Refinery Assoc., Coffeyville	24,500	25,500	6,000	8,000	10,000	10,000	4,200	Mid. dist.	1,300	500	250	1,200
Phillipsburg	13,000	14,000	4,500	.....	5,000	4,500	2,500	SR naph.	750	.....	.....	1,600
Derby Refining Co., Wichita	21,500	23,000	7,600	3,500	8,500	4,000	2,800	SR naph.	2,000	600	150	2,300
Mid-America Refining Co., Inc., Chanute	2,850	3,000	1,500	1,200	.....	.....	.....	.....	.....	.....	.....	600
Mobil Oil Co., Augusta	45,000	47,000	16,000	4,100	18,500	4,500	10,500	.....	2,400	.....	.....	7,000
National Coop. Refinery Assoc., McPherson	31,000	33,000	.....	2,000 12,000	13,000	6,000	5,000	SR naph.	2,300	1,000	400	.....
Phillips Petroleum Co., Kansas City	70,000	NR	15,000	.....	29,000	19,000	16,000	.....	6,600	2,500	.....	2,400
Skelly Oil Co., El Dorado	45,000	48,000	24,000	6,500 8,500	20,500	14,350	15,000	SR naph.	6,600	.....	500	3,000
Vickers Petroleum Co., Inc., Potwin	14,500	16,000	8,000	3,000	6,000	1,440	3,000	SR naph.	1,900	.....	.....	.....
Totals*	350,050	369,685	97,600	52,300	137,500	76,590	73,700	38,800	25,500	5,200	1,300	23,100

(Oil and Gas Journal, April 15, 1963.)

* State crude-capacity totals include calendar-day figures converted to stream-day basis.

OIL AND GAS CONSERVATION DIVISION

The Oil and Gas Conservation Division is the regulatory arm of the Kansas Corporation Commission and is charged with responsibility of preventing waste of all mineral fuels (liquid and

gaseous hydrocarbons) and for protecting the correlative rights of individuals. Until proration was inaugurated ownership of mineral wealth in Kansas depended on "law of capture." The Commission determines Kansas' fair share of the monthly demand for fossil fuels and allocates that demand among pools and wells. Within

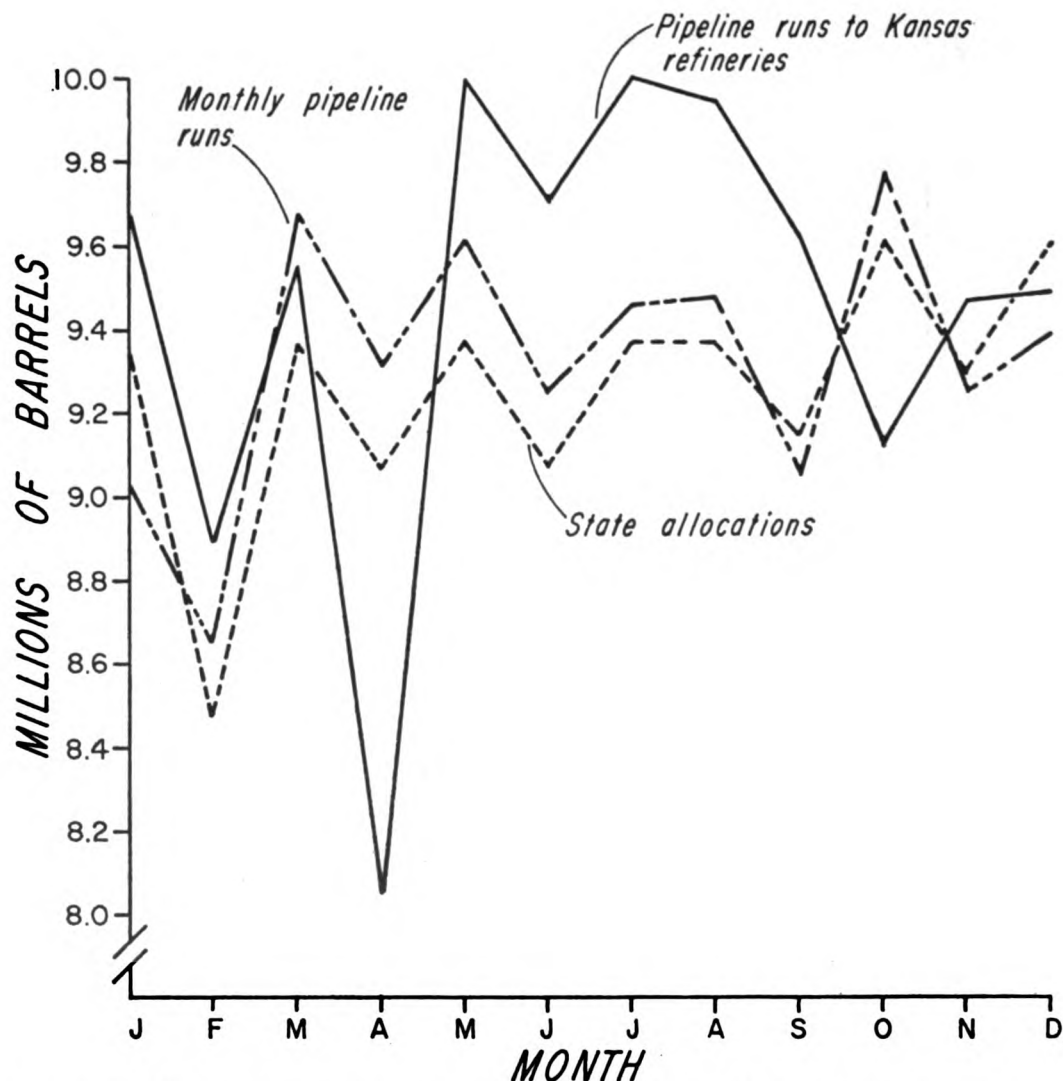


FIGURE 6. Monthly comparison of crude oil allocated, pipeline runs to Kansas refineries, and pipeline runs in Kansas during 1962.

TABLE 10.—Crude oil price changes in Midcontinent, by year (dollars per bbl.).

Date	Okla. Kansas 36-36.9° gravity
1947: March 10	\$1.87
October 15	2.07
December 6	2.57
1951: Frozen at Jan. 25 level	2.57
1953: June 15	2.82
1957: January 3	3.07
1958: October 3	2.93
October 3	3.00
1959: February 20	2.97
1960: No changes	.....
1961: No changes	.....
1962: No changes	.....

(World Oil, February 15, 1963.)

TABLE 11.—Barrels of oil produced, imported, refined, and exported in Kansas, 1961-62.*

	1961	1962
Produced	112,210,936	112,025,710
Imported	45,755,155	43,834,148
Totals	157,966,091	155,859,858
Exported	47,204,184	42,276,876
Crude oil refined	110,761,907	113,582,982
Totals	157,966,091	155,859,858

* From the Conservation Division, State Corporation Commission.

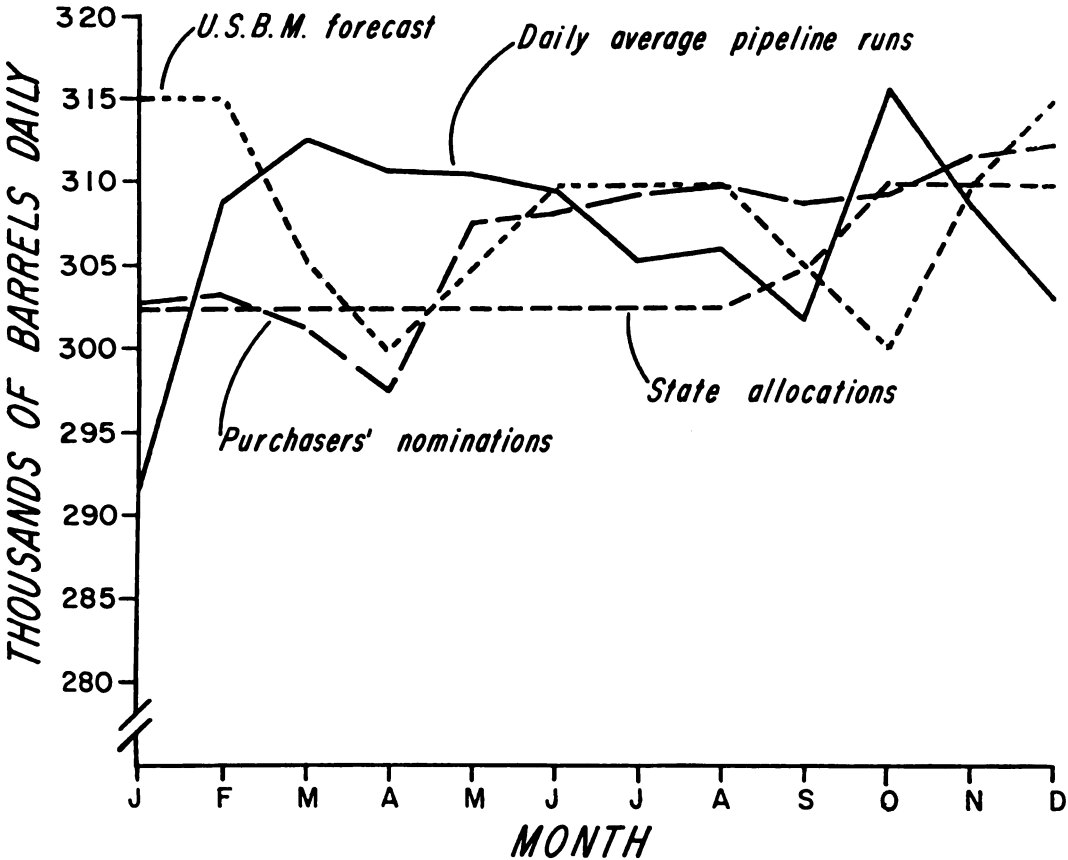


FIGURE 7. Comparison of daily average crude oil forecast, nominated, allotted, and actual pipeline runs, by months, in Kansas during 1962.

individual pools the fair share of the fuel is also allocated among owners. Kansas does not have compulsory unitization. Approval of the Commission is necessary for spacing programs and voluntary unitization of royalty interests. The Conservation Division also issues monthly oil proration reports for many of the State's oil fields, makes productivity tests of new wells, supervises dual completions and installation of packers in wells, prohibits the co-mingling of water or oil from different zones, supervises the plugging of wells and the subsurface disposal of produced saltwater. The cost of regulating the petroleum industry in Kansas is assessed to the industry itself. A fee of one cent per foot, or a minimum of \$10.00 per hole, is charged for supervision of plugging. Oil production is assessed at the rate of 0.001 cent per barrel.

PIPELINE AND REFINERY CONSTRUCTION

The refining of crude oil in Kansas refineries, the production of natural gas liquids in Kansas natural gasoline plants, and the interstate and intrastate movement of crude oil products and natural gas through transmission lines are an integral part of the petroleum industry in Kansas. Pipeline construction activities of all types are reported monthly by the Oil and Gas Journal. Some information on such activities and on natural gasoline plant and oil refinery construction also is available from the Kansas Corporation Commission.

During 1962, Skelly Oil Company announced for completion by April 30 the construction of 17 miles of 3-inch line connecting with the Faler, Brehm, and Alameda fields. Skelly purchased from Service Pipe Line Company, September 1, 182 miles of trunk line, 451 miles of gathering lines, and allied oil field equipment in eight counties: Rush, Barton, Pawnee, Rice, Stafford, Reno, Sedgwick, and Butler. They announced in December construction of 92 miles of 2- to 6-inch new lines in Pawnee, Hodgeman, and Rush Counties.

Construction of an additional 1,600-barrel sulfuric acid alkylation unit at the American Oil Company at Neodesha was announced in March. At the Derby Refinery Company in Wichita construction of a 3,500-barrel delayed-coking unit, with a capacity of 150 tons per day, was assigned to Lummus Company in March. Mid-American Refinery, Inc. has placed on stream at Chanute a 400-barrels-per-stream-day Merox unit. Apco Oil Company placed its sec-

ond Lomax hydrocracking unit on stream at its Arkansas City refinery in 1962. The Lomax unit converts middle distillate into gasoline and replaces the Apco thermocracker. Skelly Oil Company announced plans for an aromatics complex to be completed in 1963, at their El Dorado refinery. Vickers Petroleum Company, Inc. added facilities for additional recovery of aromatics at their Potwin refinery.

SECONDARY RECOVERY

Oil occurs in the minute pore spaces of discontinuous rock reservoirs, much like water held in a sponge. Where gas is present under pressure the recovery of hydrocarbons from the reservoir is somewhat like opening an agitated or warm bottle of soda pop. Unfortunately, most of the oil occurring in the Kansas reservoirs is not gas-capped, nor do the reservoirs generally have sufficient gas in solution to cause sustained flowing from wells. Because oil has little self-expulsion energy, either gravity or some induced pressure must be relied upon for movement into the bore hole. As the natural energy of the system (oil or gas reservoir) declines, a process called secondary recovery is used to replenish the energy of the system by injection of additional fluids or gases under induced pressure.

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 this practice was sanctioned by state law in 1935. Grandone (1944) reported that the first legal repressuring was done by the York State Oil Company in the Seeley pool (now Seeley-Wick) of northern Greenwood County in May, 1935. The significance of secondary recovery activities in the state is shown by the fact that such production has risen from an estimated 7 million barrels in 1949 to 20.9 million barrels in 1962, or about 18.6 percent of the total production (Table 12).

Nearly one-third of the total United States domestic oil production for 1960 (the most recent national survey) is from secondary-recovery projects (Oil and Gas Journal, June 18, 1962). During that year, 17.1 percent of the Kansas production was accredited to such projects. In Oklahoma, 40.7 percent, in Texas 25.0 percent, and in Colorado 71.2 percent of the total 1960 oil production was so accredited. Differences in the definition of secondary recovery projects among the states partially explained the large differences in percentage as compared with Kan-

TABLE 12.—Estimated secondary recovery of crude oil in Kansas, 1951-1962 (bbl.).

Year	Total	Estimated secondary
1962	112,025,710	20,850,000
1961	112,210,936	20,245,000
1960	113,344,548	19,300,000
1959	119,473,875	17,900,000
1958	119,942,094	17,100,000
1957	124,054,043	16,900,000
1956	124,467,713	15,100,000
1955	121,161,234	15,100,000
1954	118,309,260	11,200,000
1953	114,390,176	10,900,000
1952	114,399,556	10,000,000
1951	113,912,366	8,000,000

sas. In Kansas "stripper" operations lacking repressuring programs are not included.

The American Petroleum Institute's proved-reserves figures (Kansas, 1962, had an estimated 862 million barrels of oil in reserves) do not include a field's secondary reserves unless an in-

jection program is underway. The Interstate Oil Compact Commission reported as of January, 1962, 16,150 million barrels of oil originally in place, of which 110 million were appraised as economically recoverable by gas and water injection projects, and 1,500 million barrels reserves physically recoverable by newer methods (Oil and Gas Journal, June 18, 1962).

Figure 8 shows graphically the amount of oil produced by secondary recovery methods in Kansas from 1949 to 1962 relative to total oil production. Each succeeding year has found a larger number of new applications for repressuring and for extensions of secondary recovery projects, and each year has found a larger share of the annual crude oil production credited to secondary recovery projects. This trend will continue no doubt.

Early in 1963, a new Kansas Secondary Recovery Committee was organized. A questionnaire was sent by the Oil and Gas Conservation Division of the Kansas Corporation Commission to all operators of Kansas secondary recovery projects. More than 800 projects were involved.

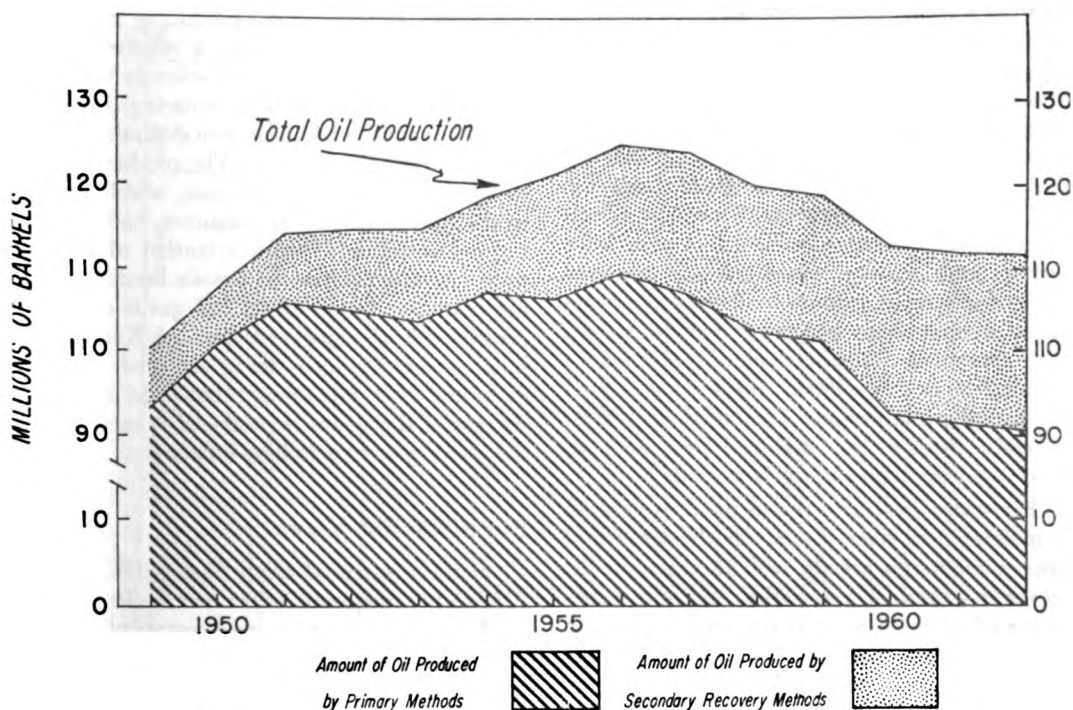


FIGURE 8. Amount of oil produced by secondary recovery methods in Kansas, 1949-1962.

The information gathered is scheduled to be reviewed and appraised by the Kansas Committee which will present the results to the Interstate Oil Compact Commission for publication.

During 1962, the Conservation Division of the State Corporation Commission issued 144 permits for secondary recovery operations, two less than in 1961. The areal distribution of these operations is shown in Figure 9. The names of the operators and locations of the projects are given in Table 13. The fact that many of the secondary recovery projects started in 1962 were in western Kansas, emphasizes the significance of the use of secondary recovery methods in the larger and older fields on the Central Kansas Uplift.

The following zones (listed in order of their importance) provided most of the oil produced by secondary recovery methods: "Bartlesville sand," "Peru sand," and "Wayside sand" (Pennsylvanian).

Salt water is used for repressuring in most of the Kansas projects. Of the many zones from which salt water is obtained for repressuring, the three main ones are sandstones of the Douglas Group, Arbuckle Dolomite, and "Bartlesville sand." Principal sources of fresh water for repressuring are shallow ground-water reservoirs, lakes, streams, and municipal water supplies. Where combined fresh and salt water is used, the brine is usually obtained from the local oil-producing formation. Treatment of salt water includes aeration, addition of chemicals, settling, and filtration; these methods are used either singly or in various combinations. Fresh water requires more treatment than brines do. Such treatment, likewise, includes addition of chemical materials (lime, chlorine, or alum) settling, filtering, or some combination of these methods. Most of the combined fresh and salt water used for repressuring is treated.

For water-flooding, ground water is generally preferable to river water. As the quality of river water varies greatly with the seasons, the necessary treatment also varies. Ground water, on the other hand, remains uniform in chemical composition for long periods; therefore, any treatment required before injection remains relatively constant.

The fire-flood method (in-situ combustion) is particularly applicable to low-gravity oil, and early estimates indicate that 50 to 80 percent of

the oil originally in place may be recovered. Some key factors in the operation of a combustion project are the amount of air required, the rate of air injection, and the air injection pressure. The combustion method was used in a Kansas pilot project (now completed) started by Sinclair Oil and Gas Co. in 1956 and located in the Humboldt-Chanute field in Allen County.

NATURAL GAS

The shipping of natural gas through extensive pipeline systems across state lines and the authorization of new cross-country lines are under the jurisdiction of the Interstate Commerce Commission and the Federal Power Commission, respectively. Under the Natural Gas Act of 1938 interstate gas transportation takes on the aspect of a public utility. The apportionment of new lines and approval of transmission of gas are based on national considerations of the greatest good to the greatest number of people, as well as on economic investment values. Natural gas is generally considered to be "end-use" controlled. Thus Kansas, ranking fourth among the gas-producing states and third in reserves, yet having a relatively small population, has only a minor voice in the eventual use of the gas. Gas entering interstate systems is dedicated; little non-dedicated gas is available for intrastate use. The producers want to export excess gas for income, which returns to the State; the Kansas consumer, both domestic and industrial, desires retention of the natural resource within the State's borders, arguing that exportation of natural gas is depleting reserves. A significant portion of Kansas' annual gas production is being exported, but it is estimated that an amount equal to about 60 percent of the quantity produced is used within the state by over a million customers.

PRODUCTION AND VALUE

Natural gas production during 1962 totaled 725,303,140 thousand cubic feet, calculated at the base of 14.65 p.s.i.a., an increase of 6.8 percent over the preceding year. Since 1956, annual gas production has exceeded 500 billion cubic feet, and since 1943 it has been more than 100 billion cubic feet. The estimated value of natural gas increased to \$79,783,345 compared to \$74,385,906 in 1961, a 7.3 percent increase in

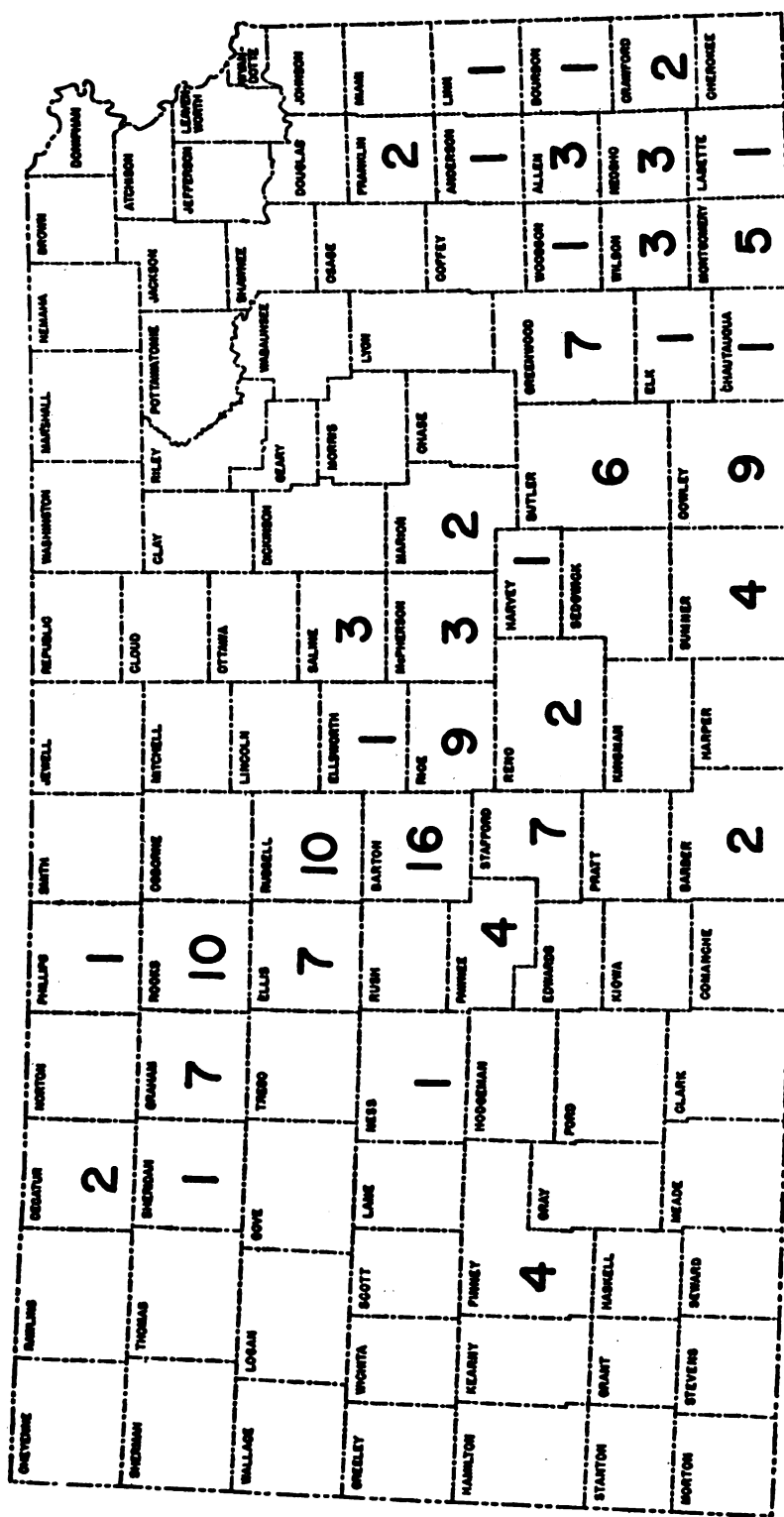


TABLE 13.—Repressuring applications approved in Kansas during 1962.

County	Name of company	Location
Allen	Ben Steiner	34-24-21E
do	C-W Oil Company	33-24-21E
do	Magellan Oil Company	33-24- 2E
Anderson	Roy W. Brecheisen	3-22-19E
Barber	Crescent Oil & Gas Corporation	25-32-14W
do	Oil Producing, Inc., et al.	27-30-15W
Barton	Alpine Oil & Royalty Company, Inc.	28-19-11W
do	American Petrofina Company of Texas	28-19-11W
do	Arrow Well Servicing Company, Inc.	29-16-12W
do	B. E. Ash, et al.	33-19-11W
do	Colorado Oil & Gas Corporation	29-16-11W
do	Cresecent Oil & Gas Corporation	35-19-12W
do	Elliot G. Bloch	9-16-13W
do	Monsanto Chemical Company	11-19-12W
do	Morris Sitrin, Inc.	26-17-11W
do	National Cooperative Refinery Association	31-16-11W
do	National Cooperative Refinery Association	24-16-12W
do	Pickrell Drilling Company	35-19-12W
do	Schermerhorn Oil Corporation	28-20-13W
do	Sohio Petroleum Company	36-18-11W
do	Tenneco Oil Company	22-16-12W
do	Texaco, Inc.	32-18-11W
Bourbon	Joey Drilling & Exploration Co., Inc.	8-24-22E
Butler	Cities Service Petroleum Company	33-25- 5E
do	Cities Service Petroleum Company	35-27- 4E
do	Dunn & Straight Drilling Company	2-27- 7E
do	E. H. Adair Oil Company	33-26- 6E
do	Morris Sitrin, Inc.	34-27- 5E
do	Shawver Armour, Inc.	21-27- 3E
Chautauqua	Lester W. Drenner, et al.	23-32-10E
Cowley	Gralapp & Everly	12-33- 4E
do	Hill & Hill	6-35- 3E
do	James A. Lewis, Engineering, Inc.	21-32- 6E
do	J. E. Newman	19-33- 3E
do	Mead Production Company	16-33- 3E
do	Midwest Oil Corporation	6-35- 3E
do	Slocum & Jarvis	1-33- 4E
do	Texaco, Inc.	30-31- 6E
do	Texaco, Inc.	21-31- 4E
Crawford	E. J. Dunigan, Jr.	3-28-23E
do	Wel-Kan Oil Company	2-28-23E
Decatur	Continental Oil Company	11- 5-27W
do	Halliburton Oil Producing Company	33- 3-28W
Elk	Janney Drilling Company	34-28-13E
Ellis	Aylward Drilling Company	23-15-18W
do	Colorado Oil & Gas Corporation	11-11-17W
do	Don E. Pratt	27-13-16W
do	E. K. Edmiston	36-12-18W
do	Lario Oil & Gas Company	8-11-17W
do	Okmar Oil Company	15-14-17W
do	Texaco, Inc.	35-12-18W

TABLE 13.—Repressuring applications approved in Kansas during 1962 (continued).

County	Name of company	Location
Ellsworth	Pandora Oil	19-17-10W
Finney	McKnab, V. W.	19-26-34W
do	Shallow Water Refining Company	34-21-34W
do	Shallow Water Refining Company	27-21-34W
do	Shallow Water Refining Company	22-21-34W
Franklin	C. H. Schwader	29-15-20E
do	Paw Cat Associated	29-15-20E
Graham	Barnett Oil Company	12- 8-24W
do	Burch Drilling Company	21- 9-23W
do	Cities Service Petroleum Company	21- 7-25W
do	Empire Drilling Company	1- 9-25W
do	Empire Drilling Company	16- 8-25W
do	Kimbark Exploration Company, et al.	12-10-23W
do	Texaco, Inc.	31- 8-24W
Greenwood	Brunson-Spines	23-24-12E
do	Goering-Hedrick-Robinson, et al.	16-28-11E
do	Herbert H. Hart	27-22-13E
do	Home-Stake Production Company	13-22-10E
do	Houston-Oklahoma Oil Company	14-24-12E
do	Marathon Oil Company	6-24-10E
do	Phillips Petroleum Company	12-24- 9E
Harvey	Aladdin Petroleum Company	19-22- 3W
Labette	Dodson Drilling Company	25-32-17E
Linn	E. Buddrus, et al.	23-19-22E
McPherson	Alfred D. Koehn	9-19- 2W
do	W. C. McBride, Inc.	13-19- 2W
do	Webb Resources, Inc.	14-20- 4W
Marion	J. E. Morris	17-22- 4E
do	Martin Bros., et al.	27-17- 4E
Montgomery	Jay Robertson	24-34-15E
do	Joseph H. Giesen & Irving Goodof	3-33-17E
do	Millneva Oil Company	34-34-14E
do	Pittman Drilling Company	30-31-16E
do	Producers Oil Company	13-32-14E
Neosho	Burk Royalty Company	19-30-18E*
do	Phillips Brothers	27-27-19E
Ness	High Plains Production Company	22-18-26W
Pawnee	Earl F. Wakefield	31-22-17W*
do	National Cooperative Refinery Association	30-23-15W
do	National Cooperative Refinery Association	18-20-19W
Phillips	Bankoff Oil Company	3- 5-20W
Reno	K & P Oil Company	17-24- 4W
do	Sunray Mid-Continent Oil Company	19-24- 4W
Rice	Beardmore Drilling Company	15-18- 9W
do	Continental Oil Company	12-18- 8W
do	Francis Oil & Gas, Inc., et al.	6-18-10W
do	Henderson Oil Company	5-19- 9W
do	Jay Bergman Oil Company	11-19- 9W
do	National Cooperative Refinery Association	20-20-10W
do	Plains Exploration Company	28-20- 6W
do	Plains Exploration Company	34-20- 6W

TABLE 13.—Repressuring applications approved in Kansas during 1962 (concluded).

County	Name of company	Location
do	Sinclair Oil & Gas Company	31-18- 7W
Rooks	Broadview Oil Company	2- 9-16W
do	Champlin Oil & Refining Company	35-10-17W
do	Cities Service Petroleum Company	21- 9-16W
do	Nadel & Gussman	28- 9-20W
do	Okmar Oil Company	9-10-20W
do	Petroleum, Inc.	33- 8-18W
do	Sterling Drilling Company	28-10-20W
do	Tenneco Oil Company	31-10-17W
do	Theodore Gore	21- 9-16W*
Russell	American Petrofina Company of Texas	17-14-13W
do	American Petrofina Company of Texas	11-14-14W
do	Continental Oil Company	27-14-13W
do	Duke Drilling Company	21-14-14W
do	Harold Krueger & Associates	28-12-15W
do	John O. Farmer, Inc.	27-14-13W
do	Lee Phillips Oil Company	34-14-13W
do	Leo J. Dreiling Oil Company	4-14-14W
do	Shields Oil Producers, Inc.	27-14-13W
do	Sunray D-X Oil Company	26-14-13W
Saline	E. H. Riggs	18-15- 2W
do	Mutual Oil Company	13-15- 3W
do	Solar Oil Company	6-15- 2W
Sheridan	Imperial Oil of Kansas, Inc.	7- 6-26W
Stafford	Colorado Oil & Gas Corporation	6-21-13W
do	L. K. Parrish	4-21-12W
do	National Cooperative Refinery Association	6-22-13W
do	Petroleum, Inc.	28-21-13W
do	Petroleum, Inc.	29-21-14W
do	Petroleum, Inc.	9-22-14W
do	Petroleum, Inc.	3-22-14W
Sumner	Alladin Petroleum Corporation	22-31- 1W
do	Continental Oil Company	27-34- 2E
do	Midwest Oil Corporation	1-35- 2E*
Wilson	Fred E. Wood & Associates	7-30-16E
do	J. & W. Production, Inc.	12-27-16E
do	Ray N. Plummer	24-27-16E
Woodson	Sempre Oil Company	11-24-16E

* Two applications approved for this location.

value due entirely to an increase in gas production. A minimum price of 11 cents per thousand cubic feet, measured at 14.65 p.s.i.a., has been applied to all Kansas gas production including minor amounts of unprorated production, much of which probably brought a higher price. In June of 1962, the Kansas Corporation Commission amended the price order for the **Hugoton Gas Area** providing for the scaling of prices according to the heating value. The minimum price of gas rated less than 750 British Thermal Units is now adjustable downward in direct

proportion to its B.T.U. rating. Upward adjustments in price for gas above 950 B.T.U. are also provided.

Natural gas was produced in 49 counties in 1962, with 17 counties producing 3 billion cubic feet or more (Table 14). Among the 17 counties, Stevens County maintained its lead, producing 151,275,228 thousand cubic feet. The gas production for 1961 and 1962 and ranks of these 17 counties are given in Table 14.

Twenty-two counties in Kansas now have a cumulative production of 20 billion cubic feet

TABLE 14.—Kansas counties producing 3 billion cubic feet or more of natural gas annually, 1961 and 1962.

County	Production M cu. ft. (14.65 psia)		Rank	
	1961	1962	1961	1962
Stevens	129,939,907	151,275,228	1	1
Grant	101,626,984	114,575,958	2	2
Morton	83,702,648	80,572,119	3	3
Kearny	69,582,324	68,623,006	4	4
Finney	53,172,005	59,196,495	5	5
Seward	30,146,771	41,340,521	8	6
Haskell	39,822,241	39,362,303	7	7
Barber	49,037,264	38,546,907	6	8
Kingman	21,949,770	26,718,560	10	9
Stanton	23,776,419	21,613,035	9	10
Kiowa	9,698,782	10,562,789	12	11
Meade	16,296,726	10,557,487	11	12
Clark	7,997,403	10,231,379	13	13
Marion	3,398,306	7,645,918	16	14
Comanche	3,274,167	5,962,421	17	15
Harper	4,776,666	5,474,531	14	16
Edwards	.....	3,032,807	....	17

or more of natural gas as of the end of 1962. Although complete production records for most eastern counties are either not available or non-existent, it is certain that Allen, Cowley, Montgomery, and Wilson have each produced 10 billion cubic feet or more of gas. The amounts of cumulative gas production ranks for 1961 and 1962 are given in Table 15.

TABLE 15.—Counties in Kansas having cumulative production of 20 billion cubic feet or more of gas to end of 1962. (Based on recorded and estimated production.)

County	Cumulative production M cu. ft. (14.65 psia)		Rank	
	1961	1962	1961	1962
Stevens	2,030,296,017	2,181,571,245	1	1
Grant	1,214,317,728	1,327,659,486	2	2
Kearny	865,573,606	934,108,186	3	3
Morton	770,409,665	850,981,784	4	4
Barber	554,337,565	592,884,472	5	5
Finney	484,213,403	543,409,898	6	6
Haskell	442,768,886	482,131,189	7	7
Seward	356,823,152	398,163,673	8	8
Stanton	216,784,657	238,397,692	9	9
Kingman	91,707,820	118,426,380	10	10
Meade	82,153,559	98,711,046	11	11
Pawnee	45,824,158	48,168,359	12	12
Hamilton	43,906,104	45,149,161	13	13
Clark	34,582,369	44,813,748	15	14
Rice	36,334,493	36,648,396	14	15
Kiowa	23,524,035	34,086,824	19	16
Harper	23,624,666	29,099,197	18	17
Pratt	25,036,968	27,927,105	17	18
Barton	25,883,943	26,915,735	16	19
Reno	18,578,721	21,665,213	....	20
Edwards	18,187,489	21,220,296	....	21
Stafford	17,293,060	20,816,236	....	22

Cumulative gas production for the state exceeds 9.93 trillion cubic feet. The Permian gas production (mostly from the Hugoton Gas Area) represents about 61 percent of the total. Other important gas zones are the Pennsylvanian, which accounts for 32 percent, and the Mississippian and Cambro-Ordovician, which together account for about 7 percent of the cumulative gas production.

In the gas production table (Table 35), 1962 production by field and cumulative figures by counties for the entire state are calculated at the same pressure base, 14.65 p.s.i.a. Production in the eastern Kansas fields, which reached their peak nearly 60 years ago, was less than 1 percent, whereas production from the Hugoton Gas Area in southwestern Kansas was about 71 percent of the state total for 1962.

The 1962 consumption of marketed natural gas in Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota is reported as a unit quarterly by the U. S. Bureau of Mines. Therefore, a detailed breakdown of use within Kansas during 1962 is unavailable at this time. During 1961, the U. S. Bureau of Mines reported that 84,339,000 thousand cubic feet, valued at an average of 61.3 cents per thousand, were consumed in residential use by 532,000 customers. A total of 21,767,000 thousand cubic feet, valued at an average of 41.6 cents per thousand, was consumed commercially by 50,000 customers. Industrial consumption was 258,851,000 thousand cubic feet, valued at an average of 21.0 cents per thousand cubic feet.

Monthly gas proration schedules were issued for 35 fields during 1962. These are the Aetna Gas Area, Medicine Lodge-Boggs ("Bartholow," "Boggs"), Boggs Southwest ("Driftwood"), Crystal Springs, Elsea, Elwood, Glick, Greenwood Gas Area, Hardtner, Snake Creek ("Harper Ranch"), Harper Ranch ("Harper Ranch North"), Hopewell ("Hopewell South"), Hugoton Gas Area, ILS, Iuka-Carmi, Lost Springs ("Antelope East"), McGuire-Goemann, McKinney, Mohler Northeast, Nich, Nichols, Palmer, Panoma Gas Area, Rhodes ("Rhodes North"), Rhodes Northeast, Rhodes South, Richfield, Sharon Northwest, Sitka, Sitka Northeast, Sparks, Sperling, Spivey-Grabs-Basil, Taloga ("Keyes," Taloga "C," and Taloga "G") and Wil. Unprorated gas fields in Kansas are limited by statute to 25 percent of the open-flow capacity. Those fields having a common source of supply of gas in which the average open flow

of all the producing wells does not exceed 750,000 cubic feet per day are exempted from proration. Purchasing companies are required each month to file a record of the amount of gas purchased from wells in Kansas. Gas deliverability tests are made annually. In order to provide income for regulatory purposes during 1962, gas was assessed at 0.00025 cents per thousand cubic feet.

NEW DEVELOPMENTS

During 1962, 15 gas fields (14 gas and 1 oil and gas) were named in Kansas (Table 28). Of the new fields, 5 produce from Mississippian rocks and 4 from Morrowan rocks. In Seward County, the discovery well of the **Liberal East** field was credited with gas production from the Chesteran (Mississippian) and Morrowan (Pennsylvanian) rocks.

Eleven new gas zones were discovered in old fields during 1962. Complete data on the discovery wells of these zones are given in Table 33.

HUGOTON GAS AREA

The **Hugoton Gas Area**, including its extension across the Oklahoma "strip" and into the Texas Panhandle, is regarded as one of the world's largest known gas reserves. As of the beginning of 1962 the estimated reserves in the entire field were 35.5 trillion cubic feet. Production by year since 1947 from the Kansas portion of the field is shown in Table 16. Production during 1962, more than 518 billion cubic feet, amounted to 71 percent of the total Kansas gas production, an increase of 2.0 percent compared to the previous year.

The Defenders and Traders Gas Company gas well in sec. 3, T. 35 S., R. 34 W., Seward County, drilled in 1922, is recognized as the discovery well of the **Hugoton Gas Area**. Rapid development of the huge gas reservoir in southwestern Kansas came in the early 1940's. By the end of 1949, the number of producing wells passed the 2,000 mark, and the area encompassed 2 million acres. By the end of 1962, there were 3,960 producing gas wells, and the Kansas part of the **Hugoton** field included about 2,598,000 acres. It is about 60 miles wide and 85 miles long (north-south), taking in two entire counties (Stevens and Grant) and parts of 7 others (Finney, Hamilton, Haskell, Kearny, Morton, Seward, and Stanton). Seventeen wells

TABLE 16.—Production from Kansas part of Hugoton Gas Area, 1947-1962.

Year	M cu. ft. gas (14.65 psia)
1947	157,663,036
1948	185,872,594
1949	247,868,876
1950	320,545,480
1951	371,002,475
1952	375,081,748
1953	387,635,243
1954	346,732,192
1955	394,257,153
1956	381,874,779
1957	396,889,199
1958	349,263,723
1959	404,764,021
1960	451,820,153
1961	467,842,078
1962	518,069,603

were completed during 1962, compared with 50 in the previous year.

With the assistance of Ray Dietz, Gas Proration Analyst, of the Conservation Division of the State Corporation Commission, and Dwight's Oil and Gas Reports, county gas production figures and county cumulative totals for the **Hugoton Gas Area** have been prepared for this report. These data are given in Table 17. Stevens and Grant Counties each produced more than 100 billion cubic feet of gas during 1962. Cumulative production from these two counties accounts for more than half of all the gas produced from the field in Kansas.

The **Hugoton Gas Area**, as defined by the Nomenclature Committee of the Kansas Geological Society, is limited to wells producing gas

TABLE 17.—County annual and cumulative production, Hugoton Gas Area.*

County	Cumulative production to end of 1961, M cu. ft.	1962 production M cu. ft.	Cumulative production to end of 1962, M cu. ft.
Finney	484,067,328	59,196,495	543,263,823
Grant	1,214,317,728	113,341,758	1,327,659,486
Hamilton	43,906,104	1,243,057	45,149,161
Haskell	437,785,902	36,499,093	474,284,995
Kearny	865,573,606	68,534,580	934,108,186
Morton	378,990,123	33,687,969	412,678,092
Seward	293,199,490	37,113,386	330,312,876
Stanton	192,400,857	19,292,159	211,693,016
Stevens	2,023,902,535	149,161,106	2,173,063,641
Totals	5,934,143,673	518,069,603	6,452,213,276

* Base 14.65 psia.

from the Chase Group of the Permian System. Pay zones are in the Fort Riley, Towanda, Winfield, Krider, and Herington Limestones. Distribution of porosity seems to control productivity and porosity in these zones ranges from 13 to 18 percent; the permeability is low and irregular. Plate 1 shows the approximate boundary of the area as outlined at the end of 1962.

Wells having an initial potential of less than 1 million cubic feet per day after acidization and treatment are regarded as small, and those producing more than 30 million cubic feet of gas per day are big. The average depth of the top of the producing formations is about 2,500 feet. The field has a water-drive, and shut-in pressure from selected wells averages 350 pounds per square inch.

Because the **Hugoton Gas Area** is prorated, only one well may ordinarily 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. Because of wide well-spacing, there is little surface evidence of this huge gas reservoir.

Gas from the **Hugoton Gas Area** is of fairly good quality (Table 18), having a heating value ranging from less than 750 to more than 1,000 B.T.U. per cubic foot, and it yields about 0.5 gallon of natural gasoline condensate per thousand cubic feet. There are several natural gasoline plants in the area, as well as two carbon black plants. Two helium extraction plants are under construction there.

TABLE 18.—Average natural gas analysis from Hugoton Gas Area.

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

(From Keplinger, Wanenmacher, and Burns, 1948.)

HELIUM

Although the element helium had been identified previously as a component in air, its first discovery as a component of natural gas was by H. P. Cady and D. F. McFarland of The University of Kansas (Cady and McFarland, 1908).

The completely inert gas was described from analyses of natural gas from the discovery well of the **Dexter Gas Field** in Cowley County. Helium was extracted for use in lighter-than-air craft during World War I from a now abandoned plant near the town of Dexter.

The most widely supported theory for the origin of helium is that it is radiogenic, i.e., produced by radioactive disintegration of certain heavy elements. Helium is a colorless, odorless, tasteless, non-flammable gas, which liquefies at -452° F, an extremely low temperature. Because helium is an inert gas, it does not combine chemically with anything else. It is the only substance known that remains in a gaseous state below -423° F. When liquid helium is cooled to within 4° F of absolute zero, it assumes a unique physical state. Helium under these conditions is a super-fluid, almost devoid of viscosity and capable of flowing through the tiniest opening; in this state, it is also a super-conductor of heat and electricity.

Helium is important to our defense program. The usefulness of helium is due to its unique properties. It is used in our space (missiles), atomic energy, aerology, and aeronautical research programs. Helium-shielded arc-welding is the best method of welding aluminum. Silicon crystal growth for transistors is done in a helium atmosphere. Helium is used as a medical aid in respiratory cases. It is used to detect minute leaks in pressure systems, such as vessels used in nuclear-energy investigations. About 90 percent of the production is used in connection with federal government research contracts.

Helium occurs in minute quantities in many Kansas gas fields, but the greatest recoverable quantity of helium thus far known in the world is contained in the natural gas in the **Hugoton Gas Area**, which extends from Kansas across the Oklahoma Panhandle into Texas. The helium content of the field averages only about 0.46 percent but because of the high withdrawal rate and the transport of the fuel to markets (25 years calculated depletion time), much potentially recoverable helium has been wasted. In the past, only about 15 percent of the extractable helium was recovered. This fact, coupled with a tenfold increase in consumption compared with consumption a decade ago, led to the development (in 1961) of an intense, government-supported helium conservation program.

Natural gas containing helium in concentrations of 1.0 percent or more is found in parts

of Kansas other than the **Hugoton Gas Area** but the fields are generally not large, are scattered, and the helium content varies greatly from well to well. Helium-bearing gases are reported in several U.S. Bureau of Mines natural gas surveys. Natural gas from the **Greenwood Gas Area** in southwestern Kansas averages about 0.6 percent helium.

The federally operated Otis helium extraction plant in central Kansas has recovered helium for many years from gas gathered from fields with relatively small reserves in Barton, Rush, and Pawnee Counties. These fields include the **Otis-Albert** in Rush and Barton Counties, and **Ryan** in Rush and Pawnee Counties, **Pawnee Rock** in Pawnee County, **Reichel** in Rush County, and **Behrens** and **Unruh** in Barton County. The limited supply of helium for the Otis plant results in operation at less than 50 percent of capacity. Prospects for additional resources of helium to supply this plant are not promising.

Price and production of helium are controlled by the federal government. Helium production in Kansas reported by the U.S. Bureau of Mines (all from the Otis plant in 1962) increased from 23,049,600 cubic feet in 1961 to 40,749,000 cubic feet in 1962. Shipments of helium to federal agencies in 1962 were 20,513,200 cubic feet; other shipments amounted to 21,792,000 cubic feet; total shipments were

42,305,600 cubic feet. Revenue from helium shipments during 1962 amounts to \$1,478,467, reflecting a considerable increase in price. Helium production and value in Kansas, 1937-1962, are given in Table 19.

Recoverable helium from our nations areas of primary resources amounts to more than 130 billion cubic feet (Oil and Gas Journal, Feb. 5, 1962). The reserves of helium-bearing gas is relatively large, but at the present rate of use, about 4 billion cubic feet of helium is lost annually as natural gas is consumed as a fuel. Consequently, our resources of helium are being depleted at a rate about 10 times greater than the present annual heating consumption of natural gas. The helium reserves in the U.S. are contained principally in four helium-bearing natural gas fields; the **Hugoton Gas Area** of Kansas, Oklahoma, and Texas, the **Panhandle** field of Texas, the **Keyes** field of Oklahoma, and the **Greenwood Gas Area** of Kansas (Oil and Gas Journal, Feb. 5, 1962).

The intensified helium conservation program, authorized by Congress in 1961, brought to Kansas three new helium extraction plants (Fig. 10). Construction on these plants was started in 1962. The new plants, built by private industry, have assured government helium production contracts extending for 22 years. A total of 12 plants are scheduled for the nation and the ultimate storage of 50 billion cubic feet of helium is anticipated by 1984.

TABLE 19.—Helium and carbon black production and value in Kansas, 1937-1962.

Year	Helium			Carbon Black	
	Production cu. ft.	Shipments cu. ft.	Value of shipments dollars	Production lbs.	Value dollars
1937-1948				415,000,000	17,620,000
1949				78,833,470	3,515,827
1950				82,508,506	3,992,268
1951	26,280,000	26,280,000	327,000	112,205,669	5,334,126
1952	38,509,000	38,509,000	491,000	82,000,000	3,900,000
1953	42,782,800	42,782,800	563,923	69,985,475	3,207,600
1954	37,530,000	37,530,000	593,162	54,328,515	3,014,316
1955	42,749,600	42,749,600	662,619	97,496,155	5,553,883
1956	45,035,200	45,035,200	698,000	105,680,834	6,590,663
1957	37,249,000	36,743,000	569,517	76,419,500	5,131,569
1958	25,858,000	27,888,000	432,264	75,443,750	5,261,142
1959	24,004,300	21,642,500	342,619	91,644,160	6,387,598
1960	21,930,600	21,696,300	349,750	87,302,185	5,621,236
1961	23,049,600	23,250,900	433,682	89,936,075	6,243,192
1962	40,749,100	42,305,600	1,478,467	102,282,466	7,118,849
Totals	405,727,200	406,412,900	6,942,003	1,621,066,760	88,492,269

The first purchase contract was awarded to Northern Helix Company a subsidiary of Northern Natural Gas Company. The plant, located at Bushton in Ellsworth County, has a capacity of 700 million cubic feet of helium per year. The assured market contract with the federal government is for \$11.24 per thousand cubic feet, to a maximum of \$9.5 million dollars annually. The plant was dedicated in the fall of 1962 and went on stream in January of 1963. The plant, located in central Kansas a considerable distance from the areas of large reserves, will process natural gas from a nearby multiple large diameter interstate pipeline complex which crosses Kansas from southwest to northeast. The second contract was awarded in August of 1961 to Cities Service Helix, Inc. for a plant at Ulysses in Grant County. The federal government agreed to purchase a maximum of \$9.1 million dollars worth of helium per year at \$11.78 per thousand cubic feet. When completed in February of 1963, the plant will process 600 million cubic feet of helium per year. The National Helium Corporation (Panhandle Eastern Pipeline Company and National Distilleries and Chemical Corporation) plant under construction during 1962 is the world's largest helium extraction plant. Located at Liberal in Seward County, it has a capacity exceeding one billion cubic feet of helium a year. The govern-

ment contract assures payments of \$11.78 per thousand cubic feet for a maximum up to \$15.2 million dollars annually. Completion of the plant is scheduled for April of 1963.

Over the next 22 years, these three government supported plants will sell to the government a total of \$743.6 million dollars worth of helium.

GAS PIPELINING

The Cities Service Gas Company replaced their 16-inch line from Ottawa to Lawrence, Kansas, with 20.5 miles of 26-inch pipe. They had approval for 7.6 miles of 16-inch pipe in the vicinity of Tecumseh during 1962, and early in 1963, approval was granted to Cities Service Gas Company for 15.5 miles of 20-inch looping line, parallel to the existing line which extends east from Ottawa, Kansas, to Sedalia, Missouri. Late in 1962 Cities Service Gas Company was constructing 5 miles of 20-inch loop line in the vicinity of Paola. Northern Natural Gas Company had under construction during 1962 in southwestern Kansas, 79 miles of 4½-inch, 31 miles of 6¾-inch, and three miles of 12¾-inch carrying lines. Michigan-Wisconsin Pipeline Company's project of 62 miles of 20-inch and 35 miles of 16-inch line from Woodward, Okla-

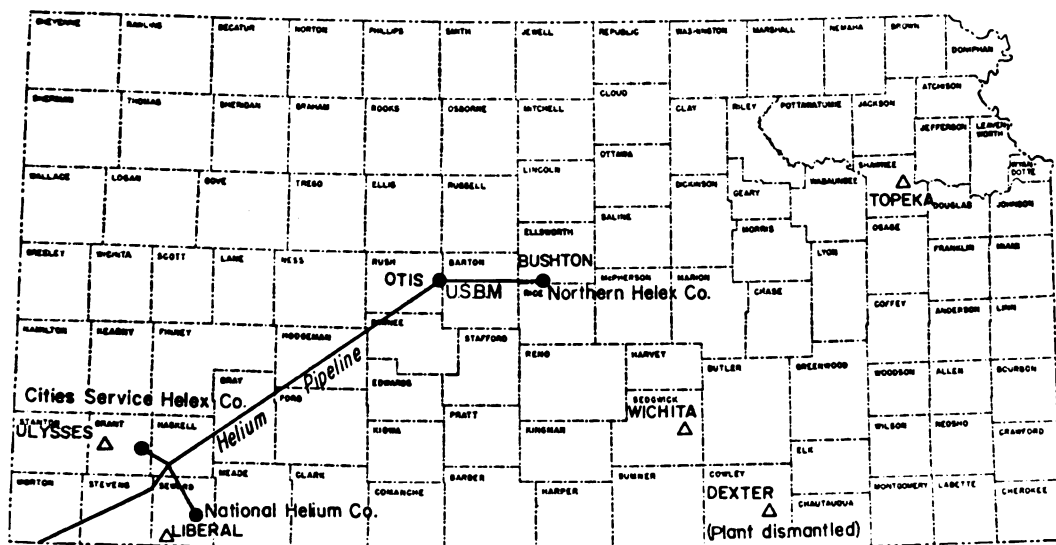


FIGURE 10. Helium plants and pipelines.

homa, to Station Number 2 in Greensburg, Kansas, was underway late in 1962. Kansas-Nebraska Natural Gas Company's project of 12.7 miles of 12-inch line from Deerfield to Scott City, 10.8 miles of 12-inch line from Scott City to Colby, 14.3 miles of 12-inch line from Colby to Herndon, and 15.5 miles of 12-inch line from Phillipsburg to Franklin, Nebraska, was completed late in 1962. Pending before the Federal Power Commission late in 1962 was Kansas-Nebraska Natural Gas Company's application for replacement of 7.5 miles of 8-inch gas line with a 12-inch line in the vicinity of Oakley, and the replacement of 23.2 miles of 8-inch line to Danbury, Nebraska, with new 12-inch pipe. Completion of 17.3 miles of 12 $\frac{3}{4}$ -inch looping line from Seward to Great Bend by the Kansas Power and Light Company was announced during 1962. Construction by Panhandle Eastern Pipeline Company during 1962 included 160 miles of 30-inch loop pipe to its interstate gas distribution system in Kansas, which gave the company the equivalent of a fourth big pipeline from Liberal, Kansas, to Detroit, Michigan. Horsepower was added to Panhandle Eastern's compressor stations at Haven, Olpe, and Louisburg. Late in 1962 Natural Gas Pipeline Company of America awaited approval from the Federal Power Commission for construction of

16 miles of 30-inch loop line parallel to existing 24- and 26-inch lines across Lincoln County.

Because the demand for natural gas is seasonal, storage of gas during the slack season has been developed. Table 20 gives the locations and capacities of various Kansas storage projects. No appreciable increase in storage capacity was developed in 1962 in Kansas.

Early in 1962, invitations were issued by the U.S. Department of the Interior for construction of 430 miles of 4- to 10-inch helium pipeline from Bushton, Kansas, to Amarillo, Texas. The line will handle helium from the various Kansas plants, with pressures up to 1,800 p.s.i. and the gas will be injected in the Cliffside storage reservoir at Amarillo at approximately 1,000 p.s.i. The location of this line is shown in Figure 10.

NATURAL GAS LIQUIDS

PRODUCTION AND VALUE

Kansas production of natural gas liquids during 1962 from 15 natural gasoline plants was 300.7 million gallons, 42.4 million gallons more than during 1961. The value of natural gas liquids (natural gasoline, propane, butane, and other liquified petroleum gases) produced dur-

TABLE 20.—Underground gas storage.

Company (field or area—County)	Capacity, M cu. ft.			Zone
	Working gas	Cushion gas	Total reservoir	
Arkansas Louisiana Gas Corp.				
Collinson—Cowley	674,300	425,700	1,100,000	
Cities Service Gas Co.				
Alden—Rice	5,000,000	9,773,600	14,773,600	"Misener"
Boyer—Butler	392,300	627,600	1,019,900	Wabaunsee
Colony—Anderson	4,148,100	5,055,600	9,203,700	"Colony"
Craig—Johnson	1,557,900	4,517,900	6,075,800	"Bush City"
Elk City—Montgomery and Elk	10,000,000	10,000,000	20,000,000	"Burgess"
McLouth—Jefferson and Leavenworth	5,212,300	7,701,400	12,913,700	"Bartlesville"
Piqua—Allen and Woodson	1,551,100	1,679,400	3,230,500	"Colony"
Welda North—Anderson	4,521,600	5,500,000	10,021,600	"Colony"
Welda South—Anderson	5,313,600	6,475,600	11,789,200	"Colony"
Union Gas System, Inc.				
Buffalo—Wilson	2,851,400	3,959,200	8,250,000	Iola
Fredonia—Wilson				"Layton"
"Liberty North"—Montgomery				"Squirrel"
"Liberty South"—Montgomery				"Squirrel"
Longton—Chautauqua				"Layton"
Total	41,222,600	55,716,000	98,378,000	

(Bisal, May 13, 1963.)

ing 1962 was \$14,318,288. The 14.9 percent increase in production and 5.1 percent increase in value represents an increase in production, and an adjustment in price, respectively.

The average daily production of natural gasoline and LPG in 1962 from all Kansas plants was 19,614 barrels, compared to 16,850 for the previous year (Table 21). Pan American Petroleum Company placed in operation its new gas processing plant at the Kinsler field (Morton Co.) and first production was in 1962. The output of natural gas liquids during 1962 and estimated value at the plant are shown in Table 22. The estimated value averaged \$2.00 per barrel, as compared with \$2.21 per barrel during the previous year. Production from Kansas plants for the last 12 years is shown in Table 23; plant capacity is given in Table 24.

The need for low-cost temporary storage is one of the major problems facing the expanding LPG industry. This problem, created by the

seasonal nature of the demand for the product, has been partly solved in the last few years by injecting natural gas liquids into wholly or partly depleted reservoirs, which may have contained salt water, gas or distillate. Recently, and especially in Kansas, natural gas liquids have been stored in artificially-formed underground cavities in salt beds. Locations and capacities of these storage projects are given in Table 25.

NATURAL GAS LIQUIDS PIPELINING

Great Lake Pipeline Company diverted their present 6-inch products lines from Des Moines to Minneapolis and to the Chicago area to tie in with Northern Gas Products line from Kansas. In December of 1962 the Federal Power Commission gave approval to Northern Gas Products for connection of their Bushton LPG plant and 8-inch line with Great Lakes' pipeline at Des Moines. Cities Service Petroleum Company an-

TABLE 21.—Natural gasoline and LPG processed in 1962.*

Operator and plant location	Natural gasoline	Butane	Propane	LPG	Total
Cities Service Petroleum Company					
Wichita, Sedgwick County	292,605	437,809	327,389		1,057,803
Colorado Interstate Gas Company					
Lakin, Kearny County	111,023				111,023
Kansas Hydrocarbon Company					
Cheney, Sedgwick County	75,809	23,119	53,512		152,440
Hugoton Production Company					
Ulysses, Grant County	139,363	163,008	171,936		474,307
Kansas-Nebraska Nat'l Gas Company					
Deerfield, Kearny County	83,810		26,081	57,355	167,246
Northern Natural Gas Company					
Holcomb, Finney County	143,484				143,484
Sublette, Haskell County	438,695				438,695
Pan American Pet. Corp.					
Ulysses, Grant County	578,546	679,660	451,473	91,185	1,800,864
Kinsler, Morton County				55,935	55,935
Panhandle Eastern Pipe Line Company					
Liberal, Seward County	483,053	227,611	136,455		847,119
Rounds & Stewart Natural Gasoline Company, Inc.					
Marion, Marion County	158,402	166,641	235,491		560,534
Skelly Oil Company					
Medicine Lodge, Barber County	81,905		78,704		160,609
Minneola, Ford County	75,370		54,861		130,231
Socony Mobil Oil Company, Inc.					
Ulysses, Grant County	256,878	76,876	118,284		452,038
Spivey, Kingman County	261,416	133,097	212,303		606,816
Total	3,180,359	1,907,821	1,866,489	204,475	7,159,144
Daily average for year 1962	19,614 Barrels				
Daily average for year 1961	16,850 Barrels				

(From the Conservation Division, Kansas Corporation Commission.)

* 42-gallon barrels.

TABLE 22.—Production and estimated value of natural gas liquids in Kansas, 1962.

	Gallons	Barrels*	Aver. price per bbl.	Value
Natural gasoline	133,575,078	3,180,359		
Propane	78,392,538	1,866,489		
Butane	80,128,482	1,907,821		
LPG	8,587,950	204,475		
Total	300,684,048	7,159,144	\$2.00	\$14,318,288

(Production figures supplied by State Corporation Commission.)

* 42-gallon barrel.

TABLE 23.—Kansas production of natural gasoline and allied products, 1951-1962.

Year	Production, thousand gal.
1951	182,932
1952	196,462
1953	211,657
1954	193,783
1955	206,621
1956	199,384
1957	223,618
1958	225,176
1959	232,847
1960	250,789
1961	258,304
1962	300,684

nounced plans late in 1962 for construction of 180 miles of 8 $\frac{1}{2}$ -inch pipeline to move natural gas liquids from Ulysses to Hutchinson. They anticipate doubling their underground storage capacity in the vicinity of Hutchinson. The Kanab Pipeline Company opened a petroleum products terminal near Concordia. Pan American Petroleum Corporation completed an extraction plant having a capacity of 20,000 thousand cubic feet per day east of the Kinsler field.

CARBON BLACK

Production of carbon black during 1962 was reported as 102,282,466 pounds, valued at \$7,118,849. This represents an increase in production of 12,346,391 pounds and in value of \$875,658 from that of the previous year (Table 26). Carbon black was produced by the Columbian Carbon Company at Hickok and by the United Carbon Company at Ryus in Grant County, both plants using the furnace process. The United Carbon plant was dismantled near the end of 1962.

The Conservation Division of the State Corporation Commission reports that use of

natural gas in the manufacture of carbon black in Kansas was 3,564,057 thousand cubic feet, a decrease of 81,061 thousand cubic feet from 1961.

The use of natural gas liquids with natural gas in the production of carbon black increased from 361,005 barrels in 1961 to 422,401 barrels in 1962.

RESERVES AND PRODUCING CAPACITY

The reserves concept within the petroleum industry is a highly involved one fraught with conflicting views about its defining factors and the statistical ways in which these factors are used. Professional groups, industrial organizations, and federal agencies all have conflicting ideas in this regard. As used by the Kansas Geological Survey, reserves are those quantities of crude oil, both liquid and gaseous, which are known to exist and which could be produced by presently available recovery methods.

The American Gas Association and the American Petroleum Institute have published for many years annual reserve estimates of crude oil and natural gas and natural gas liquids for each of the producing states in the United States. Their figures serve as a basis for a reasonably accurate history of past development and production in the United States. They involve no speculation with respect to future discoveries or technology. The estimates refer solely to blocked-out reserves which could be recovered under existing economic operating conditions.

Extensions of existing fields by developmental drilling each year has lead to revision of the previous estimates for older fields. Because the full potential or ultimate production from fields are not known until they are fully developed, earlier estimates are generally revised upward on a field basis. From a knowledge of the history of individual oil wells, it may be

TABLE 24.—Natural gasoline plant survey.

Location (county and nearest town)	Capacity million cu. ft. per day	Throughput, million cu. ft. per day	Products (gallons per day)					Debutanized natural gasoline
			Propane	Isobutane	Normal butane	LPG mix	Natural gasoline	
Anadarko Production Co.^a								
Morton County (Elkhart)	6.0	6.0	.....	.....	.....	.....	8,690	.....
Cities Service Helex, Inc.								
Grant County (Ulysses)	507.0*	.....	(Helium plant)					.....
Cities Service Oil Co.								
Reno County (Hutchinson)* .....	.....	.....	.....	.....	.....	.....	.....	.....
Cities Service Oil Co.								
Sedgwick County (Wichita) (transmission line)	125.0	115.3	38,500	13,900	34,500	.....	.....	37,700
Colorado Interstate Gas Co.								
Kearny County (Lakin)	215.0	92.0	.....	.....	.....	.....	12,835	.....
Hugoton Production Co.								
Grant County (Ulysses)	90.0	63.0	16,795	17,210	.....	.....	14,870	.....
Kansas-Nebraska Natural Gas Co., Inc.								
Kearny County (Deerfield)	125.0	79.0	3,270	.....	.....	1,990	.....	14,320
Mobil Oil Co.								
Hickock Plant								
Stevens County (Ulysses)	134.0	100.0	12,000	.....	8,000	.....	.....	27,000
Spivey Plant								
Harper County (Attica)	70.0	55.0	23,000	.....	12,000	.....	.....	29,000
National Helium Corp.								
Seward County (Liberal)	850.0*	.....	60,000 (Helium plant)	.....	120,000	.....	130,000	.....
Northern Gas Products Co.^b								
Rice County (Bushton)	900.0*	.....	.....	.....	.....	.....	.....	.....
Northern Helex Co.^b								
Rice County (Bushton)	500.0*	.....	(Helium plant)					.....
Northern Natural Gas Co.								
Finney County (Holcomb)	185.0	159.0	.....	.....	.....	.....	12,400	.....
Sublette Plant								
Seward County (Sublette)	325.0	206.0	.....	.....	.....	.....	39,300	.....
Pan American Petroleum Corp.								
Grant County (Ulysses)	325.0	220.0	48,500	18,000	54,000	13,600	.....	61,500
Kinsler Plant								
Grant County (Kinsler)	20.0	16.0	.....	.....	.....	.....	18,000	.....
Panhandle Eastern Pipeline Co.								
Seward County (Liberal)	240.0	240.0	.....	.....	.....	.....	98,000	.....
Rounds & Stewart Natural Gasoline Co., Inc., Marion County (Marion)	30.0	26.0	36,400	7,000	14,700	.....	22,200	.....
Skelly Oil Co.								
Barber County (Medicine Lodge)	60.0	No report	9,000	.....	.....	.....	10,000	.....
Minneola Plant								
Ford County (Dodge City)	25.0	No report	7,000	.....	.....	.....	8,000	.....
U.S. Bureau of Mines								
Otis Plant, Rush County	(One of five government helium plants in U.S.A.)							
Total	4,732.0	1,377.3	254,465	.....	.....	15,590	374,295	169,520

(From Robert B. Bizal, Oil and Gas Journal, March 25, 1963.)

* Under construction.

^a Subsidiary of Panhandle Eastern Pipeline Co.^b Subsidiary of Northern Natural Gas Co.

TABLE 25.—Underground LPG storage.

Company, county, and type	Capacity, bbl.	Product
Cities Service Petroleum Co.		
Reno—Salt layer (4 caverns)	331,000	Butane
Reno—Salt layer (10 caverns)	734,000	Propane
*Reno—Salt layer (under way)	260,000	Butane
*Reno—Salt layer (under way)	130,000	B-P mix
*Reno—Salt layer (planned)	(650,000)	Propane
Mid-America Pipeline Co.		
McPherson—Salt layer (3 caverns)	210,000	Propane
*McPherson—Salt layer (5 new caverns)	250,000	Propane
*McPherson—Salt layer (new)	50,000	Isobutane
*McPherson—Salt layer (new)	50,000	Butane
National Cooperative Refinery Assoc.		
McPherson—Salt layer (7 caverns)	350,000	Butane
McPherson—Salt layer (23 caverns)	1,150,000	Propane
Northern Gas Products Co. (subsidiary of Northern Natural Gas Co.)		
*Ellsworth—Salt formation (new)	2,000,000	Propane, butane
Pan American Petroleum Corp.		
Grant—Salt layer (8 caverns)	209,000	LPG
Phillips Petroleum Co.		
Kingman—Salt layer (6 caverns)	417,000	Propane, butane
Security Underground Storage Co.		
McPherson—Salt bed	1,350,000	Propane
*McPherson—Salt bed (new)	300,000	Propane
*McPherson—Salt bed (planned)	(500,000)	Propane
Sinclair Oil & Gas Co.		
*Reno—Salt layer (5 caverns, including 2 new ones)	313,000	Propane
Skelly Oil Co.		
McPherson—Salt layer	790,000	Propane
Tuloma Gas Products Co.		
Reno—Salt bed (2 caverns)	550,000	Propane, butane

(Bisal, October 29, 1962.)

* Projects completed, underway, or planned recently.

TABLE 26.—Quantity and value of carbon black produced in Kansas in 1961 and 1962 (including fuel used in production).

Year	Carbon black produced		Estimated fuel consumed	
	Quantity, lb.	Value	Gas, billion cu. ft.	Natural gasoline, million bbl.
1961	89,936,075	\$6,243,191	3.65	0.36
1962	102,282,466	\$7,118,849	3.56	0.42

(State Corporation Commission.)

concluded that, if there were no further drilling in Kansas, and if all the oil wells were operated at the producing capacity (the maximum rate of production possible under existing production practices), the total rate of production, after sharp initial increase to capacity rate, would begin to decline. It is evident that additional oil may be recovered from existing fields in future years. This additional oil will come not only from extensions of existing fields by future drilling, but also by revision of recovery estimates as more reservoir information is obtained, and by increased recovery by application

of new techniques. The rate of discovery of new fields and the rate of increase in estimated additions to reserves of existing fields are not simple functions of time but are related to the intensity of the effort expended in both exploratory and developmental drilling, and technological developments resulting in improved recovery methods. The intensity of these activities depends in turn on the need as reflected in market demand and on financial incentives. In spite of a trend toward a reduced rate of exploratory and developmental drilling in Kansas, it is estimated that there has been a net gain of productive capacity of crude oil relative to production.

It must be pointed out that productive capacity is not the same as availability. Presently available facilities limit the use of natural gas which could be produced. In present practice, storage of gas has been restricted to limited quantities in natural underground reservoirs near the market in order to compensate for annual fluctuations in the market. The total amount of production of natural gas possible is

TABLE 27.—Kansas proved reserves of natural gas and natural gas liquids, December 31, 1962.

	Reserves* as of 12-31-61	Extensions and revisions, 1962	Discoveries, 1962	Production during 1962	Proved reserves, 12-31-62	Net change in underground storage	Difference in reserves, 1961-62	Percentage change, 1961-62
Natural gas liquids	183,579	2,778	213	7,474	179,096	.....	—4,483	—2.4
Natural gas	19,190,005	177,939	32,017	739,983	18,668,561	8,583	—521,444	—2.7

(From the American Petroleum Institute and American Gas Association, 1962.)

* 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.

linked with the maximum rate of oil production because gas often occurs with oil.

Because natural gas liquids are not produced as such from underground reservoirs, but become available slowly by separation from natural gas, availability depends directly on the rate of production of natural gas and oil and requires existence of adequate handling facilities.

A factor which must be considered when evaluating reserve statistics is the reliability of reported production capacity. In Kansas, monthly proration orders by the State Corporation Commission give the "producing capacity" (determined by the most recent field test on an individual well basis); however, a total of the proration-order production capacity by wells in Kansas would not give a true picture of the production capacity of the wells. Because of the presently depressed market, there is little incentive for the operators to achieve a maximum test at annual testing time when most of the wells in Kansas are on the minimum daily allowable production. It would not be in the interest of conservation to direct the operators to assume added expense in making field tests to achieve maximum productivity tests on individual wells when the wells are only allowed to produce a minimum amount. The productive capacity of Kansas wells as estimated on January 1, 1962, was 360,000 barrels of crude oil per day. The input capacity of Kansas refineries is estimated to be about 346,000 barrels per day.

More than 130,000 exploratory and developmental wells have been drilled in Kansas. However, the density distribution of these wells is such that there are entire counties in Kansas which have had fewer than a dozen exploratory wells drilled in them. Additional supplies of liquid and gaseous hydrocarbons must come from future exploration. In Kansas there are many geologically favorable areas still unexplored.

Undeveloped reserves includes the oil which is left in the reservoir before secondary recovery techniques are applied. Presently, even

with the application of the best-known primary methods, about two-thirds of the original oil in the reservoir is not recovered. Secondary recovery methods will usually recover an additional one-third, leaving one-third remaining in the reservoir rock.

In a large area in eastern Kansas considerable quantities of oil of low gravity exist in fields totally undeveloped because technology has not, as yet, developed an extraction method. There is little or no natural expulsion energy in these reservoirs. Such areas of undeveloped reserves of fossil fuels are generally referred to as "Tar Sands." They comprise a potentially large reserve of energy.

Conservative estimates of proved reserves of crude oil and gas, providing no more wells are drilled and presently known reservoirs are depleted, would give Kansas about a 9 to 1 reserve-life index ratio for oil, and about a 25 to 1 ratio for gas. Reserves are not the same as availability, however, because rate of production in large part determines ultimate recoverability. In an emergency, Kansas' producing capacity could be increased by 10 to 15 percent for a short time. Oil reserves in a 9 to 1 ratio suggest a probable 35-year recovery period, because in depleting a reservoir the producing rate declines rapidly with time.

Although the value of reserves of natural gas liquids of Kansas is commonly overshadowed by the value of crude oil and natural gas, natural gas liquids (natural gasoline, condensate, and LPG, mainly propane and butane) supplement supplies of gasoline for motor vehicles and fuel for industrial and domestic use. Natural gas liquids also are used in the manufacture of plastics.

Kansas' proved reserves of liquid hydrocarbons (crude oil and natural gas liquids) as of December 31, 1962, were 1,041,506,000 barrels, a decrease of 1.9 percent from the previous year. Coincidentally, national reserves decreased 0.28 percent. The State's proved reserves of crude oil (862,410,000 barrels at the end of 1962) decreased 15,617,000 barrels or 1.8 percent, while

national reserves decreased 1.2 percent. Proved reserves of natural gas liquids (179,096,000 barrels in 1962) were 2.4 percent less than in the previous year (Table 27). Proved reserves of natural gas in Kansas at the end of 1962 were estimated to be 18,668,561 million cubic feet, a decrease of about 2.7 percent.

All estimates of reserves are taken from the American Petroleum Institute and American Gas Association's annual report on reserves. It should be emphasized that the figures in this report represent proved reserves of crude oil, natural gas liquids, and natural gas. The reserve figures used in this report do not include: (1) oil under the unproved portions of partly developed fields; (2) oil in untested prospects; (3) undiscovered oil that may be present in favorable regions; (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; and (6) oil that can be processed from oil shale, coal, or other substitute sources.

KANSAS GEOLOGICAL SOCIETY NOMENCLATURE COMMITTEE

The Kansas oil and gas industry has been served for 31 years by the Nomenclature Committee of the Kansas Geological Society. The Society is composed of professional geologists in Kansas. They cooperate in disseminating geological information, and their headquarters is at 508 East Murdock, Wichita, Kansas.

The first Nomenclature Committee was appointed in January 1932 and has been accepted as an advisory committee by the Mid-Continent Oil and Gas Association since the latter part of 1932.

Today the members of the Nomenclature Committee of the Kansas Geological Society also act as members of a subcommittee of Mid-Continent Oil and Gas Association Kansas-Oklahoma Division Nomenclature Committee, 300 Tulsa Building, Tulsa, Oklahoma. They act in an advisory capacity to the Kansas State Corporation Commission as provided under Rule 82-2-104 in the Rules and Regulations for the Conservation of Crude Oil and Natural Gas.

The basic purpose of the Committee is to study, name, and describe new fields and producing areas. Each wildcat discovery well from which production (oil and/or gas) is sold is declared a field opener, and the new field is named and the areal extent described. The Committee

also redescribes and combines old fields, and abandons fields that have become depleted. Decisions made by this Committee are the basis for field names and boundaries used in this report.

LeRoy Fugitt, H. A. Beverlin, and J. G. Firstenberger, who served as members of a subcommittee of the Kansas Geological Society, wrote a history of the Nomenclature Committee and presented the basic procedural rules. The following information is taken from their pamphlet "History and Organization," written in 1961.

The members of the Nomenclature Committee are appointed for either one- or two-year terms and are made up of the following: the President of the Kansas Geological Society, a representative of the Conservation Division of the Kansas Corporation Committee, a member of the State Geological Survey of Kansas, an oil scout from a given organization, the immediate past Chairman of the Nomenclature Committee, a representative of the crude oil purchasers, an independent and consulting geologist, a company geologist (preferably the District Geologist), and a representative of the Landmen's Association.

Terms used by this Committee (modified or expanded by us in this report) are:

"Pool." A common source of supply or producing formation as officially named. Currently recognized common sources of supply are: Chase, Council Grove, Admire, Wabaunsee, Shawnee, Douglas, Lansing-Kansas City, Pleasanton, Marmaton, Cherokee, Morrow, Pennsylvanian Basal Conglomerate, Mississippi, Misener, Hunton, Viola, Simpson, Arbuckle, and Reagan. Subdivisions of these formations are sometimes necessary to differentiate various "pay zones."

"Field." A geographic region containing one or more pools and common sources of supply.

"Area." The designation used in place of "pool" when the areal extent is great but there is still only one common source of supply. Examples of this application are: Hugoton Gas Area (Chase group); Panoma Gas Area (Council Grove group); Greenwood Gas Area (Wabaunsee, Shawnee, and Lansing-Kansas City groups only). In the case of the Greenwood Gas Area, although production is obtained from three different recognized sources of supply, the Committee, after careful study of the geology of the area and due consideration of the economics involved in drilling and producing, have de-

clared that because the three groups are in contact with each other, and not separated vertically by thick impervious barriers, they are to be considered in this instance as a common source of supply. (When area is not capitalized, it is used in its conventional meaning.)

Prior to each scheduled meeting of the Nomenclature Committee the Chairman prepares an agenda and mails copies of it to each member in sufficient time so that they may investigate thoroughly all items that are to be considered at the meeting. Members of the Committee and others then notify the Chairman of items which should be placed on the agenda.

The Chairman also prepares minutes of the meeting, and makes "field cards" for the permanent file. The published minutes of the meeting are mailed to each member of the Committee, as well as to other persons or companies as authorized by the President of the Kansas Geological Society and the Chairman of the Nomenclature Committee. The minutes follow this outline: (1) Corrections (if any) to previous meeting; (2) Acceptance of previous minutes as published; (3) New oil and/or gas fields or areas; (4) New pools in old fields; (5) Old fields combined and redescribed; (6) Old fields extended and/or redescribed; (7) Old fields revived and redescribed; and (8) Old fields in which all producing wells have been plugged and abandoned.

Names for new areas or fields are derived from the following sources and priority is given in this order: directional designations from previous field names if there is a possibility the two may eventually join; historical names or ghost towns; towns or cities; school names; political township names; lakes; creeks (or other named topographic features); lease names or first name of landowner; and abbreviations, contractions, and combinations of any of the above.

The areal extent of a new oil field usually includes all acreage one-half mile in each direction from the discovery well; however, if the discovery well's production potential is questionable, it may be assigned a lesser amount. The areal extent of a new gas field usually includes the section surrounding the discovery well plus the adjoining sections. Experience and good judgment guide the assignment of acreage to new fields.

When fields are combined and redescribed, either the better known or the oldest name is used. The field losing its identity is recognized as combined with the surviving field. The name

of the former may then be used again, but the card is placed in the inactive file. When re-describing, extending, or combining, care is exercised to avoid overlapping other fields in the vicinity.

When a field has been depleted its production is abandoned and acreage is reduced to a minimum but not below that which was formerly producing. The name and card remain in the active file.

An abandoned field may be revived when necessary and a new description made; however, the proven acreage contained in the abandoned field must also be included in the new description. The name of the revived well and the new pay zone are added to the old card.

Because these basic procedural rules for the Kansas Nomenclature Committee were developed over a 29-year period in piecemeal fashion, it is entirely possible that some past rules have been omitted. Certainly future usage will necessitate either new rules or changes in the old ones. Because a certain flexibility of the rules must be maintained, the subcommittee recommended that each June the basic procedural rules shall be reviewed by the entire Nomenclature Committee and all necessary changes or revisions read into the June minutes.

MAP OF OIL AND GAS PIPELINES AND INDUSTRIES IN KANSAS

The oil and gas industry in Kansas, which is defined herein as including drilling of wells, production, refineries and other extraction plants, transportation, and underground storage of natural gas and liquid petroleum gas, has become a very significant factor in the overall economy of the State because the industry is not confined to any one area within State.

Thousands of miles of inter- and intrastate pipelines carry natural gas, helium, crude oil, and refined products. Producing areas are "spider-webbed" with pipelines, gathering the harvest from the wells for transport to the refineries or natural gasoline plants, or, as in the case of many of the gas wells, for direct transport to market. Urban areas, similarly, contain miles of utility pipelines delivering natural gas to both industrial plants and to homes.

Crude oil and products extracted from it are also transported by surface carriers such as trucklines and railroads. About 15,000 workers are employed in the petroleum industry in Kansas. Petrochemical plants use much natural gas in

the production of fertilizers, alcohols, and other products. Most of the electricity-generating plants in Kansas are powered by gas.

Each year the Kansas Geological Survey's annual report on the oil and gas industry in Kansas includes a map (Plate 1) showing actual producing areas in the State, with all fields named. Because of the ubiquitous nature of oil and gas fields the names cover most of the State, making it impractical to show all the individual pipelines, plants, and underground storage areas on Plate 1.

About every five years an additional map of the State showing other facets of the oil and gas industry is brought up-to-date and published. A completely revised edition of such a map, showing pipelines and allied industries, is in press (Map M-2, "Map of Oil and Gas Pipelines and Industries in Kansas."). This map replaces Oil and Gas Investigations Number 18, "The Petroleum Industry in Kansas," issued in 1958. The 1963 base map of Kansas (USGS) serves as a background for the map, which is printed at a scale of 1 to 500,000 (approximately 8 miles to the inch). Plate I, "Oil and Gas Fields of Kansas," in this report, is also printed at this scale, using the same base map.

Crude oil, natural gas, helium, and products pipelines are shown on the map (M-2) in distinguishing colors (green, red, and black). The one helium pipeline in Kansas is indicated. Oil- and gas-producing areas appear as they are on Plate I, but field names are omitted. References should be made to Plate I for these names.

Map M-2 shows locations of crude oil refineries and extraction plants for natural gasoline, helium, and carbon black. Underground storage areas of both natural gas, in aquifers, and liquefied petroleum gas, in caverns (becoming more important yearly), are shown on the map. Compressor, booster, and terminal stations are also shown. The map does not show the locations of the petrochemical plants or of the many electricity-generating plants which use natural gas. Lists of the names and addresses of the pipeline companies are included, grouped by category. Geographical locations of the refineries and other extraction plants and the underground storage areas shown on the map are listed by section, township, and range.

STATISTICAL TABLES

The following Tables (28 through 35) give statistical data on oil and gas developments in Kansas during 1962. In sequence they include

data on the discovery wells of new oil and gas pools, revived fields, abandoned fields, inactive oil and gas fields, oil and gas zones discovered in oil producing fields during 1962, oil production by fields, and gas production by fields. Identification in all of these tables is first by county, then by field name, alphabetically arranged. Tables 28, 29, 30, 32 and 33 collectively, represent the official action of the Kansas Geological Society Nomenclature Committee during 1962. Table 31, inactive oil and gas fields and year of last production reported, is new this year.

The Nomenclature Committee has designated oil and gas fields which cover large areas in eastern Kansas. Within these designated fields there is considerable discontinuity between producing leases. Because the producing areas within these fields are less continuous than those elsewhere in the State, they have been subdivided into lesser producing areas which are connected by dashed lines on Plate I. In Table 34 no attempt has been made to list production by producing areas within these subdivisions, but elsewhere in Kansas prorated oil field production is indicated and differentiated by producing zone wherever possible.

A listing of an oil and gas field as inactive (Table 31) is defined by the Kansas Geological Survey to mean that these fields are not officially abandoned, but that, in many instances, years may have elapsed between reported annual production figures. This listing of fields as inactive replaces their listing in the detailed oil and gas production tables (Tables 34 and 35).

Many eastern Kansas counties have no cumulative production figures listed by field, but "recorded" cumulative production by county is indicated (Table 34). "Recorded" means all known production has been included but generally this total is a conservative figure. Cumulative oil production by field is reported as the sum of the producing zones. Non-prorated fields consisting of multiple producing zones, have been listed stratigraphically. In these cases, the production reported during the year may be from one or more than one producing zone. Field names by county listed in the production tables which are followed by a single asterisk extend across county lines. In those cases, the 1962 production, cumulatives, and number of active wells reported are only for that county. In order to arrive at the total production from these fields it is necessary to add the figures listed under the separate counties.

TABLE 28.—Oil and gas pools discovered in Kansas during 1962.

Country, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production bbl. per day
Barber County					
Brooks NW NW SE 32-31S-13W	Peel-Hardman No. 1 Brooks	Douglas	3730-3739	June	7,400,000 cu. ft. gas
DeGeer West C NW SW 4-33S-15W	Champlin Oil & Refining Co. No. 1 Brass	Mississippian	4758-4783	Sept.	11
Mingona C NE NE 21-31S-13W	Sunray DX Oil Co. No. 1 C. Smith	Simpson	4545-4547	July	247
Barton County					
Beran SW SE NE 24-17S-12W	Wilkinson & Chief Drlg. Co. No. 1 Beran	Arbuckle	3325-3333	Sept.	93
Claffin Northwest NW SE SW 33-17S-11W	Chief Drlg. Co., Inc. No. 1 Routledge	Lans.-K.C.	3063-3066	Nov.	44
Maybach NW SE SW 24-20S-14W	Alpine Oil & Royalty Co., Inc. No. 1 Carl Maybach	Lans.-K.C.	3401-3408	Oct.	16
Nuss South NE NE SW 9-16S-14W	Helmerich & Payne, Inc. No. 1 Wilhelm	Kansas City	3367-3369	May	81
Swader NW NE SE 29-20S-13W	Petroleum Operating Co. No. 1 Swader	Lans.-K.C.	3410-3414	Oct.	43
Webber NE NE SW 1-19S-14W	Spencer Drilling, Inc. No. 1 Webber*	Lans.-K.C.	3230-3318	June	4
Butler County					
Lietzke NW NW SW 3-28S-5E	Red Drlg. Co., Inc. No. 1 Lietzke	Simpson	3112-3120	Mar.	15
Overstreet NW/C Lot 21 19-26S-8E	Mohawk Oil Co. No. 1 Overstreet	Kansas City	2058-2067	Oct.	100
Cheyenne County					
Little Beaver Creek C NW NE 36-4S-37W	Toto Gas Co. No. 1 Rueber	Lans.-K.C.	4482-4486 4445-4452	July	85
Comanche County					
Protection C NE SE 24-32S-20W	D. G. Hamilton No. 1 Cox	Mississippian	5145-5180	Oct.	"oil"
Cowley County					
Albright North SW NW SE 22-33S-5E	Stewart Oil Co. No. 1 Carl Miller	"Hoover"	1665-1668 1671-1673	June	Temp. abd.
Cedarvale West NW NW NE 17-34S-8E	R. P. Baker & C. K. Gilliland No. 1 Bartgis	"Cattleman"	2243-2249	Aug.	20
Countryman North NE SW NW 27-32S-7E	W. H. Pitts No. 1 Parsons	"Layton"	2058	March	Temp. abd.
Whitacre NE SE NE 5-34S-4E	Wrico Drlg. Co. No. 1 Whitacre	Ireland	1740-1754	Oct.	4,300,000 cu. ft. gas
Decatur County					
Ung C NE SE 25-2S-30W	Rains & Williamson Oil Co. No. 1 Unger	Lans.-K.C.	3805-3806	July	139
Edwards County					
Belpre Southwest C NL SE/4 18-25S-16W	Leben Drlg., Inc. No. 1 Johnston	Mississippian	4382-4387 4392-4402	Nov.	55
Groner SE SE SE 5-23S-20W	Clementine Oil Corp. No. 1 M. E. Groner	Mississippian	4525-4546	March	Temp. abd.
Ellis County					
Antonino South NW NW SW 35-14S-19W	Petroleum Operating Co. No. 1 Herl	Arbuckle	3718-3726	April	101
Dreiling East SW NW SE 23-14S-16W	Wilson Exploration Co. No. 1 Goetz	Arbuckle	3414-3427	March	13
Leonhardt SE SE SE 20-14S-18W	Mayfield & Smith No. 1 Leonhardt	Lans.-K.C.	3415-3550	June	8½
Reed Northwest NW NE SE 31-12S-17W	Messman-Rinehart Oil Co. No. 1 Karlin	Arbuckle	3636-3643	April	45
Werth North NE SW SW 35-12S-20W	Petroleum, Inc. No. 1 King "K"	Arbuckle	3880-3886	Oct.	40
Younger Northwest NW NE SW 30-13S-17W	Raymond Oil Co., Inc. No. 1 Eakin	Lans.-K.C.	3410-3430	Dec.	"oil"
Younger Southeast NE SW SW 4-14S-17W	Okmar Oil Co. No. 1 Saturin	Kansas City	3347-3353	Sept.	42

TABLE 28.—Oil and gas pools discovered in Kansas during 1962 (continued).

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production bbl. per day
Ford County					
Rushville	Mull Drlg. Co.	Mississippian	4928-4947	Nov.	100
C SW SW 9-27S-21W	No. 1 Trimpa				
Graham County					
Bollig	Leben Drlg., Inc.	Lans.-K.C.	3986-3990	Dec.	30
SW SW SW 28-9S-25W	No. 1 Bollig*				
Gurk North	Kimbark Exploration Co.	Lans.-K.C.	3927-3995	March	128
SW SW NE 7-10S-25W	No. 1 Wm. McGuire				
J.A.B.	Glickman Oil Co.	Lans.-K.C.	3692-3852	April	80
C NW NE 17-7S-23W	No. 1 Brandt				
Martha Washington	C-G Drlg. Co.	Lans.-K.C.	3891-3895	Nov.	90
NW SE NW 24-10S-25W	No. 1 Knoll				
Riedel	Empire Drlg. Co.	Lans.-K.C.	3864-3870	May	132
C SE SE 6-10S-24W	No. 1 Riedel "D"				
Vance	Kimbark Exploration Co.	Lans.-K.C.	4035-4052	Feb.	91
NW SW NE 5-10S-25W	No. 1 Vance				
Grant County					
Ryus Townsite	United Producing Co., Inc.	Council Grove	2881-3013	Feb.	1,210,000
C SE NW 25-29S-35W	No. 1 Davis				cu. ft. gas
Harvey County					
Annelly	Crowe Drlg. Co., Inc.	"Burgess"	2760-2767	March	30
C SW NE 2-24S-2E	No. 1 Brainerd				
Hodgeman County					
Eakin	Raymond Oil Co., Inc.	Mississippian	4286-4294	Dec.	12
C SE SE 23-21S-21W	No. 1 Eakin				
Jarnagin	Imperial Oil of Kansas, Inc.	Mississippian	4489-4497	Nov.	113
C SE NE 11-23S-23W	No. 1 Jarnagin				
Lappin	Natl. Coop. Refg. Assn.	Mississippian	4665-4685	Sept.	166
C SW NW 33-23S-23W	No. 1 Lappin				
Oppy East	Sunray DX Oil Co.	Mississippian	4414-4434	Sept.	123
C NW NE 21-22S-22W	No. 1 E. Miller		4437-4440		
Oppy South	Imperial Oil & Gas Co.	Mississippian	4476	Sept.	241
C NE NW 36-22S-23W	No. 1 Billings				
Stairrett	Kern Landes Exploration Co.	Mississippian	4514-4521	Sept.	55
C NW NW 24-21S-25W	No. 1 Stairrett				
Kearny County					
Campbell	J. P. McMahon	Marmaton	4550-4565	Oct.	Temp. (18 BOPD
NW NW SE 9-21S-35W	No. 1 E. W. Campbell*	Herrington	2725-2810		abd. 150 mcf)
Kingman County					
Bickel	Sunray Mid-Continent	Mississippian	3881	March	11
C SW NE 15-28S-6W	No. 1 Fay				
Prather	B. H. Hilburn	Mississippian	3990-3994	May	2,800,000
C NW NW 18-28S-7W	No. 1 Prather				cu. ft. gas
Kiowa County					
Belvidere	J. E. Newman	Viola	4880-4886	Oct.	113
C SE/4 17-30S-16W	No. 1 Rice*				
Einsel	Kenneth Rupp	Mississippian	4825½-4826	Feb.	4,800,000
C NW NW 36-27S-19W	No. 1 Einsel				cu. ft. gas
Fralick South	Walters Drlg. Co.	Mississippian	4862-4876	Oct.	35
NE NE NE 35-27S-20W	No. 1 Zimmerman "D"				
Pyle Southwest	Greybol Oil Corp.	Mississippian	4706-4708	May	42
NW NW SE 19-29S-16W	No. 2 Pratt*				
Lane County					
Broughton	Helmerich & Payne, Inc.	Lans.-K.C.	4062-4063	July	55
NW SW SE 10-16S-27W	No. 1 Broughton				
Demand	Helmerich & Payne, Inc.	Ft. Scott	4512-4518	Aug.	99
C SW NE 25-16S-28W	No. 1 Demand				
Pendennis South	Helmerich & Payne, Inc.	Lans.-K.C.	4207-4218	April	131
C SE SE 33-16S-27W	No. 1 Anderson				
Selfridge	Helmerich & Payne, Inc.	Cherokee	4498-4509	Aug.	102
SW NE SE 9-17S-27W	No. 1 Selfridge				
Ness County					
Brecklein	Aladdin Petro. Corp.	Mississippian	4428-4433	July	Temp.
C NW SE 30-17S-25W	No. 1 Brecklein				abd.

TABLE 28.—Oil and gas pools discovered in Kansas during 1962 (continued).

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production bbl. per day
Delos C NE NW 5-18S-26W	Champlin Oil & Refg. Co. No. 1 Smith	Marmaton	4295-4298	Dec.	164
Dickman C NE NW 17-17S-24W	Walters Drlg. Co. No. 1 Dickman	Mississippian	4427-4434	June	76
Dumler S/2 S/2 NE 11-17S-26W	Pickrell Drlg. Co. No. 1 Dumler	Mississippian	4506-4511	June	71
Happy Hollow C NE SE 29-17S-22W	Mull Drlg. Co., Inc. No. 1 Hair	Penn. congl.	4242-4262	Dec.	"oil"
L.T.P. C SW SW 21-18S-24W	Mack Oil Co. No. 1 Peters	Cherokee	4320-4326	Dec.	"oil"
Ness City C NW NW 36-18S-24W	Walters Drlg. Co. No. 1 Sheldon-Lehner	Mississippian	4273-4282	Sept.	53
Nirvana C SE NW 14-18S-24W	Mack Oil Co. No. 1 Schuler "B"	Mississippian	4340-4344	Oct.	45
Norton County					
Hen NE NW NE 4-3S-23W	Pentagon Corp. No. 1 Henderson	Reagan	3537-3543	Oct.	139
West Union C SE SW 21-5S-21W	D & D Drlg. Co., Inc. No. 1 Williams	Reagan	3678-3681	Feb.	20
Pratt County					
Brachear NE SE SE 30-28S-13W	D. R. Lauck Oil Co., Inc. No. 1 Brachear	Simpson	4460-4466	June	145
Gereke Northwest SE SE NW 1-26S-15W	Rex & Morris Drlg. Co. No. 1 Childs	Viola	4350-4364	March	515
Rawlins County					
Beeson C SW SW 18-3S-35W	Empire Drlg. Co. No. 1 Beeson	Kansas City	4406-4412	Oct.	249
Cahoj West C NE SE 14-1S-35W	Burch Drlg. Co., Inc. No. 1 Savage	Lans.-K.C.	4182-4188	March	115
Reno County					
Castleton South NW NW SW 32-25S-6W	W. Pat Simmons No. 1 Graber*	Kansas City	3291-3295	Nov.	15
Huntsville C SE SW 20-23S-9W	Mull Drlg. Co., Inc. No. 1 Smith	Mississippian	3638-3671	May	6,650,000 cu. ft. gas
Huntsville Townsite C NW NE 8-23S-9W	Thos. H. Allan No. 1 Lavielle	Mississippian	3580-3598	July	600,000 cu. ft. gas
Rice County					
Alden Northwest NE SE SW 5-21S-9W	Thos. H. Allan No. 1 Schaefer	Kansas City	2974-2977	Oct.	14
Faler West SW SW NE 3-21S-9W	Renfro Drlg. Co. No. 1 Schuyler	Lansing	2958-2962	Feb.	25
McClintock NE NE NE 18-21S-8W	Ben C. W. Jr. Hyde No. 1 McClintock	Misener	3281-3287	Sept.	3,000,000 cu. ft. gas
Schoepflin SW SW NW 17-21S-9W	Palmer, Tom, Inc. No. 1 Schoepflin	Simpson	3380-3390	Jan.	50
Tobias Northwest SW NW SW 23-20S-9W	Carl Lebsack Oil Prod. Co. No. 1 Griffice	Simpson	3299-3335	June	100
Tobias South SE SE NE 35-20S-9W	Thunderbird Drlg., Inc. No. 1 Pulliam	Arbuckle	3381-3386	April	132
Rooks County					
Andreson SW NE 31-10S-18W	Davis Bros. No. 1 Andreson	Lans.-K.C.	3350-3397	July	70
Hance C NE SE 14-8S-19W	Morris G. Veverka Oil Co. No. 1 Hance "B"	Arbuckle	3459-3463	Dec.	80
Minnie "O" NE SE SE 10-9S-17W	Lee H. Cornell No. 1 Oswald	Arbuckle	3445-3455	Sept.	25
Nettie Northwest C NW SW 28-9S-17W	Davis Bros. No. 1 Rempe "A"	Lans.-K.C.	3513-3534	June	90
Vohs Northeast C NW NE 12-10S-19W	Davis Bros. No. 1 Vohs "G"	Lans.-K.C.	3441-3468	Feb.	100
Rush County					
Basgall West NE NE SE 6-16S-17W	Frontier Oil Co. No. 1 Kansas State	Lansing	3250-3258	Aug.	12,242,000 cu. ft. gas

TABLE 28.—Oil and gas pools discovered in Kansas during 1962 (concluded).

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production bbl. per day
McCracken North C NE NE 18-17S-20W	Hellar Drlg. Co., Inc. No. 1 Tanck	Cherokee	4056-4064	May	35
Rush Center Southeast NW NW SE 25-18S-18W	Martin & Keller No. 1 Zimmer	Arbuckle	3734	Oct.	54
Russell County Meckel SE SE SW 27-12S-15W	Rudy Herman Oil Operations No. 1 Meckel	Arbuckle	3245-3249	Feb.	25
Saline County Bachofer Southeast C NE SE 14-15S-2W	E. K. Carey Drlg. Co. No. 1 Akers	Mississippian	2760-2765	Nov.	61
Shultz SW SW SE 16-15S-3W	Mutual Oil Co., Inc. No. 1 Shultz*	Viola	3358-3373	June	15
Sedgwick County Erdwein SW NE NW 26-25S-2E	Emil Kucera No. 1 Erdwein	"Burgess"	2815-2829	June	74
O.S.A. SE SE NE 10-29S-1W	Shawver-Armour, Inc. No. 1 Cummings	Simpson	3736-3753	Nov.	oil
Sum-Wick NE NE SW 32-29S-1E	Leben Drlg., Inc. No. 1 Gardiner	Kansas City	2766	Nov.	Temp. abd.
Seward County Ang North C NE/4 34-31S-33W	Pan American Petro. Corp. No. 2 E. D. Fair	Des Moinesian	4944-4946	April	360
Condit C NE SW 8-34S-32W	Apache Corp. No. 1 Condit	Morrowan	5942-5956	Feb.	4,600,000 cu. ft. gas
Evalyn Southeast C SW NE 22-33S-33W	Anadarko Prod. Co. No. 1 Kurth "A"	Morrowan	5704-5708	June	542
Iris C SE SW 11-34S-31W	J. M. Huber Corp. No. 1 Iris	Council Grove	3024	Oct.	8,800,000 cu. ft. gas
Liberal East C SW NW 3-35S-33W	Brister Drlg. Co., Inc. No. 1 Finchman	Morrowan Chesteran	6112-6138 6218-6252	March	7,645,000 1,400,000 cu. ft. gas
Stafford County Emerson South SW SE NW 32-25S-14W	Imperial Oil Co. No. 1 Hall	Lans.-K.C.	3979-3982 3980-3983	Sept.	8
Flora NE NW NE 36-21S-11W	Imperial Oil Co. No. 1 Flora	Penn. congl.	3395-3397	May	161
K-W NW NW SE 7-23S-13W	Inger Oil Co. No. 1 Kelly-Williams	Kansas City	3611-3617	July	150
Sleeper South NE NW NE 34-22S-11W	Western Petroleum Co., Inc. No. 1 Gates	Arbuckle	3619-3623	June	105
Snider Northwest NW NE NE 5-21S-11W	F. G. Holl No. 1 Meyer	Marmaton	3362-3366	April	D & A
Spangenburg South NW NW SW 27-22S-12W	Halliburton Oil Prod. Co. No. 1 Krankenburg	Arbuckle	3684-3687	May	16
Suiter SE SE NW 24-24S-15W	Rex & Morris Drlg. Co. No. 1 Suiter	Viola	4154-4160	Dec.	50
Stevens County Grigsby C SW NE 4-31S-36W	Socony Mobil Oil Co. No. 1 Grigsby	Morrowan	5538-5543	Feb.	1,500,000 cu. ft. gas
Kel C SW/4 15-34S-38W	Anadarko Prod. Co. No. 1A-15 Kelly "B"	Council Grove	3044-3056	April	409,000 cu. ft. gas
Trego County Kohl SW SE NW 11-12S-21W	Glickman & Houston No. 1 Kohl	Lans.-K.C.	3694-3696	June	95
Mong C NE NE 25-11S-23W	Pentagon Corp. No. 1 Mong "B"	Lans.-K.C.	3618-3623	June	83
Scanlon C NE SE 18-11S-24W	John O. Farmer, Inc. No. 1 Scanlon	Lans.-K.C.	3868-3874	April	53
Wichita County White Women C NW SW 34-20S-35W	Amarillo No. 1 Grace T. Weesner	Marmaton	4523-4525	July	30

* Old well worked over.

TABLE 29.—Fields revived during 1962.

County, pool, and location of revival well	Revival well	Producing zone	Production depth, feet	Month revived	Initial production, bbl. per day
Barber County Salt Fork NE SE NW 3-35S-15W	Braden Drlg., Inc. No. 1-3 Davis Ranch	Mississippian	4866-4874	Sept.	5,210,000 cu. ft. gas
Barton County Ash Creek* SW SW SE 30-20S-15W	Bob Davis No. 1 Unruh	Simpson	3790-3810	April	1,300,000
Blood Creek NE SW NE 9-18S-13W	Wilkinson Drlg. Co. No. 1 Eveleigh	Lans.-K.C.	3162-3164 3161-3166	April	28
James SE NE NE 20-19S-12W	Raymond Oil Co., Inc. No. 1 McNeive	Lansing	3174-3220	May	70
Millard SE SE SW 29-16S-14W	W. Pat Simmons No. 1 Popp**	Kansas City	3363-3367 3379-3383	June	76
Butler County Butwick Northeast SW NW NE 7-26S-3E	Saco Oil Co. No. 2 Holder**	Mississippian	2804-2838	Oct.	10
Chautauque County Hylton NE SE NW 13-32S-9E	J. Allison No. 1 Beckenholdt	Arbuckle	2443-2445	Aug.	50
Decatur County Jording C SW NW 23-2S-30W	Burch Drlg. Inc. & Halliburton No. 1 Jording	Lansing	3848-3854	Sept.	27
Elk County Youngmeyer SE NE SW 24-28S-8E	Beaumont Petrol. Co. No. 2 Youngmeyer-Palmer "B"	Arbuckle	2894	Oct.	25
Ellis County Experiment NE NW NW 17-14S-18W	Leben Drlg., Inc. No. 1 Ft. Hays College	Arbuckle	3660-3673 ½	Aug.	15
Graham County Dorman SW NE NE 25-10S-24W	Glickman Oil & Houston Petrol. No. 1 Billings	Lansing	3892-3914	June	10
Pawnee County Ash Creek Southwest SE NW NE 11-21S-16W	Alpine Oil & Royalty Co. No. 1 Bowman	Arbuckle	3776-3783	Aug.	136
Pratt County Coats West NW NE NE 23-29S-14W	Nadel & Gussman No. 1 Moss	Simpson	4541-4544	April	265
Reno County Friendship SE SE SE 19-25S-4W	Texstar Petrol. Co. No. 1 Blocker	Kansas City	3221-3222	April	50
Russell County Claussen SW SW NE 34-12S-14W	Fred Claussen No. 6 Claussen	Lans.-K.C.	2780-2811	Dec.	15
Fossil Creek 11-14-14W	(Revived for purpose of combination)	Wabaunsee			
Russell North NW NW SW 15-13S-14W	Rudy Herman Oil Operations No. 1 Mayers	Lans.-K.C.	2989-2995	July	30
Sumner County Tate E/2 SE NW 31-32S-2E	James W. Hershberger Oil No. 1 Tate	Simpson	3731-3737	Sept.	37

* Field extends into adjacent county.

** Old well worked over.

TABLE 30.—Fields abandoned in Kansas during 1962.

County, pool, and location of discovery well	Discovery well	Name	Producing zone		Aver. grav.	Cumulative production, bbl.	Year of discovery	Month of abandonment
			Depth, feet	Thickness, feet				
Barber County								
Cottonwood Creek	No. 1 Werner	Simpson	4,582	..	..	0	1948	December
Barton County								
Behrens Northeast	No. 1 Gagleman	Arbuckle	3,639	..	..	275	1955	April
Fleske	No. 1 Fleske	Lans.-K.C.	3,470	4	37	6,459	1953	July
Kath	No. 1 Kath	Arbuckle	3,364	6	..	1,287	1960	July
Pendergast	No. 1 Pendergast	Arbuckle	3,594	13	..	7,254	1953	August
Chase County								
Altemus	No. 2 Norton	Lans.-K.C.	.....	..	..	.....	.....	December
Bazaar	No. 1 Miller	Admire	.....	..	..	.....	1951	December
Elk .....			.....	..	..	.....	1930	April
Cowley County								
Brown West	No. 1 Brown	Douglas	1,568	..	..	.....	1951	December
Copeland	No. 1 Copeland	Mississippi	3,211	13	..	2,008	1952	December
Hackney	No. 1 Winfield Airport	Mississippi	3,246	12	..	2,454	1956	June
Maple	No. 1 Muller	"Bartlesville"	3,067	6	..	1,354	1958	June
Decatur County								
Van Vleet	No. 1 Van Vleet	Lans.-K.C.	3,356	11	28	2,861	1956	July
Edwards County								
Bradbridge S. W.	No. 1 Klein	Arbuckle	4,120	..	..	.....	1959	August
Groner	No. 1 Groner	Mississippi	.....	..	..	0	1962	December
Wayne	No. 1 Cross	Mississippi	4,368	16	..	8,184	1956	October
Ford County								
Conrardy	No. 1 Conrardy	Cherokee	4,990	..	..	.....	1961	April
Gove County								
Coberly	No. 1 Coberly	Lans.-K.C.	4,122	10	35	71,322	1951	October
Gove	No. 1 Teeter	Marmaton	4,287	9	36	.....	.....	.....
		Lans.-K.C.	4,122	3	30	.....	.....	.....
		Mississippi	4,547	..	33	32,605	1951	October
Graham County								
Kenyon	No. 1 Kenyon	Lans.-K.C.	3,360	5	38	.....	1957	August
Harper County								
Goheen	No. 1 M. V. Goheen	Mississippi	4,310	24	..	.....	1958	August

Field extends into adjacent county.

TABLE 31.—Inactive oil and gas fields and year of last reported production.

County, pool, and location of discovery well	Location	Discovery well	Name	Depth, feet	Thickness, feet	Cumulative production, bbl.	Year of last reported discovery	Year of last reported production
Anderson County								
Greeley	7-19-21E		Cherokee	800	--	.....	.....	1958
Bourbon County								
Lost Creek	7-23-24E			.....	--	.....	.....	1959
Brown County								
Livingood	3- 1-15E	No. 1 Livingood	"Hunton"	2,580	--	90,394	1944	1957
Butler County								
Butwick	7-26- 3E	No. 1 DeMoss	Mississippian	.....	--	556	1949	1959
"	13-26- 2E		"Hunton"	3,192	2	.....	1960	.....
De Graff	8-24- 5E	No. 1 Wilson	"Burgess"	2,440	--	1,376	1955	1957
Douglas Township	20-29- 4E	No. 2 Bannon	Lansing	1,880	10	594	1958	1959
Elbing South	32-23- 4E	No. 1 Classen	Kansas City	2,041	14	None	1958	.....
McCann	7-25- 3E	No. 2 Chaney	"Burgess"	2,765	--	2,890	1933	1960
Mann	29-26- 4E	No. 1 Mann	Lans.-K.C.	2,114	5	None	1960	.....
Mellor Northeast	6-24- 4E	No. 1 Claassen	Mississippian	2,441	10	None	1958	.....
Phares	5-26- 3E	No. 1 Phares Est.	Mississippian	2,756	2	3,545	1957	1960
Pontiac Southwest	23-26- 6E	No. 1 Jones	Mississippian	.....	--	1,886	1956	1958
Powell	12-24- 3E	No. 1 Powell	Mississippian	.....	--	2,680	1925	1960
Chautauque County								
Hewins	31-34-10E		Lansing	1,100	--	.....	.....	1959
Knowles	22-32- 9E	No. 1 Knowles	"Bartlesville"	2,130	6	None	1960	.....
Leonard	1-34- 9E	No. 1 Leonard	"Peru"	.....	--	.....	.....	1959
Lowe	7-34-10E		"Peru"	.....	--	.....	.....	1960
McGlaason	11-33- 9E		Mississippian	.....	--	.....	1947	1956
McGlaason West	10-33- 9E	No. 2 Bever "A"	Mississippian	2,284	3	83	1959	1960
Malone	18-32-10E	No. 1 Green	Arbuckle	2,340	--	.....	1928	1960
Ogle	29-34-11E	No. 1 Ogle "A"	"Peru"	1,270	10	539	1957	1957
Ramsey	18-33- 9E	No. 1 Ramsey	Mississippian	.....	--	817	1955	1956
Rich	16-33- 9E	No. 1 Rich	Mississippian	2,285	30	2,118	1956	1957
Wauneta	7-34- 9E	No. 1 Fisher	"Peru"	1,670	--	.....	1924	1959
			Mississippian	2,100	--	.....	.....	.....

TABLE 31.—Inactive oil and gas fields and year of last reported production (concluded).

County, pool, and location of discovery well	Location	Discovery well	Name	Depth, feet	Thickness, feet	Cumulative production, bbl.	Year of discovery	Year of last-reported production
Johnson County								
Prairie Center	4-14-22E	No. 1 Gardner	Marmaton "Squirrel"	.....	..	.....	1942	1958
Labette County								
Banzet	?-35-19E		"Bartlesville"	.....	..	.....	.....	.....
Indebro	?-31-19E			.....	..	.....	.....	1957
Valeda .....				.....	..	.....	.....	1956
Leavenworth County								
Banker's Life	3-10-20E	No. 1 Banker's Life	"McLouth"	1,450	..	.....	1941	1959
Linn County								
Blue Mound		No. 1 Brooks	Cherokee	.....	..	.....	1930	1955
Critzer	?-22-22E			.....	..	.....	.....	1955
Lyon County								
Welch-Mohr	30-20-10E	No. 1 Welch	"Bartlesville"	2,293	22	5,383	1953	1956
"	30-20-10E		Mississippian	.....	..	.....	1929	.....
Marion County								
Shank	12-22- 3E	No. 1 Burton	Mississippian	2,474	27	94,995	1952	1960
Nemaha County								
Sabetha	13- 2-14E	No. 1 Oron Strahm	"Hunton"	2,826	8	68,857	1950	1960
Neosho County								
Kimball	32-27-21E	No. 1 Long		.....	..	.....	1928	1955
Osage County								
Vassar	23-16-16E	No. 1 Woodward	Mississippian	1,524	7	None	1961	.....
Woodson County								
Annabelle	32-25-15E	No. 1 Corkery	"Squirrel"	1,173	5	572	1956	1957
Stange	20-24-16E	No. 1 Stange	Cherokee	.....	..	.....	1938	1959
Stephenson	9-25-14E	No. 1 Stephenson & Hale	"Bartlesville"	1,425	..	.....	1926	1955
Wilson County								
"Stryker"	?-28-13E			.....	..	.....	.....	1956

TABLE 32.—Fields combined in Kansas during 1962.

County and name of field combined	Discovery well location	Area, acres	Name	Producing zone			Year of discovery	Cumulative production, bbl.	Month of combination	Combined as part of
				Depth, feet	Thickness, feet	Producing zone				
Barber County										
ILS Southwest	17-31-11W	200	Douglas	3,766	..	..	1959	82 & 792,010 M cu. ft.	February	ILS
Barton County										
Workman West	28-20-12W	180	Arbuckle	3,434	16	..	1956	142,334	July	Chase-Silica*
Marion County										
Dobbs	22-19- 3E	1,410	Mississippian	2,367	6	..	1960	.....	August	Lost Springs*
Ellis County										
Schmeidler Northwest	20-12-17W	300	Lans.-K.C.	3,540	6	..	1953	179,567	March	Schmeidler
		..	Arbuckle	3,696	..	..	.....	.....		
Graham County										
Fabricius South	36- 7-23W	200	Lansing	3,669	3	..	1958	90,089	March	Fabricius
Harvey County										
DuBois East	36-24- 2E	40	"Burgess"	2,835	10	..	1959	8,790	November	DuBois*
Haskell County										
Lemon North	33-29-33W	40	Marmaton	4,754	2	..	1961	120	January	Lemon Northwest
Hodgeman County										
Hanston	8-22-22W	80	Mississippian	4,477	27	..	1961	6,135	December	Hanston-Oppy
Jetmore West	23-22-24W	40	Mississippian	4,558	8	..	1957	23,278	July	Jetmore
Oppy	19-22-22W	..	Mississippian	4,516	7	..	1961	.....	December	Hanston-Oppy
Oppy East	21-22-22W	..	Mississippian	.....	..	..	1962	.....	December	Hanston-Oppy
Kingman County										
Basil Northeast	14-29- 7W	80	Lans.-K.C.	3,310	5	..	1960	26,300	February	Spivey-Grabs-Basil
Gilchrist	15-30- 7W	700	Lans.-K.C.	3,726	5	..	1955	347,013 & 25,905 M cu. ft.	August	Spivey-Grabs-Basil
		..	Mississippian	4,084	35	..	.....	.....		
McPherson County										
Larson	33-18- 2W	1,200	Mississippian	2,965	15	..	1958	259,228	February	Ritz-Canton
Nemaha County										
Strahm East	26- 2-14E	..	"Hunton"	2,826	11	..	1953	7,744	June	Strahm

TABLE 32.—Fields combined in Kansas during 1962 (concluded).

County and name of field combined	Discovery well location	Area, acres	Name	Producing zone			Month of combination	Combined as part of
				Depth, feet	Thickness, feet	Year of discovery		
Pratt County								
Carver-Robbins Northeast	10-27-15W	80	Penn. congl.	4,400	9	1956	August	Carver-Robbins
								13,914 & 232,537 M cu. ft.
Rice County								
Rick Southeast	18-19-10W	120	Lans.-K.C.	3,026	5	1947	March	Chase-Silica*
Tobias South	35-20- 9W	"	Arbuckle	3,334	"	.....		
		"	Arbuckle	.....	"	1962	November	Tobias
Rooks County								
Riffe	4- 7-19W	240	Lans.-K.C.	3,230	"	1951	October	Locust Grove
Russell County								
Fossil Creek	11-14-14W	"	Wabunsee	.....	"	1953	November	Hall-Gurney
Janne	24-15-12W	300	Lans.-K.C.	.....	5	.....	December	Driscoll
		"	Arbuckle	3,319	"	1943		
Saline County								
Mentor	13-15- 3W	380	Viola	3,258	15	1944	April	Salina
Mentor South	25-15- 3W	80	Maquoketa	3,290	6	1961	January	Mentor
Salina South	32-14- 2W	1,280	Maquoketa	3,218	6	1946	April	Salina
		"	Viola	3,246	8	.....		
Seward County								
Kismet Northwest	10-33-31W	40	Morrowan	5,584	"	1953	July	Kismet
								2,452 & 337,019 M cu. ft.
Stafford County								
Morning Star	1-25-14W	320	Lans.-K.C.	3,664	3	1958	March	Severs Northwest
		"	Mississippian	4,025	18	.....		
		"	Arbuckle	4,280	"	.....		
St. John North	20-23-13W	"	Lans.-K.C.	3,603	4	1952	February	St. John Northwest
Trego County								
Newcomer Northwest	2-12-23W	520	Lans.-K.C.	3,763	5	1956	February	Newcomer

* Field extends into adjacent county.

TABLE 33.—New oil or gas zones in old producing fields, 1962.

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month of discovery	Initial production, bbl. per day
Barber County					
Stumph NE SW SW 9-32S-14W	Bachus & Aylward No. 2 Barkley	Stalnaker	4054-4070 4070-4082	Dec.	3,800,000 cu. ft. gas
Barton County					
Nuss South SW SW NE 9-16S-14W	Sooner No. 1 Nuss	Arbuckle	3392-3413	Dec.	58
Swader NW NE SE 29-20S-13W	Petroleum Operating Co. No. 1 Swader	Lans.-K.C.	3410-3414	Dec.	43
Butler County					
Hickory Creek NE NW NE 14-28S-5E	T O C K Drlg. Co. No. 1 Hammond	Kansas City	2107-2108	June	60
Skaer SW SW SE 21-27S-3E	Shawver-Armour, Inc. No. 1 Myler Unit**	Kansas City	2339-2343	March	42
Cowley County					
Turner North SE NW NE 18-32S-6E	Franco Western Oil Co. No. 2 Duckworth	Mississippian	3032-3042	Feb.	152
Edwards County					
Wil C NE NW 34-25S-16W	Stateswide Oil Corp. No. 2 Mayhew**	Kansas City	4032-4040	July	70
Ellis County					
Antonino South SW SW NW 35-14S-19W	Kaiser-Francis No. 1 Herl "A"	Lans.-K.C.	3554-3563	June	79
Heyl Southeast NW NW NW 22-14S-17W	Okmar Oil Co. No. 1 Younker	Toronto	3222-3228	Aug.	52
Meistrell Southwest NE NE NW 9-11S-18W	Petroleum, Inc. No. 2 O'Brien "B"	Toronto	3262-3268	March	47
Ellsworth County					
Green Garden NW SE NE 2-17S-9W	Wilkinson Drlg. & Houston Pet. No. 2 Mohlman	Arbuckle	3243½-3247½	June	25
Finney County					
Amazon Ditch C SE NW 20-22S-34W	Horizon Oil & Gas Co. No. 1-20 Burg	Marmaton	4286-4292	April	120
Greenwood County					
Seeley-Wick E/2 SW SW 31-23S-12E	Robinowitz & Young No. 2 Nesbitt "B"	"Bartlesville" "Cattleman" (co-mingled)	1631-1763	March	25
Haskell County					
Victory C NW SW 29-30S-33W	Cities Service Petro. Co. No. C-2 Blair	Marmaton	4750-4757	Oct.	84
Hodgeman County					
Jetmore East C SE NW 30-22S-23W	Imperial Oil of Kansas No. 4 Hays	Mississippian		April	48
Meade County					
Novinger East C SW SE 31-33S-29W	Thomas & Brewer No. 1-31 H. G. Adams	Morrowan	5834-5900	Sept.	5,500,000 cu. ft. gas
Morton County					
Berryman C NW/4 15-33S-41W	Thomas & Brewer No. 1 Government	Chase Group	2222-2261	March	3,154,000 cu. ft. gas
Berryman SE NW NW 16-33S-41W	Thomas & Brewer No. 1 Neptune	"Purdy"	5001-5015	Aug.	91 & 865,000 cu. ft. gas
Elkhart West S/2 NW SW 8-35S-43W	Anadarko Prod. Co. No. 1 Change	Morrowan	4232½	June	70
Interstate C SW NE 21-34S-43W	Anadarko Prod. Co. No. 0-11 Interstate**	"Red Cave"	1184-1216	May	3,480,000 cu. ft. gas

TABLE 33.—New oil or gas zones in old producing fields, 1962 (concluded).

County, pool, and location of discovery well	Discovery well	zone Producing	Production depth, feet	Month of discovery	Initial production, bbl. per day
Pratt County					
Brehm	Continental Oil Co.	Lans.-K.C.	3848-3856	Sept.	4,640,000
NE SW SW 23-28S-13W	No. 6 Brehm**				cu. ft. gas
Gereke North	Schermerhorn & Strata	Lans.-K.C.	3798-3806	July	36,000,000
SW NE SE 1-26S-15W	No. 1 Thompson				cu. ft. gas
Rawlins County					
Beeson	Empire Drlg. Co.	Lansing	4406-4446	Nov.	249
C SW SW 18-3S-35W	No. 1 Beeson		4406-4412		
Reno County					
Sterling Southwest	Buick Drlg., Inc.	Mississippian	3525-3535	April	14
C SW NW 16-22S-8W	No. 1 Snook				
Rice County					
Faler	I. O. Miller Oil Co.	Lans.-K.C.	2945-2948	Nov.	35
SW SW NE 11-21S-9W	No. 1 Lipp				
Lyons Southwest	Brunson-Spines	Simpson	3280-3290	March	3,300,000
C N/2 SE SE 21-20S-8W	No. 1 Heter				cu. ft. gas
Lyons Southwest	Brunson-Spines	Arbuckle	3300-3310	March	5,000,000
SE NW SE 21-20S-8W	No. 3 Heter				cu. ft. gas
Tobias	Fleming & Imperial	Penn. congl.	3284-3287	Feb.	26
SW NW SE 25-20S-9W	No. 1 Swenson-Sauer				
Tobias Northwest	Carl Lebsack Oil Co.	Arbuckle		Oct.	114
NW NW SW 23-20S-9W	No. 5 Griffie				
Rooks County					
Baumgarten	Oil Property Management, Inc.	Toronto	3325-3345	April	23
SE NE NW 30-9S-18W	No. 3 John "A"				
Natoma	Cities Service Petroleum Co.	Penn. congl.	3239-3402	April	247
NE SE SE 15-10S-16W	No. 1 Smith "U"				
Rush County					
Big Timber	Frontier Oil Co.	Marmaton	3606-3614	July	81
SW NW SW 5-16S-18W	No. 2 Lieker				
Reichel Gas Area	Frontier Oil Co.	Lans.-K.C.	3482-3487	June	2,428,000
NE SW SE 26-17S-17W	No. 1 Erbes				cu. ft. gas
Seward County					
Kismet	Shamrock Oil & Gas Corp.	Lans.-K.C.	4864-4870	Feb.	24
C NE NE 35-33S-31W	No. 1 "A" Simonson	Mississippian	5771-5869		633
Stafford County					
Flora	Imperial Oil of Kansas, Inc.	Lans.-K.C.	3309-3313	Oct.	130
SW SE SW 25-21S-11W	No. 1 Frick				
Macksville	Wilkinson Drlg., Inc.	Arbuckle	4110-4113	April	25 &
C S/2 NE NW 11-24S-15W	No. 4 Harkness				3,000,000
					cu. ft. gas
Slade South*	Musgrove Drlg. Co.	Lans.-K.C.	3608-3614	May	12
SE NW NE 3-26S-12W	No. 1 Hartsell**				
Stanton County					
Shore	Pan American Petrol. Corp.	Penn.	2963-2965	Feb.	3,300,000
C SW NE 28-30S-40W	No. 1 Herrick GU				cu. ft. gas
Stevens County					
Center	Anadarko Prod. Co.	Mississippian	6562-6575	Nov.	349
C NE/4 34-33S-37W	No. 2 Brubaker "A"	(St. Louis)			
Sumner County					
Anson Southeast	Richard King, Jr.	Lans.-K.C.		Nov.	4
SE SW NE 2-31S-2W	No. 1 Meyers				

* Field extends into adjacent county.

** Old well worked over.

TABLE 34

OIL PRODUCTION IN KANSAS

DURING 1962

FOOTNOTES

- *Field extends into adjacent county or counties.
- **Corrected cumulative.
- + Estimate.

Table 34.—Oil production in Kansas during 1962

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abdl. 1962	Producing zone		
			during 1962	to end, 1962			Name	Dep. ft.	Thick- ness, ft.
ALLEN COUNTY									
Bronson-Xenia*	17-25-21E	2,500	117,446		226	4	"Bartlesville"	700	18
Colony West* ('22)	15-23-18E	500	1,820		28	1	"Squirrel"	820	
Davis-Bronson*	24-21E	1,080	29,472		122	9	"Bartlesville"	720	45
Elsmore Shoestring ('08)	5-26-21E	1,600	75,734		48	7	"Bartlesville"	650	24
Elsmore West ('11)	12-26-20E	300	5,084		16	2	"Bartlesville"	775	20
Humboldt-Chanute*	26-18E	11,000	340,899		1,036	21	"Bartlesville"	850	
Iola ('37)	24-18E	3,000	284,127		380	1	"Bartlesville"	850	
Moran ('03)	25-20E	2,500	85,032		105		"Bartlesville"	820	
Neosho Falls-Leroy* ('05)	35-22-16E	200	3,990		10		"Squirrel"	965	
Seibert	5-26-20E	180	3,594		10	1	"Mississippian"	1,200	
Miscellaneous		60	551+		5+	2	"Bartlesville"	680	
Total Allen County		22,920	947,749	24,346,447 recorded	1,986	48			
ANDERSON COUNTY									
Bush City Shoestring ('21)	28-20-21E	2,800	200,959		737	12	"Squirrel"	620	20
Centerville* ('20)	10-21-22E	280	14,089		57		"Bartlesville"	480	15
Colony-Welda ('16)	4-23-19E	1,980	74,535		184		"Weiser"	600	15
Colony West* ('22)	15-23-18E	820	64,569		93		"Squirrel"	780	
Garnett Shoestring ('04)	32-20-20E	480	25,088		38		"Squirrel"	825	35
Kincaid ('21)	10-23-21E	440	7,917		72		"Garnett"	800	36
Selma ('29)	9-22-21E	300	800		33		"Bartlesville"	750	12
Total Anderson County		7,100	387,957	20,510,826 recorded	1,214	12	"Bartlesville"	700	25
BARBER COUNTY									
Aetna Gas Area ('35)	13-34-15W	16,000	14,524	151,812	43	2	Mississippian	4,850	7
Amber Creek ('52)	36-30-12W		no report	19,178			Viola	5,215	
Bloom ('55)	23-32-12W	40	4,713	40,179	2		Mississippian	4,296	30
Bloom North ('59)	14-32-12W	80	32,812	71,336	4		Simpson	4,672	37
Boggs Southwest ('55)	30-33-12W	1,700	2,720	64,339	18		Mississippian	4,230	20
Brooks-Younger ('55)	23-32-13W		no report	33,633	2	1	Mississippian	4,456	
Clara* ('48)	36-29-14W	80	6,890	105,164	2		Mississippian	4,423	5
Deerhead ('43)	22-32-15W	640	31,663	1,190,340	10		Simpson	4,472	40
							Viola	4,950	9
									26

DeGeer ('48)	2-33-15W	no report	755,590	Viola Simpson	5,176	10	40
DeGeer West ('62)	4-33-15W	40	1,049	Mississippi	5,356	2	
Donald ('46)	33-31-15W	860	644,294	Mississippi	4,753	25	38
Eads* ('58)	4-30-14W	80	56,637	Simpson	4,697	9	
Eisea ('56)	27-32-14W	160	10,576	Marmaton	4,625	20	
Elwood ('56)	34-34-13W	1,040	2,322	Mississippi	4,662	18	31
Glick East ('61)	18-31-15W	40	427	"Elgin"	3,662	10	
Gudeman ('54)	10-33-10W	40	no runs	"Penn Sand"	4,703	41	
Hardtner ('54)	31-34-12W	2,380	68,572	Viola	5,152	10	47
Highway ('56)	14-32-11W	200	13,993	Mississippi	4,782	6	15
ILS ('56)	9-31-11W	80	913	Douglas	3,587	16	26
ILS Southwest ('59)	17-31-11W	Combined with ILS		Douglas	3,766		
Lake ('59)	26-31-14W	40	no runs	Douglas	3,766		
Lake City ('37)	7-31-13W	no report	6,664	Arbuckle	4,747	5	30
			307,865	Viola	4,435		43
				Simpson	4,530		
Landis ('55)	21-34-11W	40	no runs	Arbuckle	4,607		
Little Bear Creek ('54)	12-32-14W	no report	5,252	Mississippi	4,630	10	25
			1,801	Douglas	3,808	16	25
McGuire-Goemann ('55)	29-32-10W	450	33,852	Viola	4,670	10	
McReynolds ('59)	19-31-10W	20	1,903	Mississippi	4,433	20	
Medicine Lodge-Boggs ('37)	13-33-13W	4,000	305	Mississippi	4,520	2	35
			204,087	Marmaton	4,664	18	37
				Mississippi	4,495	6	
				"Misener"	4,845		
Medicine Lodge North ('54)	25-32-13W	1,240	765,520	Simpson	4,806	26	
Mingona ('62)	21-31-13W	40	6,783	Mississippi	4,480	13	37
Nippawalla ('51)	13-33-12W	60	no runs	Simpson	4,545	2	
Nurse ('53)	13-31-13W	40	1,956	Douglas	3,659		
Palmer ('58)	30-32-13W	980	540	Mississippi	4,190	6	28
			33,505	Marmaton	4,477	11	26
			61,842	Mississippi	4,524	22	
			4,925	Viola	4,923	7	44
Perry Ranch* ('58)	12-32-16W	160	1,637	Mississippi	4,785		
Rhodes ('49)	15-33-11W	5,000	6,243,509	Mississippi	4,551	26	
			176,855	Viola	4,803		
Rhodes Northeast ('56)	2-33-11W	450	5,074	Mississippi	4,400	10	
Rhodes South ('57)	6-34-11W	300	19,366	Mississippi	4,564	30	
Roundup South ('53)	33-33-11W	40	150	Mississippi	4,457		
Salt Fork (revived) ('58)	12-35-15W	100	2,075	Mississippi	4,955	28	
Sharon* ('55)	13-32-10W	400	3,652	Mississippi	4,355	10	21
Sharon Northwest ('56)	11-32-10W	860	236,279	Mississippi	4,347	10	
Skinner ('43)	29-31-14W	640	2,953	Mississippi	4,347	10	
			30,737	Viola	4,626	38	30
				Simpson	4,422		
Stumph ('52)	7-32-14W	560	26,167	Mississippi	4,801	4	
				Simpson	4,963	7	
Sun City ('41)	35-30-15W	640	6,841	Lans.-K.C.	4,344		31
Traffas ('55)	6-33-10W	40	1,525	Mississippi	4,590	28	
Turkey Creek East ('57)	21-30-15W	640	626,277	Viola	4,557	5	36
Wells ('57)	18-34-15W	40	124	Cherokee	4,768	10	
				Mississippi	4,768	24	
Whelan ('34)	32-31-11W	1,080	3,538,692	"Chat"	4,355	27	30

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abdn. 1962	Producing zone		
			during 1962	to end, 1962			Name	Depth, ft.	Thickness, ft.
Whelan East ('54)	21-31-11W		no runs	61			Douglas	3,746	
Whelan Southwest ('54)	11-32-12W	40	955	18,896	1		Mississippian	4,229	11
Whelan West ('55)	25-31-12W		no report	12,887			Mississippian	4,284	8
Wolgamott ('57)	16-35-14W	40	460	2,560	1		Cherokee	4,865	4
Total Barber County		41,400	1,075,410	25,511,884	558	24			
BARTON COUNTY									
Ainsworth South ('37)	10-17-13W	3,260	196,549	5,776,544	72	2	Lans.-K.C. Arbuckle	3,170	
Ameh ('51)	19-18-11W	80	12,795	86,602	2		Lans.-K.C.	3,390	50
Ames ('43)	22-18-11W	2,000	116,194	2,236,808	41		Lans.-K.C. Arbuckle	3,103	35
Ames Northwest ('47)	9-18-11W	40	2,065	61,600	1		Lans.-K.C. Arbuckle	3,348	40
Ash Creek* (revived) ('47)	31-20-15W		no runs	471,716			Arbuckle	3,312	
Axman ('49)	19-17-14W	80	2,086	189,554	1		Lans.-K.C. Arbuckle	3,136	43
Bailey ('56)	30-18-11W	180	22,071		5		Arbuckle	3,400	
Barrett ('43)	36-16-14W	580	4,271	243,847	1		Lans.-K.C. Arbuckle	3,270	5
Bart-Staff* ('51)	4-21-14W	600	10,953	328,335	7		Lans.-K.C. Arbuckle	3,396	21
Batchman ('50)	19-20-12W	640	51,904	1,020,426	13		Lans.-K.C. Arbuckle	3,355	40
Beaver ('34)	16-16-12W	2,480	94,057	4,694,379	41	3	Arbuckle Toronto Arbuckle Reagan	3,463	5
Beaver North* ('37)	4-16-12W	300	84,883	849,997	4		Lans.-K.C. Arbuckle	3,572	29
Beaver South ('45)	27-16-12W	2,000	143,583	1,951,172	41	1	Lans.-K.C. Arbuckle Topeka Arbuckle Lans.-K.C. "Sooy"	3,201	35
Behrens ('44)	6-20-15W	580	5,158	664,943	5		Arbuckle	2,885	6
Behrens Northeast ('55)	29-19-15W		Abandoned during 1962				Toronto Arbuckle	2,938	5
Bend ('61)	11-20-13W	120	24,504	34,878	4		Reagan Topeka Arbuckle	3,348	10
Beran ('62)	24-17-12W	80	5,556	5,556	2		Arbuckle	3,335	39
Bernard ('50)	10-19-11W	320	16,180	456,755	11		Lans.-K.C. Shawnee Lans.-K.C. Arbuckle	3,154	42
Bissell Point ('54)	10-19-13W		no report	4,549			Arbuckle	3,359	10
Blood Creek (revived) ('50)	9-18-13W	40	4,680	6,757	1		Arbuckle Lans.-K.C. Lans.-K.C.	3,719	5
							Arbuckle	3,276	38
							Arbuckle	3,639	33
							Lans.-K.C.	3,201	37
							Arbuckle	3,447	12
							Arbuckle	3,319	8
							Shawnee	2,866	38
							Lans.-K.C.	3,224	6
							Arbuckle	3,224	10
							Lans.-K.C.	3,276	5
							Lans.-K.C.	3,162	38

Abandoned during 1962

Table M.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd. 1962	Name	Depth	Thick- ness, ft.	Aver. Grav.
			during 1962	to end, 1962						
Fort Zarrah ('50)	30-19-12W	3,200	169,223	5,590,735	92	1	Lans.-K.C.	3,157	6	37
Fort Zarrah North ('51)	19-19-12W	100	3,241	134,893	2		Arbuckle	3,384		
Fort Zarrah West ('61)	25-19-13W	300	51,475	53,415	8		Lans.-K.C.	3,208	6	37
Frees ('60)	23-16-11W		no report	1,311			Arbuckle	3,436		
Galatia ('58)	11-16-15W	40	3,518	34,386	2		Arbuckle	3,395	2	37
Galatia East ('59)	12-16-15W		no runs	9,534			Arbuckle	3,366	9	41
Galatia North ('61)	2-16-15W	40	9,534	10,747	1	1	Lansing	3,193	3	40
Great Bend Airport ('52)	26-19-14W	320	45,692	666,344	8	7	Lans.-K.C.	3,152	8	42
Great Bend Southeast ('60)	1-20-13W		no report	629			Lans.-K.C.	3,180	5	39
Great Bend Southwest ('52)	25-19-14W	100	3,752	109,163	2	1	Lans.-K.C.	3,320	4	40
Great Bend Townsite ('53)	21-19-13W	1,200	71,486	1,040,780	31	2	Arbuckle	3,473		
Great Bend West ('51)	23-19-14W	40	1,115	77,447	1		Lans.-K.C.	3,192	7	39
Haberman ('59)	32-18-13W	380	59,824	96,842	12	2	Lans.-K.C.	3,322	4	
Hall-Gurney* ('31)	30-14-13W	600	93,644	2,690,784	33		Arbuckle	3,196	30	32
							Shawnee	3,441	4	
							Lans.-K.C.	3,332	5	36
							"Sooy"	3,400	2	43
							Arbuckle	3,066		
Hameke ('50)	17-19-11W	160	4,420	141,406	4		Arbuckle	3,065	32	40
Hameke Southeast ('50)	17-19-11W	80	4,682	111,070	2		Lans.-K.C.	3,089	7	40
Hameke West ('59)	18-19-11W	180	9,659	83,511	5		Lansing	3,078	3	41
Hammer ('40)	35-19-12W	1,100	165,355	2,934,817	42	2	Arbuckle	3,345	6	41
Harrison ('42)	18-20-13W	180	2,230	44,473	3	1	Lans.-K.C.	3,088		
Hawkins ('52)	3-19-13W	320	6,286	136,236	6	1	Arbuckle	3,348	8	
Heizer ('35)	16-19-14W	40	1,456	63,212	1		Arbuckle	3,403	6	37
Heizer Southwest ('52)	21-19-14W	300	4,682	104,053	3		Lans.-K.C.	3,520	16	40
Heizer West ('55)	17-19-14W	80	2,929	96,534	3	1	Lans.-K.C.	3,158	16	40
Herres ('55)	33-17-13W	260	14,289	244,117	10		Arbuckle	3,393		
Hiss ('36)	31-20-13W	900	25,946	1,076,454	13	1	Lans.-K.C.	3,228	2	39
Hiss East ('52)	33-20-13W	40	2,355	64,166	1		Lans.-K.C.	3,379		
Hiss South ('50)	31-20-13W	80	6,313	135,880	3		Arbuckle	3,552	11	38
Hiss Southeast ('48)	32-20-13W	160	12,224	238,021	6		Arbuckle	3,237	11	38
Hlavaty ('59)	31-17-14W	40	5,847	24,300	2		Lans.-K.C.	3,546		

Holsington ('38)	21-17-13W	640	56,667	1,924,414	31	Lans.-K.C.	3,222	4	37
Holsington East ('54)	23-17-13W	160	6,965	134,900	4	Arbuckle	3,440	5	37
Holsington Southwest ('54)	20-17-13W	80	3,556	48,543	2	Lans.-K.C.	3,140	5	37
Romestead West ('55)	21-18-13W		no report	2,511		Arbuckle	3,338	21	38
Hood ('59)	3-20-12W	80	2,266	10,645	2	Arbuckle	3,363	10	38
James (revived) ('54)	20-19-12W	80	11,018	16,313	2	Lansing	3,300	2	38
Jettie ('54)	27-20-14W	40	8,318	93,491	2	Lans.-K.C.	3,108	2	38
Kath ('60)	1-19-13W		Abandoned during 1962		Simpson	3,534	6		
Kimpler ('55)	31-18-11W	160	16,570	156,621	4	Arbuckle	3,364	6	
Klepper ('51)	2-19-11W	300	10,210	229,859	6	Lans.-K.C.	3,184	3	40
Klepper North ('59)	2-19-11W	40	729	6,223	1	Arbuckle	3,413	6	38
Klug ('46)	28-17-13W	40	1,760	64,052	1	Lans.-K.C.	3,220	3	38
Klug North ('48)	27-17-13W	120	6,877	205,521	3	Arbuckle	3,019	3	28
Klug Northwest ('57)	28-17-13W	80	14,080	68,897	2	Arbuckle	3,414	7	28
Klug West ('56)	33-17-13W	80	13,800	95,390	4	Arbuckle	3,377	10	37
Knop ('61)	9-19-12W	360	55,496	62,987	7	Lans.-K.C.	3,423	4	37
Koopman ('53)	23-19-13W	40	2,310	39,760	1	Lans.-K.C.	3,149	28	37
Kowalsky* ('41)	32-20-11W	1,400	109,981	2,539,421	42	Arbuckle	3,394	5	37
Kraft-Prusa* ('37)	10-17-11W	18,000	2,100,139	99,602,359	602	Lans.-K.C.	3,131	5	37
					12	Arbuckle	3,220	3	37
						Shawnee	3,398	11	49
						Douglas	3,378	4	42
						Lans.-K.C.	2,885		
						"Gorham"	2,997		
						Arbuckle	3,335		
						Reagan	3,281		43
						Precambrian	3,310		
Kraft-Prusa Northeast ('41)	36-16-11W	240	11,018	480,152	6	Lans.-K.C.	3,250	8	38
Kruckenbergl ('58)	13-19-15W	40	1,746	28,291	1	Arbuckle	3,351	6	
Lake Barton ('48)	21-18-13W	120	6,808	35,721	3	Arbuckle	3,562	12	35
Lake Barton West ('60)	29-18-13W	160	10,167	90,041	2	Arbuckle	3,143	12	35
Lanterman ('34)	15-19-11W	900	31,355		7	Lans.-K.C.	3,372	30	30
Larkin ('51)	10-17-14W	40	2,976	134,207	1	Arbuckle	3,152	57	36
Leoville ('50)	7-17-14W	700	88,400	1,112,396	10	Lans.-K.C.	3,402	14	34
					22	Arbuckle	3,109	3	35
Liberty ('52)	23-20-14W	40	3,765	25,619	1	Lans.-K.C.	3,235	6	37
McCauley ('49)	34-17-13W	40	1,210	25,176	1	Lans.-K.C.	3,280	6	37
Marquis ('60)	4-17-14W	40	1,546	9,694	1	Arbuckle	3,267	38	38
Mary Ida* ('50)	31-18-10W	400	23,075	634,535	9	Lans.-K.C.	3,464	2	
Mary Ida North ('52)	25-18-11W	80	17,839	77,740	4	Arbuckle	3,439	5	
Maybach ('62)	24-20-14W	40	389	389	1	Lans.-K.C.	3,341	4	35
						Arbuckle	3,276	4	35
						Lans.-K.C.	3,366	4	41
						Lans.-K.C.	3,198	4	41
						Arbuckle	3,033	5	36
						Arbuckle	3,272	7	36
						Lans.-K.C.	3,304	7	31
						Arbuckle	3,401	7	31

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Name	Depth, ft.	Thick- ness, ft.	Aver- age
			during 1962	to end, 1962					
Meadowside ('49)	24-18-11W	280	29,968	600,948	7	Lans.-K.C.	3,079	12	38
Meadowside Northwest ('59)	23-18-11W	20	2,148	12,564	1	Arbuckle	3,284		
Merten Northeast ('46)	36-18-15W	300	22,754	301,947	8	Arbuckle	3,299	4	31
Millard (revived) ('44)	29-16-14W	80	3,248	6,650	2	Arbuckle	3,214	4	35
Moses ('58)	14-20-14W	20	no runs	7,065	1	Lans.-K.C.	3,540	14	
Ney South ('58)	1-16-13W	140	13,189	183,747	7	Arbuckle	2,940	10	
Ney Southwest ('59)	2-16-13W	40	2,574	33,656	1	Topeka	3,120	3	41
Nuss* ('55)	5-16-14W	480	37,880	181,562	9	Lansing	3,093	10	41
Nuss South ('62)	9-16-14W	400	28,704	28,704	10	Lans.-K.C.	3,183	4	36
Odin ('48)	3-17-12W	320	12,959	358,481	3	Arbuckle	3,387	8	
Olmitz ('58)	1-18-15W		no report	9,348		Arbuckle	3,367	2	43
Otis-Albert* ('35)	30-18-15W	6,800	93,958	6,818,569	75	Arbuckle	3,392		
Pawnee Rock* ('36)	13-20-16W	40	831	248,227	1	Lans.-K.C.	3,321	2	31
Pendergast ('61)	27-19-15W	Abandoned during 1962				Arbuckle	3,295	4	36
Phillips ('57)	12-16-13W	240	17,663	178,060	7	Arbuckle	3,540	4	34
Popp ('58)	3-16-14W		no report	1,453		Reagan	3,236	4	
Prairie View ('50)	20-19-11W	360	20,825	435,555	8	Arbuckle	3,601	16	
Pritchard* ('44)	34-20-14W	1,500	94,326	3,596,096	37	Arbuckle	3,832	13	
Putnam ('51)	7-17-13W	40	1,842	79,389	1	Arbuckle	3,594	4	38
Putnam East ('60)	7-17-13W	40	2,315	6,620	1	Arbuckle	3,366	5	
Putnam West ('51)	1-17-14W	80	12,766	97,801	4	Arbuckle	3,352	8	38
Red Brick ('53)	23-19-13W	220	3,868	61,870	4	Arbuckle	3,240	7	
Redwing ('50)	31-17-12W	320	7,719	285,787	5	Lans.-K.C.	3,080	36	40
Redwing East ('55)	33-17-12W	380	39,874	499,877	13	Lans.-K.C.	3,253	8	35
Redwing Southeast ('60)	8-18-12W	160	41,677	72,951	5	Marmaton	3,625		
Redwing Southwest ('59)	1-18-13W	180	2,040	73,077	1	Simpson	3,455	3	
Reif South ('50)	31-16-12W	100	1,733	57,941	3	Arbuckle	3,448	2	33
Reimer ('56)	25-17-15W	40	715	15,749	1	Lans.-K.C.	3,448	7	40
Rick* ('36)	1-19-11W	600	32,986	1,356,639	14	Arbuckle	3,083	7	

	14-18-11W	1,300	61,074	1,938,947	25	1	Lans.-K.C.	3,208
Roesler* ('43)							Arbuckle	3,291
Rolling Green* ('60)	36-20-13W	80	14,551	35,681	2		Lansing	3,238
Rolling Green East* ('49)	30-20-12W	720	187,183	515,657	33	1	Arbuckle	3,491
Rusco ('61)	8-19-12W	40	4,221	11,803	1		Arbuckle	3,400
St. Peter ('44)	5-19-11W	1,280	213,107	2,716,689	46		Shawnee	2,910
							Lans.-K.C.	3,121
							Penn. congl.	3,391
St. Peter East ('56)	34-18-11W	520	3,628	960,269	2		Arbuckle	3,387
			72,396		21		Topeka	2,870
			8,039		2		Lans.-K.C.	3,116
Sandford ('51)	25-17-14W	80	2,378	62,059	1		Arbuckle	3,374
Sandrock ('51)	21-20-13W	640	16,598	523,904	11		Arbuckle	3,375
Sandrock North ('59)	21-20-13W	40	859	12,095	1	1	Lans.-K.C.	3,412
Shaeffer Northeast* (60)	35-20-13W	320	98,821	164,104	9		Lans.-K.C.	3,262
							Lans.-K.C.	3,259
South Bend ('54)	9-20-13W	100	2,105	120,887	3		Arbuckle	3,525
Stiles ('58)	7-16-12W	60	2,249	20,959	2		Lans.-K.C.	3,317
Sunny Valley ('49)	7-20-12W	160	9,495	370,456	5		Arbuckle	3,353
Sunny Valley Northeast ('54)	6-20-12W	260	22,539	234,831	7		Lans.-K.C.	3,230
Swader ('62)	29-20-13W	80	3,949	3,949	2		Arbuckle	3,422
Templing ('55)	23-16-14W	200	14,877	166,026	5		Lans.-K.C.	3,410
							Lans.-K.C.	3,332
Trapp* ('36)	23-15-14W	10,500	585,800	56,285,618	299	10	Arbuckle	3,402
							Shawnee	2,889
							Douglas	2,966
							Lans.-K.C.	3,062
Unruh ('45)	24-20-15W	640	11,177	242,221	3	5	Arbuckle	3,252
Unruh South ('59)	25-20-15W	20	4,677	23,873	1		Arbuckle	3,641
Webber ('62)	1-19-14W	40	806	806	1	1	Arbuckle	3,628
Weikert ('53)	36-18-12W	120	7,149	86,605	3		Lansing	3,224
Werner-Robl ('51)	30-19-11W	920	44,206	458,600	8		Lans.-K.C.	3,169
							Lans.-K.C.	3,106
Wondra North ('59)	10-17-12W	100	19,692	64,090	3		Arbuckle	3,364
Workman Northwest ('56)	21-20-12W	1,840	278,600	2,251,338	61	1	Arbuckle	3,305
							Lans.-K.C.	3,167
Workman West ('56)	28-20-12W						Arbuckle	3,438
Pools or fields abandoned							Arbuckle	3,434
Total Barton County		116,520	9,393,726	362,095,892	3,094	98		
BOURBON COUNTY								
Bronson-Xenia*	17-25-21E	1,000	8,319		32		"Bartlesville"	665
Davis-Bronson*	23-21E	480	8,660		34		"Bartlesville"	560
Hepier* ('17)	27-22E	420	81,273		42	1	"Bartlesville"	
Savonburg			no report					
Miscellaneous			370		2	1		
Total Bourbon County		1,900	98,622	1,141,809	110	2		
				recorded				

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells ab- d. 1962	Name	Depth ft.	Thick- ness, ft.	Aver- age
			during 1962	to end, 1962						
BUTLER COUNTY										
Allen-Robison ('43) Asmusson ('57)	1-26-3E	720	10,297		23	5	Mississippian	2,700		
	16-29-4E	680	11,219	1,193,309	31	7	Lansing	1,840	6	
							"Misener"	2,856	3	
							Arbuckle	2,695	5	
Augusta ('14)	21-28-4E	5,000	149,769		154	5	Lansing	1,700		34
			214,443	40,474,549			Kansas City	2,000		
							Marmaton	2,200		
							Ordovician	2,445		34
							Arbuckle	2,600		33
							Lansing	1,650		
							Kansas City	1,950		
Augusta North ('14)	28-27-4E	940	54,376	15,485,641	61		Ordovician	2,380		
							Arbuckle	2,410		
							Mississippian	2,726	1	40
							Simpson	3,050		
							"Chat"	2,965		
Ballard ('60)	6-25-3E	100	9,930	27,701	4		Mississippian	2,423	17	
	24-27-3E	40	1,454		2		Simpson	2,650	50	
	26-3E	40	1,236		1		"Chat"	2,716		
	15-26-4E	200	151,781	700,440	20	3	Simpson	2,692	19	40
	26-8E	960	33,401	4,121,665	37	15	"Bartlesville"	2,748	5	38
	29-29-4E	100	24,340	146,759	4		Mississippian	2,699	33	39
	100		28,283	2,158,574	31		"Chat"	2,825	14	38
Brandt-Sensenbaugh ('25)	22-28-7E	1,100	2,015	113,142	7		"Chat"	2,820		
	2-27-7E	90	698	1,909	1		Mississippian	2,850		42
	1-27-7E	40	716	13,016	1		"Bartlesville"	2,160		
	3-27-7E	60	5,375	6,610	2	2	Mississippian	1,790		36
	Butwick Northeast (revived) ('62)	80	15,405	36,055	8		Lans.-K.C.	3,000		
	32-29-6E	200	6,184		6	1	Ordovician	2,759		
	5-30-5E	100					Kansas City	2,471		
							Mississippian	2,498	25	40
Combs Northeast ('48) Dixon ('46)	27-29-5E	80	4,741	56,353	4		Mississippian	2,810		
	12-27-6E	40	807	20,698	1		"Bartlesville"	2,160		
							Kansas City	1,790		36
							Mississippian	3,000		
Douglass ('16)	21-29-4E	100	3,508		5	5	Lans.-K.C.	2,759		
							Ordovician	2,471		
							Kansas City	2,498	25	40
							Mississippian	2,120		37
							Kansas City	2,400		35
							Mississippian	2,530		34
							"Horton"	1,799		
							Lans.-K.C.			
Elbing East ('50)	27-23-4E	20	1,186	42,223	1		Viola			

El Dorado ('15)	29-25-5E	25, 830	3, 986, 234	253, 699, 572	1, 508	176	Admission	Leaving	630
							Kansas City	Kansas City	1, 700
							Viola	Viola	2, 000
							Simpson	Simpson	2, 500
							"Wilcox"	"Wilcox"	2, 510
							Arbuckle	Arbuckle	2, 600
							Simpson	Simpson	2, 550
Entz ('59)	23-26-4E	120	36, 620	151, 279	5	37	Mississippi	Mississippi	2, 515
Ferrell ('39)	28-28-8E	610	47, 102	1, 732, 486	29	4	Mississippi	Mississippi	2, 515
Ferrell South ('61)	33-28-8E	420	103, 562	123, 766	15	40	Mississippi	Mississippi	2, 647
Flint ('57)	6-24-6E	30	371	10, 027	1	38	Mississippi	Mississippi	2, 750
Four Mile Creek ('51)	5-28-3E	100	8, 519	282, 103	2	17	Simpson	Simpson	2, 443
Fox-Bush ('17)	24-29-5E	5, 350	231, 043	7, 184, 378	124	8	"Bartlesville"	"Bartlesville"	3, 069
Fox-Bush West ('53)	15-29-5E		no report	29, 260	7	40	"Bartlesville"	"Bartlesville"	2, 730
Garden ('25)	32-26-6E	240	4, 454		7	11	"Bartlesville"	"Bartlesville"	2, 837
Gelwick ('29)	27-4E	60	4, 421		1		Viola	Viola	2, 760
Hannah ('36)	29-8E	120	6, 400	80, 611	8		Kansas City	Kansas City	2, 924
Haverhill ('27)	34-27-5E	1, 080	52, 571	5, 018, 662	35	1	"Bartlesville"	"Bartlesville"	2, 120
Hazlett ('49)	24-5E	1, 600	66, 131	2, 171, 392	73	14	Mississippi	Mississippi	2, 700
Hickory Creek ('46)	11-28-5E	600	43, 346	1, 268, 219	16	1	"Bartlesville"	"Bartlesville"	2, 480
							Mississippi	Mississippi	2, 685
							Kansas City	Kansas City	2, 700
							"Bartlesville"	"Bartlesville"	2, 107
Jackson Southwest*, ('57)	33-25-8E	Included in Greenwood County							
Keighley ('25)	22-27-7E	1, 440	64, 258		60	3	"Bartlesville"	"Bartlesville"	2, 608
							"Bartlesville"	"Bartlesville"	2, 650
Kramer-Stern ('26)	3-28-6E	1, 540	149, 646		60	1	Simpson	Simpson	3, 148
							Lans.-K.C.	Lans.-K.C.	3, 000
							Arbuckle	Arbuckle	3, 040
Latham ('59)	14-29-7E	60	13, 260	68, 626	5	1	Mississippi	Mississippi	2, 788
Leon ('22)	19-27-6E	620	20, 792	3, 741, 869	27	14	"Bartlesville"	"Bartlesville"	3, 148
							"Chat"	"Chat"	2, 660
							Viola	Viola	3, 050
Lietzke ('62)	3-28-5E	30	169	169	1	1	Simpson	Simpson	8
Long ('49)	15-26-7E	30	1, 195	29, 855	1	33	Mississippi	Mississippi	2, 780
Long Northeast ('53)	11-26-7E	30	1, 199	17, 014	1	5	Mississippi	Mississippi	2, 753
McCaig ('59)	13-28-6E	40	3, 205	16, 380	2	40	"Bartlesville"	"Bartlesville"	2, 700
							Mississippi	Mississippi	2, 780
Mellor ('57)	1-24-3E	120	8, 564	139, 301	9	29	Mississippi	Mississippi	2, 442
Mellor East ('58)	7-24-4E	80	2, 501	60, 421	2	6	Mississippi	Mississippi	2, 492
Mt. Tabor ('53)	36-29-4E	340	10, 800	176, 289	10	8	"Bartlesville"	"Bartlesville"	2, 757
Muddy Creek ('50)	13-29-4E	580	47, 250	719, 165	32	40	"Bartlesville"	"Bartlesville"	2, 813
Murdock ('52)	23-23-3E	40	746	12, 297	1	43	Mississippi	Mississippi	2, 709
Overstreet ('62)	19-26-8E	60	815	815	2	9	Kansas City	Kansas City	2, 052
Parsley ('49)	3-26-3E	100	2, 935	132, 141	6	48	Mississippi	Mississippi	2, 700
Paul ('59)	26-23-3E	40	673	5, 635	2	31	Mississippi	Mississippi	2, 730
Paulson ('58)	35-23-3E	1, 500	227, 109	1, 361, 615	95	10	Mississippi	Mississippi	2, 709
Pierce ('26)	28-25-4E	1, 440	109, 119		60	2	"Chat"	"Chat"	2, 519
Plum Grove ('58)	24-24-4E		no report	111	3	43	Mississippi	Mississippi	2, 550
Potwin ('17)	31-24-4E	3, 500	85, 111	8, 951, 260	90	1	Kansas City	Kansas City	2, 550
							Mississippi	Mississippi	2, 550
Reynolds-Schaffer ('22)	9-27-6E	2, 800	113, 140		69	1	Kansas City	Kansas City	2, 550
							Mississippi	Mississippi	2, 660
							Kansas City	Kansas City	2, 375
							Mississippi	Mississippi	2, 780
							Viola	Viola	3, 141

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd., 1962	Producing zone		
			during 1962	to end, 1962			Name	Depth, ft.	Thick- ness, ft.
Rombold ('49)	4-26-3E	30	96	57,865	1	4	Mississippian	2,770	39
Salter ('46)	23-28-3E	360	39,522	1,674,311	20		Simpson	3,000	
Shinn ('46)	19-29-8E	210	51,580	1,168,571	21		Mississippian	2,766	
Shinn Northeast ('56)	17-29-8E	160	18,060	133,093	3				
Skaer ('61)	21-27-3E	80	9,277	24,243	1		Simpson	3,036	5 32
			7,190		1		Kansas City	2,339	
Smock-Sluss ('17)	2-27-5E	320	113,871		57		"Bartlesville"	2,700	35
							Viola	3,000	
Snowden-McSweeney ('30)	34-28-6E	1,410	172,497		54		Lans.-K.C.	2,060	35
							"Peru"	2,404	
							"Bartlesville"	2,810	
Steinhoff ('26)	28-29-6E	220	25,318		7	1	Mississippian	2,833	
Steinhoff East ('60)	26-29-6E	40	163	2,177	2		Mississippian	2,803	8 35
Towanda ('48)	5-26-4E	300	161,494	3,259,073	35	1	Kansas City	2,118	
							Mississippian	2,400	
Whitewater ('49)	32-25-4E	160	26,029	517,797	11		Viola	2,460	37
Whitewater East ('61)	33-25-4E	80	17,237	18,104	2		Viola	2,625	37
Wiebe ('59)	30-23-6E	30	238	3,255	1	1	Mississippian	2,461	33 40
Young ('20)	27-26-7E	1,000	80,067		46		Lansing	1,592	6 34
Miscellaneous		220	32,972		30+	6	Mississippian	2,650	
Total Butler County		67,530	7,148,319	460,037,233	3,135	279			
CHASE COUNTY									
Altemus	26-18-8E		Abandoned during 1962		13		"Bartlesville"	2,250	
Atyeo-Pixlee* ('23)	7-22-10E	500	28,460				Lans.-K.C.		
Bazaar ('51)	36-20-8E		Abandoned during 1962				Admire		
Elk ('30)	21-19-6E		Abandoned during 1962				Viola	2,052	21 29
Koegeboehn ('59)	19-19-6E	80	3,417	17,135	3		Viola	1,960	9 29
Koegeboehn North ('61)	8-19-6E	40	2,361	2,804	1		"Bartlesville"	2,500	
Teeter* ('20)	16-23-9E	720	52,295		36				
Total Chase County		1,340	85,533	845,433	53				
			recorded						
CHAUTAUQUA COUNTY									
Berlin ('30)	32-11E	40	2,020		2	1	Marmaton	1,780	
Borroum ('26)	20-34-9E	220	3,508		6		Marmaton	1,924	4 40
Cedarvale* ('53)	9-34-8E	280	22,090	30,127	7		Mississippian	2,365	10
Elgin ('17)	34-10E	3,400	43,361		155		"Peru"	1,520	
Elk City*	32-13E	40	192		1		"Burgess"	1,360	
Frazier ('27)	33-13E	120	903		4		"Peru"	1,520	
Hale-Inge* ('07)	32-12E	1,900	14,919		48		"Peru"	1,160	
Hylton (revived) ('28)	13-32-9E	40	1,742		1		Arbuckle	2,443	

Oil and Gas Developments, 1962

Kingston ('26)	18-32-11E	40	76	1	"Chat"	1,850
Landon-Floyd ('36)	23-32-10E	800	63,199	29	Arbuckle	2,176
Leniton	33-10E	6,400	42,773	64	Mississippian	2,000
McAllister ('25)	28-32-10E	60	3,891	2	"Peru"	
McNown ('26)	31-32-10E	40	733	1	Arbuckle	2,280
Niotaze	34-13E	1,340	7,360	61	Mississippian	690
				10	"Redd"	825
Oliver ('35)	32-11E	680	7,664	11	"Peru"	
Peru-Sedan ('00)	34-11E	24,000	588,284	1,576	Marmaton	1,200
Wayside-Bavana* ('04)	34-13E	460	2,836	28	Arbuckle	2,000
					Mississippian	575
Wiggam	34-32-10E	120	801	3	"Wayside"	700
Miscellaneous		60	4,969	3+	"Weiser"	1,200
Total Chautauqua County		40,040	811,321	2,000	"Bartlesville"	1,600
			52,251,292	27	"Weiser"	
CHEYENNE COUNTY						
Alexander ('59)	13-4-38W	40	no runs	1	Marmaton	4,669
Ken ('59)	16-2-37W	20	no runs	1	Cherokee	4,762
Little Beaver Creek ('62)	36-4-37W	40	3,185	1	Lans.-K.C.	4,445
Rueb ('58)	13-3-42W	40	4,145	1	Lansing	4,537
Rueb South ('59)	36-3-42W		no report		Lansing	4,445
Total Cheyenne County		140	7,330	4		
			44,716			
CLARK COUNTY						
Ashland ('51)	35-32-23W	180	9,855	6	Lans.-K.C.	4,673
Cavalry Creek ('55)	3-31-21W		no report		Viola	6,526
Clark Creek ('59)	8-35-22W	40	no runs	1	Mississippian	5,195
Harper Ranch ('53)	9-34-21W	2,600	100,782	31	Morrowan	5,630
McKinney* ('50)	2-34-26W	640	6,654	18	Morrowan	5,437
Morrison Northeast ('54)	10-32-21W	80	248	3	Mississippian	5,762
Snake Creek ('52)	21-34-21W	2,400	42,420	29	Morrowan	5,193
Snake Creek East ('56)	24-34-21W		no report		Morrowan	5,452
Tuttle West ('57)	10-35-21W	40	600	2	Morrowan	5,480
Total Clark County		5,980	160,559	90	Morrowan	5,625
			2,359,517			
CLAY COUNTY						
Griffith ('57)	3-9-4E	60	8,085	3	Mississippian	1,908
			76,139			30
COFFEY COUNTY						
Crandall ('53)	6-23-16E	40	357	2	Mississippian	1,022
						5

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd. 1962	Name	Sp. D ₂	Thick- ness, ft.	Aver- age
			during 1962	to end, 1962						
Dunaway* ('22)	23-22-13E	620	5,371		14		"Burgess"	1,850		
Evans* ('38)	23-15E		no report				Mississippian	1,878		
Finnerty ('53)	12-21-13E	320	6,321		6		Arbuckle	2,200		
Hatch ('35)		40	155		1		"Peru"	1,382	10	
Leroy North	22-16E	340	4,107		11		"Burgess"	1,728	11	
Neosho Falls-Leroy* ('05)	35-22-16E	2,100	26,866		87	1	"Squirrel"	1,825		
"Parmely"	29-22-17E		no report				"Squirrel"	965		
Virgil North*	22-23-13E	1,440	39,621		59		"Bartlesville"	1,585		
Winterscheid*	23-14E	1,640	13,786		33		Mississippian	1,838		
Miscellaneous			none				"Peru"	1,170		
Total Coffey County		6,540	96,584	2,613,776 recorded	213		"Bartlesville"	1,630		
							Mississippian	1,750		
COMANCHE COUNTY										
Beals ('55)	34-17W	80	7,667	7,667	2		Mississippian	4,880		
Glick* ('57)	31-30-16W	320	6,865	14,346	10		Lans.-K.C.	4,399	12	36
McMoran ('61)	25-34-16W	40	no runs	155	1		Mississippian	5,066	5	
Mule Creek ('55)	5-31-18W	100	11,531	97,634	3		Mississippian	5,106	36	42
Nescatunga ('60)	22-32-18W	80	10,637	12,746	2		Viola	5,600	17	
Perry Ranch* ('58)	12-32-16W	40	1,552	8,887	2		Mississippian	4,785		
Protection ('62)	24-32-20W	40	1,767	1,767	1		Mississippian	5,097	35	
Robbins Ranch ('53)	23-31-16W		no report	5,723			Mississippian	4,915	41	
Total Comanche County		700	40,019	148,925	21					
COWLEY COUNTY										
Albright ('56)	3-34-5E	1,800	67,610	651,347	36		Mississippian	3,126	10	
Albright North ('62)	22-33-5E		no report		1		"Hoover"	1,656	30	
Atlanta ('58)	11-30-6E	400	45,757	302,055	17		Shawnee	1,631	7	
							"Stalaker"	1,816	4	
							Kansas City	2,174	6	
							Mississippian	2,869	28	
							Arbuckle	3,274		

Bornstorff ('58)	33-31-4E	200	25,900	137,299	9	1	"Bartlesville"	3,043	18
Biddle ('22)	7-32-5E	1,280	70,779		55	1	Kansas City	2,000	20
							"Layton"	2,300	
Bolack ('61)	21-32-6E	120	47,996	72,203	5		"Bartlesville"	2,878	14
Box ('48)	28-30-7E	600	11,734	297,756	13		"Cattlemen"	2,828	6
Brandenburg ('55)	3-35-3E	40	5,863	38,866	1		Mississippi	2,840	15
Brown ('44)	13-31-7E	80	8,612		6		Simpson	3,664	7
Bruce ('50)	9-30-4E	120	9,013	104,143	3		Kansas City	2,100	
Burden ('26)	31-31-6E	1,580	46,283		53		Arbuckle	3,306	25
							"Layton"		
							"Peru"		40
Cabin Valley ('52)	31-33-6E	660	69,070	1,522,008	38	3	"Bartlesville"	2,900	35
Canfield ('52)	13-34-3E	220	14,871	315,972	9	5	"Layton"	2,188	9
							Lans.-K.C.	2,651	4
							"Bartlesville"	2,839	42
Cedarvale* ('53)	9-34-8E	140	18,998	32,967	5		Marmaton	3,375	
							Mississippi	1,924	4
Cedarvale West ('62)	17-34-8E	40	2,004	2,004	1		Mississippi	2,365	10
Church ('54)	13-31-6E	40	1,068	22,197	1		"Cattlemen"	2,243	6
Churchill Northeast ('55)	18-31-3E	40	1,473	17,304	1		Mississippi	2,935	12
Combs* ('47)	5-30-5E	480	30,383	761,260	18	1	Kansas City	2,420	34
							"Bartlesville"	2,823	20
Copeland ('52)	5-35-4E	Abandoned during 1962					Mississippi	2,850	40
Couch ('37)	13-30-5E	1,380	50,167	2,769,551	45	11	Mississippi	3,211	13
Countryman ('25)	4-33-7E	800	22,860		16		"Bartlesville"	2,800	15
							"Layton"	1,950	12
Countryman North ('62)	27-32-7E	no report			1		Mississippi	2,870	34
David ('35)	35-30-4E	2,660	1,105,012	5,436,372	149		"Layton"	2,058	
							Arbuckle	2,900	40
Deichman ('41)	24-31-4E	580	48,458	587,499	18	1	"Bartlesville"	3,463	
							Mississippi	2,900	35
Dexter ('14)	33-6E	120	1,997		3		Mississippi	2,750	
Donelson ('55)	21-34-7E	40	910	4,023	1		Kansas City	2,890	20
Eastman ('24)	5-31-6E	1,100	29,627		27	3	"Bartlesville"	2,411	
Elrod ('26)	4-32-5E	160	8,056		3		"Layton"	3,360	10
Enterprise Southwest ('53)	3-34-3E	40	1,068	10,094	1		"Bartlesville"	1,803	4
Estep ('58)	21-34-6E	40	9,570	38,370	1		"Stalnakar"	3,130	8
Estep West ('59)	29-34-6E	40	1,174	3,167	1		Mississippi	2,190	13
Estes ('54)	12-32-6E	1,420	37,083	696,332	44	2	"Layton"	2,694	19
Falls City ('60)	17-35-7E	260	5,147	29,135	4		"Bartlesville"	3,000	20
Falls City ('37)	20-32-5E	800	80,022	5,311,178	38		"Bartlesville"	3,000	8
Frog Hollow East ('41)	15-32-5E	420	50,561	493,357	14		Mississippi	3,077	20
							"Cleveland"	2,984	2
Geuda Springs ('25)	5-34-3E	2,200	74,371	2,008,370	56	4	"Bartlesville"	3,300	14
							"Chat"	3,345	25
							"Bartlesville"	3,350	35
Gibson ('41)	29-34-3E	1,280	151,376	3,418,583	87	3	"Bartlesville"	3,400	12
							Mississippi	3,774	6
							Simpson	3,780	11
							Arbuckle		

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd. 1962	Producing zone			Aver. thickness, ft.
			during 1962	to end, 1962			Name	Depth, ft.	Thick- ness, ft.	
Graham ('24)	3-33-3E	2,320	175,254	4,160,013	75		"Layton"	2,550	15	39
							"Bartlesville"	3,213	50	
Grand Summit* ('26)	4-31-8E	40	321		1		Mississippian	3,284	16	
Grouse Creek ('51)	16-30-7E	160	3,030	47,461	4		Arbuckle	3,518	5	
Hackney ('56)	19-33-4E		Abandoned during 1962				Kansas City	2,000	19	37
Harvey ('52)	23-34-3E	800	49,255	1,438,762	40	3	Mississippian	3,246	12	
							"Layton"	2,574	18	33
Henderson ('42)	26-32-3E	40	567	137,834	1		"Bartlesville"	3,278		
							Kansas City	2,690	9	
Higby ('57)	31-34-6E	100	10,185	27,382	2		Arbuckle	3,419		
Hittle ('26)	28-31-4E	600	26,662	9,880,721	24	3	Mississippian	3,180	10	
							Kansas City	2,400	20	
Kanok ('56)	15-35-5E	60	5,822	76,491	3		Arbuckle	3,280		
Lady ('60)	35-34-6E	40	1,409	5,434	1		Mississippian	3,172	4	
Larcom ('61)	9-34-4E	40	7,953	9,089	1		"Hoover"	1,421	4	39
McKay ('51)	17-35-4E	880	64,410	694,777	35		"Layton"	2,418	4	
Maddix North ('57)	12-33-5E	460	65,289	319,853	15		"Bartlesville"	3,314		
Mahannah ('59)	6-30-8E	80	8,913	57,813	3		Mississippian	3,014	13	
Mansur ('49)	25-31-6E	40	654	120,728	1		"Layton"	2,170	16	
Maple ('58)	2-30-3E		Abandoned during 1962				"Bartlesville"	3,067	6	
Murphy* ('33)	7-35-3E	1,180	20,073		37		"Bartlesville"	3,450	10	
Nigger Creek ('51)	22-34-3E	40	1,135	14,380	1		"Chat"	3,500		
Olsen ('21)	1-35-7E	140	12,655	126,060	6		"Bartlesville"	3,281		
Otto ('27)	25-34-6E	80	1,073		2	1	"Bartlesville"		6	
							"Stalnaker"	1,845	6	
Peck ('58)	9-35-4E		no report	935			"Chat"	3,017	50	
Posey ('56)	21-33-4E	360	62,613	297,050	14		"Bartlesville"	2,464	6	
							"Layton"	2,751	10	
							"Cleveland"	2,953	4	
							"Pruett"	3,164	14	
Rahn ('39)	13-34-5E	1,400	92,463	3,027,526	31	2	Mississippian	2,900	30	
Rahn Northeast ('49)	27-33-6E		no report	71,193			"Bartlesville"	2,902	30	
Rainbow Bend* ('23)	20-33-3E	2,000	174,823	18,222,167	81	15	"Bartlesville"	3,200	50	
							"Burgess"	3,550		
							Arbuckle	3,358	6	
Rauckman ('56)	18-34-3E	60	3,027	50,957	3		"Bartlesville"	3,358	6	
Rock ('23)	15-30-4E	3,960	479,855	7,846,775	122	3	"Bartlesville"	2,800	30	
Rock Southwest ('60)	26-31-3E	80	42,975	77,119	2	1	"Layton"	2,480	7	
Salem ('57)	2-31-5E	40	2,769	20,178	1		Mississippian	3,050	2	34
School Creek North ('53)	10-32-7E	740	56,340	1,507,540	54		"Layton"	2,114	6	
							"Bartlesville"	2,826	9	
Seacat ('44)	26-33-4E	480	8,394	154,359	9		"Layton"	2,385		
							Mississippian	3,100	43	

Shannon ('59)	26-31-5E	920	412,294	1,214,707	54	"Layton"	2,314
Slick-Carson* ('24)	19-32-3E	420	18,439	7,797,906	16	"Layton"	2,600
						"Bartlesville"	3,150
Smith ('17)	31-3E	160	3,619		3	Arbuckle	3,450
State ('26)	15-32-4E	280	14,191		10	"Layton"	2,400
						Arbuckle	3,050
Stayton ('49)	32-32-4E	160	1,590	151,786	4	"Bartlesville"	3,300
Stayton South ('53)	5-33-4E	200	10,188	74,218	5	"Bartlesville"	3,100
Thurlow ('27)	8-33-3E		no report			Simpson	3,165
Trees ('35)	19-30-4E	600	8,466		19	"Bartlesville"	3,500
Turner ('37)	30-32-6E	120	4,173	311,061	3	"Layton"	2,875
Turner North ('61)	7-32-6E	600	66,711	119,867	9	"Bartlesville"	2,232
			14,860		4	Lans.-K.C.	2,988
			31,451		9	Mississippian	10
Turner West ('52)	25-32-5E	40	917	13,564	1	Mississippian	3,032
Udall ('26)	28-30-3E	100	3,795		3	Shawnee	3,054
						Arbuckle	2,850
Waldschmidt ('57)	8-34-6E	400	26,309	186,332	10	"Stalnaker"	1,821
						Mississippian	3,080
Walnut Bend ('40)	11-34-4E	440	14,180		6	Mississippian	8
Walnut Bend North ('56)	36-33-4E		no report	187		Mississippian	3,188
Weathered ('35)	28-31-3E	320	26,142	3,069,312	14	"Stalnaker"	2,080
					1	Lans.-K.C.	2,480
						"Bartlesville"	3,018
						Mississippian	3,020
						Arbuckle	3,250
Werner ('56)	31-32-6E	320	26,431	171,838	8	"Layton"	2,460
						Mississippian	3,074
Wilmot-Floral ('25)	31-5E	260	7,198		5	"Cattleman"	2,880
					1	"Bartlesville"	2,910
Windsor ('57)	6-32-8E	320	9,916	153,307	14	"Layton"	1,935
Windsor Southeast ('58)	7-32-8E	40	304	12,747	1	"Layton"	1,858
Windsor Southwest ('58)	7-32-8E	200	7,354	117,299	13	"Layton"	1,894
Winfield ('14)	32-5E	1,320	70,942		80	Admire	600
						"peacock"	1,400
						"Layton"	2,300
Winfield South ('45)	1-33-4E	300	33,684	160,993	11	"Bartlesville"	3,050
Miscellaneous		40	8,722		1+	Arbuckle	3,300
Total Cowley County		44,960	4,354,668	112,396,894	74	"Hoover"	1,400
					2		38
CRAWFORD COUNTY							
"Fairview School"	2-28-23E		Included with miscellaneous		2	"Bartlesville"	
Hepler* ('17)	27-22E	80	3,658		7	Cherokee	
"Houston" ('47)	3-31-22E	400	1,811		17	"Bartlesville"	
McCune ('29)	30-22E	1,800	13,184		89	"Bartlesville"	425
St. Paul-Walnut*	28-21E	560	1,968		28		

Table M—Oil production in Kansas during 1962, continued

TABLE 22.—Oil production in Arkansas during 1962, continued.									
Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Name	Depth, ft.	Thick- ness, ft.	Aver- age
			during 1962	to end, 1962					
Walnut Southeast	28-22E	1,280	15,682		64	"Bartlesville"	400	15	
Miscellaneous		220	3,936		17				
Total Crawford County		4,380	40,239	1,005,106 recorded	222	I			
DECATUR COUNTY									
Adell Northwest ('52)	34-5-27W	640	112,430	1,216,436	14	Lans.-K.C.	3,664	54	39
Feely ('52)	2-5-27W	180	6,847	252,094	7	Lans.-K.C.	3,590	14	39
Hardisty ('52)	22-5-27W	640	23,618	446,814**	7	Lans.-K.C.	3,642	15	39
Jennings ('51)	25-4-27W	860	76,321	668,402	18	Wabaunsee	3,156	7	38
						Lans.-K.C.	3,478	4	35
Jennings Northwest ('61)	10-4-27W	40	no runs	570	1	Lansing	3,576	4	40
Jennings Southeast ('57)	6-5-26W	40	1,579	10,764	1	Lans.-K.C.	3,581	4	34
Jording (revived) ('62)	23-2-30W	40	2,706	2,706	1	Lansing	3,848	14	40
Jorn ('55)	29-2-28W	220	10,058	97,659	7	Lans.-K.C.	3,562	8	32
Lawson ('61)	11-1-26W	40	8,621	15,706	1	"Penn sand"	3,558	3	32
Monaghan ('52)	15-2-27W	80	6,167	91,855	2	Lans.-K.C.	3,514	55	32
Olive ('61)	12-2-28W	200	26,688	26,688	5	Lansing	3,734	4	37
Pollnow ('53)	4-3-29W	700	68,253	572,839	16	Lans.-K.C.	3,779	7	37
Prairie Dog ('59)	29-5-29W	40	4,065	19,722	1	Lansing	3,863	5	35
Ung ('62)	25-2-30W	80	5,932	5,932	2	Lans.-K.C.	3,805	1	35
Van Vleet ('56)	9-1-27W	Abandoned during 1962			1	Lans.-K.C.	3,356	11	28
Vavroch ('59)	4-4-28W	640	114,525	227,355	8	Lans.-K.C.	3,699	8	
Warner ('56)	11-1-27W	640	34,868	406,741	20	Lans.-K.C.	3,324	17	35
						"Penn sand"	3,483		
Pools or fields abandoned									
Total Decatur County		5,080	502,678	4,065,927**	111				
DICKINSON COUNTY									
Ash Grove ('54)	5-15-1E	160	14,455	187,347	5	Mississippian	2,569	3	
Bonaccord ('43)	30-14-1E		no report	44,108		"Burgess"	2,483	2	
Bonaccord Northeast ('56)	29-14-1E	60	2,649	38,545	3	"Burgess"	2,502	3	
Dobbs ('60)	22-19-3E	Combined with Lost Springs							
Lost Springs* ('27)	16-4E	2,020	29,292		46	"Chat"	2,300		
Total Dickinson County		2,240	46,396	1,618,998 recorded	54				

DOUGLAS COUNTY

Baldwin* ('19)	12-15-20E	1,500	42,224	95	"Squirrel"	800
Eudora South ('29)	13-21E	10	70	1	"Squirrel"	700
Total Douglas County		1,510	42,294	96		
			273,343			
			recorded			

EDWARDS COUNTY

Belpre ('42)	8-25-16W	40	93	1	Lans.-K.C.	3,800
Belpre Southwest ('62)	18-25-16W	40	1,634	1	Mississippian	4,278
Bradbridge ('48)	2-24-16W	120	2,497	3	Mississippian	4,020
Bradbridge Southwest ('59)	11-24-16W	40	Abandoned during 1962		Arbuckle	4,120
Carpenter Southeast ('59)	31-23-16W	40	1,932	1	Mississippian	4,247
Edstaff ('55)	12-25-16W	220	1,089	6	Penn. congl.	4,230
Embry ('53)	23-24-16W	240	4,320	9	Lans.-K.C.	3,789
English ('59)	31-25-16W	40	4,911	1	"Kinderhook"	4,292
Enlow ('53)	9-24-16W	240	10,613	7	Mississippian	4,479
Fatzer ('59)	14-26-17W	40	274	1	Lans.-K.C.	3,736
Groner ('62)	5-23-20W	Abandoned during 1962	1,337		Mississippian	4,504
Hawley ('59)	7-24-16W	no runs	827		Mississippian	4,525
Kirk ('55)	26-26-16W	80	4,786	2	Mississippian	4,241
McClanahan ('58)	2-26-18W	80	36,657	2	"Kinderhook"	4,481
Quaker* ('58)	35-26-19W	40	55,948	2	Penn. congl.	4,612
Sturgeon ('54)	33-26-18W	80	766	1	Lans.-K.C.	4,223
			57,633	2	Lans.-K.C.	4,721
Trousdale ('56)	21-26-16W	180	10,630	7	Viola	4,486
Trousdale North ('58)	8-26-16W	120	147,799	2	Cherokee	4,486
Trousdale Northeast ('58)	15-26-16W	80	2,189	4	Mississippian	4,492
Wayne ('56)	28-24-17W	Abandoned during 1962	5,375	3	Mississippian	4,458
Wil* ('57)	26-25-16W	1,540	516,433	82	"Kinderhook"	4,392
Will West ('60)	29-25-16W	40	no runs	1	Mississippian	4,368
Pools or fields abandoned			879		"Kinderhook"	4,324
Total Edwards County		3,260	116,211	134	Kansas City	4,032
			3,433,338**	5	Mississippian	4,365

ELK COUNTY

Arbuckle	31-9E	360	6,619	8	"Burgess"	2,250
Bunyard	29-28-12E	40	398	2	"Stalnaker"	1,060
Bush-Denton ('20)	4-30-9E	860	19,852	69	"Peru"	2,135
Clubine	30-10E	40	873	1	"Burgess"	2,300
Collyer ('24)	30-30-11E	220	6,929	11	"Layton"	1,286
					Kansas City	1,518
					Fort Scott	

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells ab- d., 1962	Name	Pro- ducing zone	Thick- ness, ft.	Aver- age
			during 1962	to end, 1962						
Graham ('24)	3-33-3E	2,320	175,254	4,160,013	75		"Layton"	2,550	15	39
							"Bartlesville"	3,213	50	
Grand Summit* ('26)	4-31-8E	40	321		1		Mississippian	3,284	16	
Grouse Creek ('51)	16-30-7E	160	3,030	47,461	4		Arbuckle	3,518	5	
Hackney ('56)	19-33-4E		Abandoned during 1962				Kansas City	2,000	19	37
Harvey ('52)	23-34-3E	800	49,255	1,438,762	40	3	Mississippian	3,246	12	
							"Layton"	2,574	18	33
Henderson ('42)	26-32-3E	40	567	137,834	1		"Bartlesville"	3,278		
							Kansas City	2,690	9	
Higby ('57)	31-34-6E	100	10,185	27,382	2		Arbuckle	3,419		
Hittle ('26)	28-31-4E	600	26,662	9,880,721	24	3	Mississippian	3,180	10	
							Kansas City	2,400	20	
Kanok ('56)	15-35-5E	60	5,822	76,491	3		Arbuckle	3,280		
Lady ('60)	35-34-6E	40	1,409	5,434	1		Mississippian	3,172	4	
Larcom ('61)	9-34-4E	40	7,953	9,089	1		"Hoover"	1,421	4	39
McKay ('51)	17-35-4E	880	64,410	694,777	35		"Layton"	2,418	4	
Maddix North ('57)	12-33-5E	460	65,289	319,853	15		"Bartlesville"	3,314		
Mahannah ('59)	6-30-8E	80	8,913	57,813	3		Mississippian	3,014	13	
Mansur ('49)	25-31-6E	40	654	120,728	1		"Layton"	2,170	16	
Maple ('58)	2-30-3E		Abandoned during 1962				"Bartlesville"	3,067	6	
Murphy* ('33)	7-35-3E	1,180	20,073		37		"Bartlesville"	3,450	10	
Nigger Creek ('51)	22-34-3E	40	1,135	14,380	1		"Chat"	3,500		
Olsen ('21)	1-35-7E	140	12,655	126,060	6		"Bartlesville"	3,281		
Otto ('27)	25-34-6E	80	1,073		2	1	"Bartlesville"	1,845	6	
							"Stalnaker"	3,017	50	
Peck ('58)	9-35-4E		no report	935			"Chat"			
Posey ('56)	21-33-4E	360	62,613	297,050	14		"Bartlesville"	2,464	6	
							"Layton"	2,751	10	
							"Cleveland"	2,953	4	
							"Prue"	3,164	14	
Rahn ('39)	13-34-5E	1,400	92,463	3,027,526	31	2	Mississippian	2,900	30	
Rahn Northeast ('49)	27-33-6E		no report	71,193			"Bartlesville"	2,902		
Rainbow Bend* ('23)	20-33-3E	2,000	174,823	18,222,167	81	15	"Bartlesville"	3,200	50	
							"Burgess"	3,550		
							Arbuckle	3,358	6	
Rauckman ('56)	18-34-3E	60	3,027	50,957	3		"Bartlesville"	3,358		
Rock ('23)	15-30-4E	3,960	479,855	7,846,775	122	3	"Bartlesville"	2,800	30	
Rock Southwest ('60)	26-31-3E	80	42,975	77,119	2	1	"Layton"	2,480	7	
Salem ('57)	2-31-5E	40	2,769	20,178	1		Mississippian	3,050	2	34
School Creek North ('53)	10-32-7E	740	56,340	1,507,540	54		"Layton"	2,114	6	
							"Bartlesville"	2,826	9	
Seacat ('44)	26-33-4E	480	8,394	154,359	9		"Layton"	2,385		
							Mississippian	3,100	43	

Shannon ('59)	26-31-5E	920	412,294	1,214,707	54	"Layton"	2,314	
Slick-Carson* ('24)	19-32-3E	420	18,439	7,797,906	16	"Layton"	2,600	
						"Bartlesville"	3,150	
Smith ('17)	31-3E	160	3,619		3	Arbuckle	3,450	
State ('26)	15-32-4E	280	14,191		10	"Layton"	2,400	12
						Arbuckle	3,300	
Stayton ('49)	32-32-4E	160	1,590	151,786	4	"Bartlesville"	3,100	8 33
Stayton South ('53)	5-33-4E	200	10,188	74,218	5	"Bartlesville"	3,165	23 40
Thurlow ('27)	8-33-3E		no report			Simpson	3,500	5
Trees ('35)	19-30-4E	600	8,466		19	"Bartlesville"	2,875	25
Turner ('37)	30-32-6E	120	4,173	311,061	3	"Layton"	2,232	15
Turner North ('61)	7-32-6E	600	66,711	119,867	9	"Bartlesville"	2,988	11 39
			14,860		4	Lans -K.C.		10
Turner West ('52)	25-32-5E	40	31,451	13,564	9	Mississippian	3,032	
Udall ('26)	28-30-3E	100	917		1	Mississippian	3,054	38
			3,795		3	Shawnee		38
Waldschmidt ('57)	8-34-6E	400	26,309	186,332	10	Arbuckle	2,850	
						"Stalnaker"	1,821	2
Walnut Bend ('40)	11-34-4E	440	14,180		6	Mississippian	3,080	12
Walnut Bend North ('56)	36-33-4E		no report	187		Mississippian		
Weathered ('35)	28-31-3E	320	26,142	3,069,312	14	"Stalnaker"	3,188	8
					1	Lans.-K.C.	2,080	15
						"Bartlesville"	2,480	12
						Mississippian	3,018	6
						Arbuckle	3,020	8
Werner ('56)	31-32-6E	320	26,431	171,838	8	"Layton"	3,250	5
						Mississippian	2,460	13
Wilmot-Floral ('25)	31-5E	260	7,198		5	"Cattleman"	3,074	8
					1	"Bartlesville"	2,880	
Windsor ('57)	6-32-8E	320	9,916	153,307	14	"Layton"	2,910	
Windsor Southeast ('58)	7-32-8E	40	304	12,747	1	"Layton"	1,935	10
Windsor Southwest ('58)	7-32-8E	200	7,354	117,299	13	"Layton"	1,858	18
Winfield ('14)	32-5E	1,320	70,942		80	Admire	1,894	10
						"Peacock"	600	
						"Layton"	1,400	15
Winfield South ('45)	1-33-4E	300	33,684	160,993	11	"Bartlesville"	2,300	20
Miscellaneous		40	8,722		1+	Arbuckle	3,050	12
Total Cowley County		44,960	4,354,668	112,396,894	1,640	"Hoover"	3,300	5
					74		1,400	38

CRAWFORD COUNTY

"Fairview School"	2-28-22E	Included with miscellaneous	2	
Hepler* ('17)	27-22E	80	7	
"Houston" ('47)	3-31-22E	400	17	
McCune ('29)	30-22E	1,800	89	
St. Paul-Walnut*	28-21E	560	28	425

Table M—Oil production in Kansas during 1962, continued

1962 and 1963 production in Annual Report 1962, continued										
Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd. 1962	Name	Depth ft.	Thick- ness, ft.	Aver- age
			during 1962	to end, 1962						
Producing zone										
Walnut Southeast	28-22E	1,280	15,682		64		"Bartlesville"	400	15	
Miscellaneous		220	3,936		17	1				
Total Crawford County		4,380	40,239	1,005,106 recorded	222	1				
DECATUR COUNTY										
Adell Northwest ('52)	34-5-27W	640	112,430	1,216,436	14		Lans.-K.C.	3,664	54	39
Feely ('52)	2-5-27W	180	6,847	252,094	7		Lans.-K.C.	3,590	14	39
Hardesty ('52)	22-5-27W	640	23,618	446,814**	7		Lans.-K.C.	3,642	15	39
Jennings ('51)	25-4-27W	860	76,321	668,402	18		Wabaunsee	3,156	7	38
Jennings Northwest ('61)	10-4-27W	40	no runs	570	1		Lans.-K.C.	3,478	4	35
Jennings Southeast ('57)	6-5-26W	40	1,579	10,764	1		Lans.-K.C.	3,576	4	40
Jording (revived) ('62)	23-2-30W	40	2,706	2,706	1		Lansing	3,581	4	34
Jorn ('55)	29-2-28W	220	10,058	97,659	7		Lans.-K.C.	3,848	14	40
Lawson ('61)	11-1-26W	40	8,621	15,706	1		"Penn sand"	3,562	8	40
Monaghan ('52)	15-2-27W	80	6,167	91,855	2		Lans.-K.C.	3,558	3	32
Olive ('61)	12-2-28W	200	26,688	26,688	5		Lansing	3,514	55	32
Pollnow ('53)	4-3-29W	700	68,253	572,839	16		Lans.-K.C.	3,734	7	37
Prairie Dog ('59)	29-5-29W	40	4,065	19,722	1		Lansing	3,379	4	37
Ung ('62)	25-2-30W	80	5,932	5,932	2		Lans.-K.C.	3,863	5	35
Van Vleet ('56)	9-1-27W	Abandoned during 1962			1		Lans.-K.C.	3,805	1	35
Vavroch ('59)	4-4-28W	640	114,525	227,355	8		Lans.-K.C.	3,356	11	28
Warner ('56)	11-1-27W	640	34,868	406,741	20		Lans.-K.C.	3,699	8	
Pools or fields abandoned							Lans.-K.C.	3,324	17	35
Total Decatur County		5,080	502,678	3,644 4,065,927**	III		"Penn sand"	3,483		
DICKINSON COUNTY										
Ash Grove ('54)	5-15-1E	160	14,455	187,347	5		Mississippian	2,569	3	
Bonaccord ('43)	30-14-1E		no report	44,108			"Burgess"	2,483	2	
Bonaccord Northeast ('56)	29-14-1E	60	2,649	38,545	3	1	"Burgess"	2,502	3	
Dobbs ('60)	22-19-3E	Combined with Lost Springs								
Lost Springs* ('27)	16-4E	2,020	29,292	1,618,998	46	3	"Chat"	2,300		
Total Dickinson County		2,240	46,396	recorded	54	4				

DOUGLAS COUNTY

Baldwin* ('19)	12-15-20E	1,500	42,224	95	"Squirrel"	800
Eudora South ('29)	13-21E	10	70	1	"Squirrel"	700
Total Douglas County		1,510	42,294	96		
			273,343			
			recorded			

EDWARDS COUNTY

Belpre ('42)	8-25-16W	40	93	1	Lans.-K.C.	3,800
Belpre Southwest ('62)	18-25-16W	40	1,634	1	Mississippi	4,278
Bradbridge ('48)	2-24-16W	120	2,497	3	Mississippi	4,382
Bradbridge Southwest ('59)	11-24-16W	40	Abandoned during 1962		Arbuckle	4,020
Carpenter Southeast ('59)	31-23-16W	220	1,932	1	Arbuckle	4,120
Edstaff ('55)	12-25-16W	240	1,089	6	Mississippi	4,247
Embry ('53)	23-24-16W	240	4,320	9	Penn. congl.	4,230
English ('59)	31-25-16W	40	4,911	1	Lans.-K.C.	3,789
Enlow ('53)	9-24-16W	240	10,613	7	"Kinderhook"	4,292
Fatzer ('59)	14-26-17W	40	274	1	Mississippi	4,479
Groner ('62)	5-23-20W	40	Abandoned during 1962		Lans.-K.C.	3,736
Hawley ('59)	7-24-16W	80	no runs	2	Mississippi	4,504
Kirk ('55)	26-26-16W	80	4,786	2	Mississippi	4,525
McClanahan ('58)	2-26-18W	80	4,966	2	"Kinderhook"	4,241
Quaker* ('58)	35-26-19W	40	766	1	Mississippi	4,481
Sturgeon ('54)	33-26-18W	80	5,723	2	Penn. congl.	4,612
Trousdale ('56)	21-26-16W	180	10,630	7	Lans.-K.C.	4,223
Trousdale North ('58)	8-26-16W	120	2,189	4	Viola	4,721
Trousdale Northeast ('58)	15-26-16W	80	no runs	3	Cherokee	4,486
Wayne ('56)	28-24-17W	1,540	Abandoned during 1962		Mississippi	4,492
Wil* ('57)	26-25-16W	40	516,433	82	"Kinderhook"	4,392
Will West ('60)	29-25-16W	40	no runs	1	Mississippi	4,368
Pools or fields abandoned			879		"Kinderhook"	4,324
Total Edwards County		3,260	572,856	134	Kansas City	4,032
			116,211	5	Mississippi	4,365
			3,433,338**			

ELK COUNTY

Arbuckle	31-9E	360	6,619	8	"Burgess"	2,250
Bunyard	29-28-12E	40	398	2	"Stalnaker"	1,060
Bush-Denton ('20)	4-30-9E	860	19,852	69	"Peru"	2,135
Clubine	30-10E	40	873	1	"Burgess"	2,300
Collyer ('24)	30-30-11E	220	6,929	11	"Layton"	1,286
					Kansas City	1,518
					Fort Scott	

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd., 1962	Name	Depth, ft.	Thick- ness, ft.	Aver. ness, ft.	Producing zone
			during 1962	to end, 1962							
Cummings ('60)	26-31-9E		no report	944			Mississippian	2,226			27
Dory ('29)	18-30-9E	120	789		4		Mississippian	2,570			
Dunkleberger ('20)	34-29-10E	520	20,150		34		Kansas City	1,300	10		
Elk City*	31-13E	160	615		4		Mississippian	1,970			
Fleming ('50)	8-29-9E		no report	11,279			Arbuckle	2,656			
Grand Summit* ('26)	3-31-8E	400	10,583		12		Kansas City	2,000			
Hale-Inge* ('07)	31-12E	780	7,107		46	2	"peru"	1,160			
Key ('30)	31-10E	40	1,313		2		Arbuckle	2,270			
Kipfer	29-13E	120	319		3	1	Arbuckle				
Liscoe ('26)	31-10E	40	1,722		1		"New Albany"				
Logsdon ('25)	16-31-9E	200	10,068		5		"Burgess"				
Longton	31-12E	540	4,486		27		Mississippian		12		
Longton North ('27)	29-12E	100	429		5						
Love ('21)	30-9E	160	788		4		Mississippian	2,370			
Mills ('27)	14-30-10E		no report	685							
New Albany	29-13E	200	2,954		5		"Wayside"	560	20		
Porter	29-8E	120	3,042		10		Kansas City	2,050	10		
Preston	12-30-9E	60	336		1		Arbuckle	3,000	4		
Rettig	31-10E	60	1,973		2		Lans.-K.C.	1,550			
Roby ('56)	20-28-9E	40	9,926		4		Arbuckle	2,873	3		
Schrader ('28)	12-31-8E	400	17,124		12		Kansas City	1,520	22		
Severy* ('22)	8-28-11E		no report				Kansas City	1,200	13		
Walker ('27)	5-31-10E	400	18,736		10		Kansas City	1,550			
Ware ('55)	5-31-9E	40	1,081		1		Mississippian	2,225			
Webb ('25)	23-31-10E	820	15,872		40		Kansas City	1,671			
Youngmeyer (revived) ('62)				13,119			Kansas City	1,300			
Miscellaneous		240	2,401				Fort Scott	1,650			
Total Elk County		60	4,447		8		Mississippian	1,975			
		7,120	170,932	22,036	338	2	Arbuckle	2,300			
			16,347,747		10						
ELLIS COUNTY											
Air Base ('57)	27-13-16W	1,220	209,623	666,551	26	1	Lans.-K.C.	3,216	5	37	
Air Base East ('59)	25-13-16W	440	59,355	187,046	11		"Gorham"	3,453	4		
Air Base West ('60)	28-13-16W	40	15,235				Lansing	3,088	8		
Air-Braun ('58)	27-13-16W		no runs	1,251	1		Arbuckle	3,348	13		
Antonino ('47)	27-14-19W	120	no runs	3,687	3		Lans.-K.C.	3,216	2	38	
			29,375	188,138			Lans.-K.C.	3,502	2	38	
							Lans.-K.C.	3,404	4	38	
							Arbuckle	3,712	5	35	
							Reagan	3,726		34	

Antonino South ('62)	35-14-19W	200	10,944	16,618	3	Arbuckle	3,718	8
Beeching ('43)	34-15-16W	500	5,674		2	Lans.-K.C.	3,554	30
Bemis-Shuttles* ('35)	16-11-17W	25,000	7,757	326,496	6	Lans.-K.C.	3,156	4
			3,914,489	181,395,381	1,021	Shawnee	2,967	34
					20	Lans.-K.C.	3,408	11
						Penn. congl.	3,416	10
						Simpson	3,603	36
Bielman ('52)	24-15-18W	120	13,018	159,594	3	Arbuckle	3,380	4
Blue Hill ('37)	14-12-16W	1,440	108,197	3,123,152	43	Topeka	3,030	5
						Lans.-K.C.	3,072	33
						"Gorham"	3,348	6
						Arbuckle	3,360	99
Blue Hill Northeast ('59)	36-11-16W	40	1,003	4,335	1	Lansing	2,962	30
Blue Hill Northwest ('58)	3-12-16W	780	32,701	682,709	7	Lans.-K.C.	3,022	8
			3,554		1	Penn. congl.	3,333	37
			134,759		19	Arbuckle	3,300	6
Blue Hill Southeast ('59)	24-12-16W	160	10,974	31,756	5	Arbuckle	3,338	7
Boos ('56)	20-15-17W	80	12,959	65,802	3	Arbuckle	3,532	5
Braun ('53)	34-13-16W	120	5,604	104,684	3	Penn. congl.	3,459	7
Brunsgardt* ('52)	35-10-17W	200	no report	86,638	7	Lans.-K.C.	3,194	12
Burnham ('59)	11-14-18W		no report	1,001		Arbuckle	3,542	24
Catharine ('36)	3-13-17W	480	92,015	1,807,531	25	Lans.-K.C.	3,262	13
						Arbuckle	3,516	21
Catherine Northwest ('44)	4-13-17W	480	81,567	1,082,157	16	Lans.-K.C.	3,590	12
Catherine South ('46)	15-13-17W	1,400	223,181	3,789,217	55	Arbuckle	3,292	6
					2	Lans.-K.C.	3,538	8
						Penn. congl.	3,555	13
Catherine Townsite ('49)	9-13-17W	140	11,549	165,199	4	Lansing	3,585	18
Chris ('58)	34-11-16W	80	27,488	90,715	3	Arbuckle	3,042	3
Chrisler ('49)	22-11-16W	80	7,966	75,526	2	Lans.-K.C.	3,395	4
						Shawnee	3,038	35
Chrisler South ('58)	27-11-16W	120	25,062	118,888	4	Lans.-K.C.	3,100	3
Cochran ('53)	8-11-18W	100	8,943	112,293	3	Lans.-K.C.	3,328	10
Cromb ('45)	15-11-20W	200	14,429	215,669	5	Arbuckle	3,565	3
Dechant ('56)	7-15-18W	160	32,032	88,454	8	Lans.-K.C.	3,446	6
Degenhart ('53)	15-15-17W	300	17,511	234,795	5	Lansing	3,627	38
						Arbuckle	3,417	8
Degenhart Southeast ('57)	23-15-17W	140	3,227	46,350	4	Lans.-K.C.	3,521	10
Dinges ('54)	9-15-18W	80	12,551	113,069	2	Arbuckle	3,520	5
Dreiling ('49)	21-14-16W	580	54,414	1,145,288	22	Lans.-K.C.	3,624	12
Dreiling East ('62)	23-14-16W	40	1,268	1,268	1	Arbuckle	3,367	32
Dreiling Southeast ('53)	27-14-16W	540	20,937	457,695	13	Lans.-K.C.	3,414	6
Eagle Creek ('54)	11-11-20W	640	32,899	603,450	13	Arbuckle	3,327	12
Eagle Creek East ('58)	2-11-20W	40	4,693	29,471	1	Lans.-K.C.	3,368	3
						Lansing	3,348	5

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells ab- d.	Name	Sp. ft.	Thick- ness, ft.	Average
			during 1962	to end, 1962						
Ellis* ('42)	31-12-20W	1,680	90,619	1,811,257	27	1	Arb.-Reagan	3,832	8	40
Emmeram ('37)	4-13-16W	480	63,806	450,359	16	1	Lans.-K.C.	3,262	7	39
Emmeram Northeast ('49)	27-12-16W	1,100	67,506	1,243,565	24	2	Shawnee	3,124	8	
							Lans.-K.C.	3,272		
							Arbuckle	3,541	3	39
Emmeram Townsite ('52)	6-13-16W		no report	35,410			Lans.-K.C.	3,291	32	
							Arbuckle	3,520	10	
Engel ('56)	34-14-18W	140	25,090	209,083	6		Lans.-K.C.	3,350	6	
							"Penn sand"	3,621	5	
Engel West ('56)	33-14-18W		no report	1,980		1	Arbuckle	3,612	4	34
Erbert ('53)	20-12-20W	40	1,974	35,941	1		Lans.-K.C.	3,368	4	40
Experiment (revived) ('62)	17-14-18W	40	851	8,878	1		Lans.-K.C.	3,527	34	
Fairport* ('23)	8-12-15W	1,800	127,056	4,499,088	47		Arbuckle	3,906	13	
							Lans.-K.C.	2,950	12	32
							"Corham"	3,211		
							Arbuckle	3,312	5	
Fort Hays State College ('50)	1-14-19W	180	17,590	122,230	3		Reagan	3,350	19	
Gasaway ('58)	2-11-19W		no report	2,327			Lans.-K.C.	3,458	20	28
Ger ('60)	15-13-20W	40	2,621	6,693	1		Arbuckle	3,079	8	
Giinther ('52)	17-11-19W	80	6,622	94,037	2		Topeka	3,807	6	32
							Arbuckle	3,439	9	
Gottschalk ('57)	36-15-18W		no report	4,204			Lans.-K.C.	3,554	4	
Herbert ('58)	18-13-20W	180	51,574	182,239	6	7	Arbuckle	3,251	7	
							Lansing	3,521	4	
							Marmaton	3,870	96	
Herbert North ('60)	18-13-20W		no report	1,651			Arbuckle	3,907	19	40
Herl ('51)	28-14-17W	80	4,848	186,593	2	1	Lans.-K.C.	3,470	7	36
							Lans.-K.C.	3,382	28	
							Penn. congl.	3,453	8	28
Hertel Southwest ('52)	17-14-16W		no report	16,501			Arbuckle	3,476	4	38
Herzog ('40)	30-13-16W	1,300	103,055	2,217,042	27		Lans.-K.C.	3,232	8	
							Arbuckle	3,450	6	27
Herzog South ('59)	5-14-16W	20	1,332	9,754	1		Lansing	3,207	7	29
Heyl ('56)	20-14-17W	40	5,742	23,047	1		Arbuckle	3,513	7	
Heyl Southeast ('59)	21-14-17W	160	3,351	70,103	1		Toronto	3,222		
							Lans.-K.C.			
							Arbuckle	3,509	9	
Holy Cross ('53)	26-12-18W	40	23,025	88,916	5		Lans.-K.C.	3,423	4	34
Holz ('59)	18-13-16W	20	5,752	8,911	1		Lansing	3,276	5	35
Irvin ('46)	6-14-19W	3,500	2,209	8,911	1		Lans.-K.C.	3,553		
			498,174	5,081,567	87	1	Arbuckle	3,860	39	
Irvin East ('55)	4-14-19W	40	823	29,105	2		Lans.-K.C.	3,628	18	35
							Arbuckle	3,835	30	

Jacob ('51)	6-11-19W	no report	16,946		Lans.-K.C.	3,542	4	23
Kaiser ('59)	30-13-20W	100	117,702	4	Lansing	3,565	5	41
Koblitz West ('59)	21-12-18W	20	7,151	1	Lansing	3,406	7	32
Kraus ('36)	22-14-19W	2,420	1,595,730	58	Lans.-K.C.	3,660	5	
					Marmaton	3,834	4	
					"Sooy"	3,735	5	
Krueger* ('48)	35-10-16W	960			Arbuckle	3,732	39	
			89,125		Toronto	3,235	25	
Leiker ('43)	14-15-18W	1,000	1,643,140	25	Lans.-K.C.	3,552		40
					Lans.-K.C.	3,292		
					Penn. congl.	3,582		
Leiker East ('53)	12-15-18W	1,280	3,110,885	49	Arbuckle	3,591	5	
					Lans.-K.C.	3,321	8	
Leiker North ('56)	2-15-18W	160	212,731	4	Arbuckle	3,576	13	45
Leiker Southeast ('54)	14-15-18W	320	353,396	11	Arbuckle	3,601	5	34
					Lans.-K.C.	3,292	19	
Leinmiller ('59)	2-12-19W	80	41,485	2	Arbuckle	3,547	4	36
			6,393		Lans.-K.C.	3,401	6	22
Leonhardt ('62)	20-14-18W	40	423	1	Arbuckle	3,695	13	
Lieb ('56)	17-11-16W	160	206,272	7	Lansing	3,376	35	38
Lieb East ('57)	16-11-16W	180	168,034	8	Arbuckle	3,356	7	28
			4,851	1	Lansing	2,982	8	
Meistrell Southwest ('59)	9-11-18W	120	69,984	4	Arbuckle	3,346	26	
			34,103		Lansing	3,289	4	32
					Toronto	3,262		
Mendota ('51)	5-11-20W	140	121,046	3	Lans.-K.C.	3,530	10	35
			6,076		Arbuckle	3,668	8	
Neddam ('57)	16-11-18W	60	39,047	2	Lans.-K.C.	3,162	1	27
Nellie Belle ('55)	15-13-17W	80	91,706	3	Arbuckle	3,521	12	34
Nicholson* ('45)	30-11-20W	1,300	1,584,709**	32	Arbuckle	3,842	8	
North ('56)	20-15-20W	80	65,670	2	Lans.-K.C.	3,562	5	38
					Penn. congl.	3,862	3	30
Penny-Wann ('36)	13-15-20W	80	235,832	2	"Sooy"	3,653		
Pleasant ('44)	2-14-20W	2,000	3,382,686	52	Shawnee	3,569		
					Lans.-K.C.	3,805		
					Marmaton			
					Penn. congl.			
					Arb.-Reagan	3,833	38	
Pleasant Southeast ('60)	12-14-20W	no report	none		Arbuckle	3,771	6	
Pleasant West ('61)	4-14-20W	no report	933		Arbuckle	3,937	8	37
Polifka ('48)	7-13-17W	480	569,252	14	Arbuckle	3,640	33	31
Potter ('56)	20-11-16W	640	697,826	19	Pleasanton			
			129,634	19	Arbuckle	3,309	7	32
Raynesford ('52)	17-13-20W	80	89,997	2	Lans.-K.C.	3,535	5	30
			3,692		Penn. congl.	3,870	9	39
Raynesford East ('52)	16-13-20W	340	303,908	6	Arbuckle	3,424	12	
Reed ('49)	5-13-17W	40	49,745	1	Lans.-K.C.	3,596		
					Arbuckle			
Reed Northwest ('62)	31-12-17W	80	6,209	1	Lans.-K.C.			
			785		Arbuckle			
Reichert ('60)	4-15-19W	no report	5,424	1	Lans.-K.C.	3,636	7	27
					Arbuckle	3,360	10	32

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abdl. 1962	Producing zone		
			during 1962	to end, 1962			Depth, ft.	Thickness, ft.	Aver. grav.
Richards ('56)	5-11-18W	40	2,860	136,726	1		3,295	2	
Riverview ('43)	19-11-18W						3,466		37
Riverview South ('56)	32-11-18W	1,020	71,518	2,685,220	19		3,610	18	
Ruder ('35)	17-15-18W	640	8,010	93,042	3		3,367	5	33
			34,588	1,555,778	9		3,422		35
Ruder North ('57)	4-15-18W	80	3,210	46,301	2		3,572	10	
Ruder Southwest ('59)	18-15-18W		no report	513			3,619	9	30
Schmeidler ('44)	28-12-17W	1,420	150,543	1,493,506	37		3,634	4	
Schmeidler Northwest ('53)	20-12-17W	Combined with Schmeidler					3,389	6	
Schoenchen ('46)	21-15-18W	1,020	79,203	1,600,145	28		3,625	10	26
Schoenchen Townsite ('56)	28-15-18W	40	1,463	41,298	1		3,696	6	
Scurlock ('57)	20-15-18W		no report	6,418			3,324	6	
Sessin ('52)	15-11-19W	920	117,110	1,470,587	25	1	3,569	9	31
							3,255	4	39
							3,431	5	33
Solomon ('36)	28-11-19W	3,500	226,240	5,250,314	86		2,969		
							3,291	7	23
							3,499	3	
							3,013	4	
							2,990		19
							3,229		
							3,629	3	19
Solomon South ('57)	33-11-19W	80	11,217	88,419	2		3,652	3	
Solomon Southeast ('57)	35-11-19W	160	14,438	150,603	4		3,682	4	18
Spring Hill ('61)	23-14-20W	40	419	1,139	1	1	3,414	4	32
Stockrange ('57)	21-15-20W	40	no runs	23,514	1		3,864	6	38
Sugarloaf ('41)	17-13-17W	640	33,274	1,035,784	9		3,391		30
							3,645	9	
Sugarloaf Southeast ('41)	28-13-17W	2,300	390,163	4,139,697	61	2	3,312	8	30
							3,520		
Sunnydale ('52)	1-14-20W		no report	5,570			3,850		
Sweet William ('50)	10-12-20W	40	1,491	29,484	1		3,700		35
							3,908		
Sweet William Northwest ('56)	4-12-20W	40	1,510	18,745	1		3,739	8	36
							3,910	8	
Toulon ('35)	3-14-17W	1,080	93,814	1,531,212	28		3,298	5	34
							3,512	45	
Toulon South ('58)	14-14-17W	300	20,403	260,357	5		3,302	10	
			20,451		4		3,523	10	32
Toulon Southeast ('58)	11-14-17W		no report	43			3,348	4	36
Toulon Southwest ('55)	16-14-17W	280	57,072	211,794	11		3,272	8	
							3,504	4	
Trico* ('51)	30-10-20W	300	48,097	310,495	6		3,610	10	24
Turkville ('53)	11-11-17W	160	6,857	113,302	4	1	3,165	24	34
							3,359		

Turkville West ('59)	10-11-17W	40	3,473	26,753	2	1	Arbuckle	3,378	6	27
Ubert ('36)	12-13-18W	180	27,952	458,959	7		Lans.-K.C.			
Ubert North ('51)	31-12-17W	240	49,993	483,543	6		Arbuckle	3,707	32	
Ubert Northwest ('52)	1-13-18W	480	63,811	1,153,781	19		Arbuckle	3,600	31	
Upper Turkville ('60)	9-11-17W	80	13,685	50,255	2	1	Lans.-K.C.	3,339	33	
Victoria North ('53)	6-14-16W	220	72,094	151,445	11		Arbuckle	3,592	33	
Victoria South ('61)	19-14-16W	40	695	2,658	1		Arbuckle	3,356	5	25
Wagner ('56)	36-14-16W	40	no report	17,709	1		Toronto	3,182	1	
Warren ('49)	12-11-20W	40	2,955	72,600	1		Lans.-K.C.	3,208	6	35
Werth ('58)	2-13-20W	40	7,305	53,050	1	1	Arbuckle	3,471	52	39
Werth North ('62)	35-12-20W	80	3,580	507,843	2		Lans.-K.C.	3,215	7	33
Wheatland ('49)	18-15-17W	400	19,429	507,843	10		Arbuckle	3,420	7	33
Wheatland Northwest ('53)	12-15-18W	180	8,282	87,807	5		Lans.-K.C.	3,458	31	
Wheatland Southeast ('55)	28-15-17W	120	6,832	128,528	2		Arbuckle	3,833	6	33
Wheatland Southwest ('53)	19-15-17W	580	122,782	1,224,775	24		Lans.-K.C.	3,880	6	35
Windholz ('57)	32-12-16W	560	no report	3,835			Lans.-K.C.	3,307	14	32
Younger ('44)	6-14-17W	560	48,291	745,640	15		Arbuckle	3,571	6	37
Younger Northwest ('62)	30-13-17W	80	no report	none	1		Lans.-K.C.	3,526	5	39
Younger South ('54)	8-14-17W	40	7,791	82,273	2		Arbuckle	3,516	32	
Younger Southeast ('62)	4-14-17W	40	1,438	1,438	1		Lans.-K.C.	3,252	9	37
Younger Southwest ('59)	7-14-17W	40	no runs	2,136	1		Arbuckle	3,554	5	
Yunker ('59)	9-12-19W	40	4,086	20,401	1		Lans.-K.C.	3,348	8	
Zimm ('59)	23-13-20W	40	no report	7,048	1		Arbuckle	3,331	18	33
Pools or fields abandoned				144,223			Lansing	3,375	20	
Total Ellis County		76,000	9,937,194	258,298,642**	2,446	67	Arbuckle	3,574	7	37
							Kansas City	3,546	6	
							Arbuckle	3,347	12	26
							Lansing	3,550	10	34
							Lansing	3,493	4	38
								3,477		
ELLSWORTH COUNTY										
Andrews ('52)	4-17-8W	160	3,159	153,752	4	2	Arbuckle	3,302	3	43
Bloomer* ('36)	36-17-11W	2,480	213,286	15,985,433	77	1	Lans.-K.C.	3,044	8	43
Genesee-Edwards* ('34)	25-18-8W	3,400	502,288	21,916,799	118	3	Simpson	3,257	39	
Green Garden ('54)	1-17-9W	220	28,974	98,437	4		Arbuckle	3,157	41	
Heiken ('30)	25-17-10W	580	23,992	884,578	3		Lans.-K.C.	3,278	4	40
			51,026		15	2	Arbuckle	3,046		
							Lans.-K.C.	2,974		
							Penn. congl.	3,226		
Heiken North ('42)	24-17-10W	180	14,226	248,992	5		Arbuckle	3,269	2	40

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd., 1962	Producing zone		
			during 1962	to end, 1962			Name	Depth, ft.	Thick- ness, ft.
Kraft-Prusa* ('37)	10-17-11W	800	47,052	1,426,930	13	1	Shawnee Lans.-K.C. "Gorham" Arbuckle Reagan Lans.-K.C. Arbuckle Lans.-K.C. Arbuckle Arbuckle Lans.-K.C. Simpson Arbuckle Arbuckle Arbuckle	2,885 3,160 3,335 3,281 3,310 3,060 3,200 3,066 3,341 3,402 3,303 3,260 3,379 3,333 3,287 3,220	5 34 120 5 36 8 40 42 2 14 9 42
Lorraine ('34)	13-17-9W	1,700	39,692	11,187,062	26	1	Arbuckle	3,200	120
Lorraine North ('53)	12-17-9W	120	13,773	188,418	4		Arbuckle	3,066	5
Maes ('52)	26-17-8W	440	27,499	1,335,751	11	4	Arbuckle	3,341	16
Progress ('55)	10-16-10W	140	20,242	373,058	4		Arbuckle	3,402	8
Progress Northwest ('55)	4-16-10W	280	33,450	780,225	13	2	Arbuckle	3,303	8
Stoltenberg ('31)	22-16-10W	8,500	566,126	43,756,611	264	10	Arbuckle	3,260	42
West ('51)	20-17-10W	40	2,705	54,182	1		Simpson	3,379	2
Wilkins Southeast ('42)	32-17-9W	80	2,478	511,801	2		Arbuckle	3,333	14
Pools or fields abandoned				35,597			Arbuckle	3,287	9
Total Ellsworth County		19,120	1,589,968	98,937,626	564	26		3,220	42
FINNEY COUNTY									
Amazon Ditch ('61)	20-22-34W	140	18,260	72,294	1		Mississippian	4,674	6
Beyer ('52)	24-26-33W		40,700		3		Marmaton	4,286	31
Cowgill ('61)	27-24-33W	160	no report	23,340			Lans.-K.C.	4,398	8
Damme ('51)	21-22-33W	2,800	35,978	45,377	4		Morrowan	4,809	11
			56,141	2,153,427	8		Marmaton	4,417	5
			15,453		2		Morrowan	4,700	
Finnup East ('53)	25-22-33W	40	284,780		40		Mississippian	4,626	10
Ivanhoe ('59)	17-26-33W	60	554	14,178	1		Marmaton	4,442	16
Kisner ('61)	36-26-33W	40	8,671	34,557	2		Morrowan	4,922	30
Nunn ('38)	27-21-34W	1,340	430	665	1		Morrowan	4,922	5
			86,924	2,828,982	29		Kansas City	4,972	2
							Marmaton	4,972	13
							Cherokee	4,550	31
							Mississippian	4,654	34
Nunn East ('61)	31-21-33W	40	22,869	32,443	1		Mississippian	4,651	10
Nunn North ('57)	22-21-34W		Included with Nunn				Marmaton	4,382	19
Pleasant Prairie* ('54)	4-27-34W	2,200	1,141,000	4,860,000	54		Marmaton	4,460	12
							Morrowan	4,959	10
							Mississippian	5,041	9
Sequoyah ('56)	17-23-34W	120	14,738	106,517	3		Morrowan	4,694	34
Sonderegger ('52)	21-22-31W		no report	6,543			Mississippian	4,737	10
Stewart ('52)	6-23-30W	40	3,136	39,191	1		Mississippian	4,710	29

Wampler ('59)	17-21-33W	160	13,296 22,844	118,358	2	Marmaton	4,252	12	34
Total Finney County		7,140	1,763,530**	10,335,872**	100	Morrowan	4,573	4	31
FORD COUNTY									
Conrardy ('61)	22-26-24W	Abandoned during 1962							
Konda ('56)	11-27-22W	no report							
Little Coon Creek ('61)	33-25-21W	80	3,246	27,861	1	Cherokee	5,010	32	36
		80	16,943		1	Mississippi	4,683	21	36
Pleasant Valley ('50)	34-27-21W	no report							
Rushville ('62)	9-27-21W	40	2,154	18,341	1	Mississippi	4,779	4	37
Willroads ('60)	26-27-24W	40	13,263	2,154	1	Mississippi	4,954	145	31
Total Ford County		240	35,606	32,818	1	Marmaton	4,663	9	38
				87,184	1				
FRANKLIN COUNTY									
Baldwin* ('19)	15-20E	180	9,233		9	"Squirrel"	800		
LeLoup	15-20E	120	372		6	"Squirrel"	750		
Norwood	15-20E	120	5,125		12				
Ottawa ('27)	17-19E	40	400		1				
Paola-Rantoul* (1860)	17-21E	32,000	312,180		810	"Knobtown"	300		
						Hepler	400		
						"Prue"	500		
						"Squirrel"	600		
						"Bartlesville"	700		
Miscellaneous		300	7,741		9				
Total Franklin County		32,760	335,051	12,166,893 recorded	847				
GEARY COUNTY									
Ge-See* ('59)	27-11-8E	20	721	4,968	1	Cherokee	1,749	12	
GOVE COUNTY									
Coberly ('51)	15-14-29W	Abandoned during 1962							
Gove ('51)	26-13-30W	Abandoned during 1962							
Grinnell ('59)	16-12-30W	no report							
Lundgren South ('52)	31-14-29W	400	68,411	1,439 197,827	10	Lans.-K.C.	4,122	10	35
						Marmaton	4,287	9	36
						Lans.-K.C.	4,122	3	30
						Mississippi	4,547	33	33
						Mississippi	4,489	6	35
						Pawnee	4,076	18	
						Fort Scott	4,139	1	
						Cherokee	4,164	14	40
						Mississippi	4,277	6	
Pools or fields abandoned				114,461					
Total Gove County		400	68,411	313,727	10				

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abdn. 1962	Name	Producing zone		
			during 1962	to end, 1962				Depth, ft.	Thickness, ft.	Average, ft.
GRAHAM COUNTY										
Alda ('44)	15-7-22W		no runs	87,065			Lans.-K.C.	3,518	3	37
Allodium ('55)	19-6-25W	80	2,226	54,284	2		Lans.-K.C.	3,740	5	36
Blazier ('55)	21-7-25W	440	73,741	664,315	11		Lans.-K.C.	3,785	8	
Blazier Northwest ('57)	20-7-25W	40	5,660	58,481	2		Lans.-K.C.	3,844	6	40
Bollig ('62)	28-9-25W		no report	none			Lans.-K.C.	3,986	4	
Brassfield ('56)	2-10-22W	600	29,613	319,059	12		Lans.-K.C.	3,688	45	39
Brassfield South ('58)	2-10-22W		no report	880		3	Lans.-K.C.	3,764	5	39
Brush Creek ('55)	4-9-23W	720	75,536	725,260	19		Lans.-K.C.	3,768	4	40
Brush Creek Northwest ('57)	32-8-23W	160	16,919	122,321	4	2	Lans.-K.C.	3,818	3	38
Bryan ('59)	9-10-24W		no report	7,783			Lansing	3,838	6	36
Bryan Northeast ('61)	4-10-24W	160	40,195	47,432	4		Lans.-K.C.	3,780	24	33
Conness ('58)	23-10-23W	180	10,008	97,683	5		Lans.-K.C.	3,712	4	
Cooper* ('43)	5-10-20W	9,000	611,502	13,206,721	177	14	Lans.-K.C.	3,619	6	
Culp ('61)	21-10-24W	120	15,988	25,835	3		Arbuckle	3,778	2	31
Diebolt* ('53)	33-10-23W	1,460	90,540	3,064,237	83		Lans.-K.C.	3,796	6	41
Dorman (revived) ('62)	25-10-24W	40	1,243	21,325	1		Lansing	3,779	6	35
Elrick ('55)	15-10-25W	2,500	5,795	2,285,517	1		Toronto	3,770	8	
			519,409		69		Lans.-K.C.	3,931	5	
			9,459		1		Cherokee	4,212	10	
Elrick Southeast ('59)	23-10-25W	180	19,977	65,885	3		Lansing	3,751	6	41
Emor ('57)	34-9-25W	580	190,264	698,715	19		Lansing	4,016	12	40
Emor North ('60)	27-9-25W	80	8,099	21,796	2		Lans.-K.C.	3,867	5	39
Evergreen ('56)	22-9-23W		no report	12,903			Lans.-K.C.	3,711	2	29
Evergreen Northwest ('57)	17-9-23W	600	32,777	443,075	17		Lans.-K.C.	3,826	4	38
Fabricius ('58)	25-7-23W	720	165,324	821,022	23	3	Lansing	3,637	3	40
Fabricius South ('58)	36-7-23W		Combined with Fabricius				Lansing	3,669	3	38
Fargo West ('51)	34-9-22W		no report	4,540			Lans.-K.C.	3,755		
Faul ('58)	22-10-22W	100	7,057	62,558	3		Lansing	3,760	4	36
Faulkner ('45)	27-10-22W	40	3,990	247,205	1		Lans.-K.C.	3,629	2	37
Gettysburg ('41)	7-8-23W	80	3,656	106,959	2		Marmaton	3,844	30	39
Glen Dale Southeast ('58)	24-9-24W	140	38,251	108,247	5		Lans.-K.C.	3,725	3	38
Glen Dale Southwest ('57)	28-9-24W	80	11,868	73,501	2		Lans.-K.C.	4,026	8	40
Gra-Sher ('59)	6-10-25W	280	82,762	297,778	8		Lansing	3,815	4	33
Gurk ('58)	18-10-25W	120	27,103	110,811	4		Lansing	3,824	34	34
Gurk North ('62)	7-10-25W	40	6,464	6,464	1		Lans.-K.C.	3,927	68	40
Harmony ('51)	32-7-22W	360	18,625	355,398	6		Lans.-K.C.	3,597	37	
							Arbuckle	3,776		

Harmony South ('58)	7-8-22W	180	59,040	227,149	5	Lansing	3,578	8	37
Harrold ('57)	29-9-21W	40	2,968	34,525	1	Arbuckle	3,885	5	
Hatcher ('56)	6-9-21W	80	1,552	33,705	2	Arbuckle	3,722	8	
Higer ('57)	20-8-23W	160	10,039	102,004	4	Lans.-K.C.	3,710	4	40
Higer Northeast ('57)	17-8-23W	500	51,130	320,905	12	Lans.-K.C.	3,644	5	39
Highland ('51)	20-8-22W	40	1,432	23,201	1	Lans.-K.C.	3,616	37	
Highland Southwest ('58)	29-8-22W	100	9,582	78,534	3	Lansing	3,584	3	34
Hill City ('58)	24-8-23W		no report	8,276	115	Lansing	3,601	3	34
Holley ('54)	3-9-24W	4,600	147,147	3,079,692	6	Lans.-K.C.	3,900	6	47
Holley North ('55)	29-8-24W	180	17,088	302,459	2	Lans.-K.C.	3,897	9	45
Holley Northwest ('57)	25-8-25W	80	7,325	49,264	2	Lans.-K.C.	3,831	5	
Holley Southeast ('57)	10-9-24W	200	50,350	285,849	8	Lans.-K.C.	3,960	5	41
Hoof ('54)	9-10-23W	640	231,013	1,788,853	29	Lans.-K.C.	3,865	4	32
Hoof East ('59)	14-10-23W	140	39,727	139,866	5	Lansing	3,674	10	34
Hoof Northwest ('57)	6-10-23W	640	189,825	397,754	24	Lans.-K.C.	3,934	11	43
Hoof West ('55)	8-10-23W	240	30,278	194,299	8	Lans.-K.C.	3,903	5	
Huntington ('55)	7-7-25W	200	36,983	282,800	4	Lans.-K.C.	3,832	8	40
Hutton ('58)	1-8-24W	40	2,430	22,809	1	Lans.-K.C.	3,764	3	
Ironclad ('50)	23-9-22W	780	44,906	815,806	15	Lans.-K.C.	3,756	6	37
J.A.B. ('62)	17-7-23W	40	3,893	3,893	1	Lans.-K.C.	3,692	160	33
Kenyon ('57)	5-8-21W		717	10,185	1	Lans.-K.C.	3,360	5	38
Abandoned during 1962									
Knoll ('57)	4-9-25W	40	6,724	6,724	1	Lans.-K.C.	3,875	4	
Knoll Northwest ('58)	5-9-25W	80	no runs	15,225	2	Lansing	3,981	5	33
Kobler ('58)	27-8-24W	120	18,410	112,035	4	Lans.-K.C.	3,841	15	36
Lacerte ('56)	32-10-22W	40	2,526	31,636	1	Lans.-K.C.	3,602	4	36
Law ('51)	34-9-23W	900	65,582	1,212,812	14	Lans.-K.C.	3,922	10	38
Law Northwest ('57)	28-9-23W	300	44,605	417,412	12	Penn. congl.	4,126	6	38
Law Southeast ('55)	12-10-23W	440	41,903	482,172	13	Lans.-K.C.	3,826	29	
Lindenman ('59)	31-6-25W	80	13,041	48,710	2	Lans.-K.C.	3,869	11	40
McVey ('58)	7-10-22W		no report	7,103	2	Lans.-K.C.	3,853	2	40
Martha Washington ('62)	24-10-25W		no report		2	Lans.-K.C.	3,891	4	41
Mickleeson ('52)	27-8-22W	140	8,783	138,147	4	Lans.-K.C.	3,502	34	34
Mildrextex ('55)	12-9-23W		no report	75,259		Arbuckle	3,759	16	24
Mildrextex Southeast ('58)	12-9-23W		no report	none		Lans.-K.C.	3,814	2	38
Mitchell ('58)	20-9-24W		no report	1,212		Lansing	3,854	4	36
Montgomery ('58)	8-8-23W	100	11,421	83,236	3	Lans.-K.C.	3,511	33	
Montgomery East ('58)	4-8-23W	40	1,339	13,709	1	Lans.-K.C.	3,706	4	
Morel ('38)	15-9-21W	8,600	1,226,692	29,805,487	222	Lans.-K.C.	3,676	3	26
Morel North ('55)	3-9-21W		no report	15,152		"Sooy"	3,712	12	27
Mt. Etna ('59)	11-7-23W		no report	2,036		Arbuckle	3,718	5	38
Mount Vernon ('58)	6-7-22W	140	44,916	211,078	4	Lansing	3,667	5	38
Nana ('53)	4-8-24W	500	57,532	1,117,706	20	Lansing	3,651	5	38
Nana Northwest ('58)	33-7-24W	200	35,766	205,066	4	Lans.-K.C.	3,738	8	
Penokee ('40)	11-8-24W	130	16,494	334,366	7	Lansing	3,873	4	41
Prairie Glen ('54)	25-10-23W	100	5,673	76,190	5	Lans.-K.C.	3,750	16	43
Prairie Glen Southeast ('55)	31-10-22W	100	4,580	92,431	3	Lans.-K.C.	3,596	4	33
Prairie Glen Southwest ('58)	35-10-23W	40	2,444	15,559	1	Lansing	3,594	8	

Table M.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Name	Depth, ft.	Thick- ness, ft.	Aver. grav.	Producing zone
			during 1962	to end, 1962						
Ray* ('49)	32-5-20W		no report	1,240		Lans.-K.C. Arbuckle	3,297 3,575			
Red Line ('55)	32-9-22W	380	17,324	228,196	6	Reagan	3,540	32		
Red Line North ('55)	20-9-22W	41	2,338	30,568	1	Lans.-K.C.	3,776	3		
Red Line Northwest ('61)	19-9-22W	100	20,388	21,720	3	Lans.-K.C.	3,676	4	35	
Richmeier ('61)	30-9-25W		no report	580		Lans.-K.C.	3,675	4	35	
Riedel ('62)	6-10-24W	100	16,096	16,096	3	Lans.-K.C.	3,876	8	38	
Robin ('59)	18-10-22W		no report	11,693	1	Penn. congl.	3,864	6	40	
Sand Creek ('54)	27-8-21W		no report	10,647		Lans.-K.C.	4,031	4	29	
Schmied ('52)	21-8-25W	1,280	136,290	1,857,933	26	Arbuckle	3,387	6	30	
Schmied Northeast ('54)	10-8-25W	160	6,138	96,642	4	Lans.-K.C.	3,578	4	30	
Schmied Northwest ('57)	5-8-25W	80	1,371	56,983	2	Lans.-K.C.	3,740	4	30	
Schmied South ('57)	28-8-25W		no report	none	1	Lansing	3,867	25	46	
Schneibly ('52)	8-8-22W		no report	66,556		Lans.-K.C.	3,952	5	41	
Shiloh ('51)	1-9-25W	320	98,983	250,753	10	Lans.-K.C.	3,931	5	42	
Swank ('58)	4-9-22W		no report	8,780		Lans.-K.C.	3,507	5	42	
Trico* ('51)	30-10-20W	1,800	317,767	3,247,967	55	Arbuckle	4,013	4	22	
Van ('54)	14-9-22W	480	77,944	755,436	16	Arbuckle	3,611	7		
Vance ('62)	5-10-25W	40	8,538	8,538	1	Lans.-K.C.	3,786	5	22	
Vesper ('57)	36-9-23W	1,200	88,317	1,073,872	31	Arbuckle	3,580			
Vesper North ('59)	23-9-23W		no report	2,582		Lans.-K.C.	3,871	17		
Wheeler ('57)	8-10-21W	200	10,045	82,033	6	Lans.-K.C.	4,035	2	41	
Pools or fields abandoned				108,360		Lans.-K.C.	3,849	2	34	
Total Graham County		46,051	5,471,446	74,884,521	1,227	Marmaton	3,702	8	28	
					35		3,783	9		
GRANT COUNTY										
DaVatz ('61)	13-28-36W	40	13,271	19,190	1	Morrowan	5,220	1	38	
Hick ('59)	23-30-35W	40	1,478	6,979	1	Mississippian	5,392	20	41	
Pollyana ('59)	36-27-35W	40	no runs	13,675	1	Lansing	4,090	13	32	
Ryus ('61)	3-30-35W	40	1,889	4,642	1	Marmaton	4,700	2	36	
Total Grant County		160	16,638	44,486	4	Morrowan	5,234	5	38	
GREENWOOD COUNTY										
Atyeo-Pixlee* ('23)	7-22-10E	1,680	94,157		61	"Bartlesville" Mississippian	2,350	20		

Beaumont ('20)	27-8E	700	19,152	31	1	"Peru"	1,830
						Mississippi	2,445
Beaumont South ('35)	2-28-8E	120	4,575	5		Arbuckle	2,740
Blackwell ('25)	16-24-13E	480	5,413	12		Mississippi	2,500
Blankenship* ('21)	26-8E	120	1,350	8	9	Mississippi	1,650
Brinegar	26-13E	240	5,176	4		"Bartlesville"	2,650
Browning ('24)	22-10E	1,400	119,809	110	17	"New Albany"	427
Burkett ('23)	24-23-10E	1,960	135,708	80		"Bartlesville"	2,314
Burt ('49)	8-26-11E	40	1,334	2		"Bartlesville"	2,000
Climax ('25)	27-11E	40	1,300	1		Mississippi	1,945
DeMalorie-Souder ('24)	22-10E	2,000	199,774	122	5	Mississippi	1,900
Dunaway* ('22)	34-22-13E	1,400	57,046	54		"Bartlesville"	2,150
Eureka ('27)	31-25-11E	1,140	40,255	44	1	Mississippi	1,800
						Fort Scott	1,750
Fancy ('56)	25-26-12E	120	3,391	7		Mississippi	2,000
Fankouser* ('26)	4-22-12E	1,020	28,141	17	2	Mississippi	1,643
Gaffney ('26)	18-24-11E	420	22,088	12		"Bartlesville"	1,850
Hinchman ('27)	17-24-13E	240	4,684	8	2	Mississippi	1,615
Hollis ('27)	16-23-10E	80	3,187	3		"Bartlesville"	2,150
Hubbard	22-13E	40	880	2		Cherokee	1,500
Huffine ('62)	10-28-13E	40	1,485	2			
Jackson	25-8E	160	3,228	4		"Bartlesville"	2,608
Jackson Southwest* ('57)	34-25-8E	100	23,261	7		"Bartlesville"	1,700
Lamont ('26)	29-22-13E	1,600	75,859	47		"Bartlesville"	1,853
Lane ('58)	5-26-12E	60	219	4		Mississippi	1,858
Ly-Green* ('54)	5-22-11E	40	958	1		"Bartlesville"	1,921
Mignot ('51)	9-22-11E	40	649	1		"Bartlesville"	2,236
Ott	7-22-13E	40	1,142	1		Simpson	2,180
Polhamus ('22)	25-9E	980	62,235	39	9	"Bartlesville"	1,500
Quincy* ('26)	11-25-13E	1,020	29,290	39		Mississippi	1,720
						Kansas City	1,380
Reece ('25)	24-26-9E	1,300	16,026	17		Mississippi	2,100
Ritchey-Moore* ('25)	34-21-10E		no report			Mississippi	2,170
Sallyards	25-8E	2,500	237,889	167	29	"Bartlesville"	2,350
Scott ('25)	24-23-8E	980	34,335	41	3	"Bartlesville"	2,525
Seeley-Wick ('22)	28-23-11E	8,000	824,987	462	15	"Bartlesville"	1,930
						Cattlemen	1,631
Severy* ('22)	28-11E	300	5,991	15		Kansas City	1,200
Severy North	27-11E	100	363	5		Kansas City	830
Stanhope	15-26-8E	200	15,753	15		Mississippi	2,450
Teeter* ('20)	16-23-9E	3,020	407,188	159	9	"Bartlesville"	2,400
Teichgraber ('39)	25-8E	440	57,712	35		"Bartlesville"	2,750
Thrall-Aagard ('21)	14-24-9E	5,400	582,632	350	7	"Bartlesville"	2,170
Tonovay ('17)	25-11E	80	1,109	3		Mississippi	1,830
Toronto* ('13)	16-26-13E	160	896	6		"Peru"	1,000
						"Bartlesville"	1,700
Vigil ('16)	14-24-12E	4,200	193,035	163	5	"Bartlesville"	1,550
Virgil North* ('20)	22-23-13E	6,240	213,479	293		Mississippi	1,700
Wiggins ('25)	30-24-11E	1,220	75,432	47	4	"Bartlesville"	1,860
						Mississippi	1,585
						Mississippi	1,840
						Mississippi	1,860

Table 24—Oil production in Kansas during 1962, continued

TABLE 24.—Oil production in Kansas during 1962, continued											
Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells ab- d., 1962	Name	Producing zone			
			during 1962	to end, 1962				Oil	Gas		
GREENWOOD COUNTY											
Wilkerson ('26)	6-25-9E	500	11,280		10		"Bartlesville"	2,200	48		
Willard ('27)	7-27-11E	160	9,726		10		Mississippian	1,900	10		
Winterscheid*	23-14E	20	2,188		1		Mississippian	1,750			
Zebold ('57)	27-23-9E	140	5,306	53,940	5		Mississippian	2,424	8		
Zimmermann ('53)	19-23-10E	60	9,965	19,776	3		"Bartlesville"	2,296			
Miscellaneous		80	5,223		5+	3					
Total Greenwood County		52,420	3,647,261	241,409,044 recorded	2,540	125					
HAMILTON COUNTY											
Gould ('59)	30-25-41W	40	6,473	33,414	1		Morrowan	5,119	8		
Heifrich ('55)	6-25-42W	40	2,780	42,930	1		Morrowan	5,040	10		
Total Hamilton County		80	9,253	76,344	2				39		
HARPER COUNTY											
Alfalfa ('61)	12-34-6W	80	4,211	6,887	2	1	Kansas City	3,751	8		
Banner ('54)	27-32-7W	80	3,621	142,245	2		Viola-Simpson	4,833	6		
Crystal Springs ('59)	18-32-7W	20	248	703	2	1	Mississippian	4,420			
Gerber ('57)	28-31-5W	80	5,661	75,824	2		Lans.-K.C.	3,570	6		
Gish ('57)	17-31-6W	640	30,428	651,046	17		Simpson	4,642	2		
Goheen ('58)	12-31-7W		Abandoned during 1962				Mississippian	4,349	7		
Grant ('57)	20-31-7W	260	169,828	628,827	13		Mississippian	4,310	24		
Harper ('58)	11-32-7W	40	2,438	28,104	2		"Elgin Sand"	4,696	13		
Hibbord ('57)	23-34-9W	120	3,947	17,323	4		Viola	3,058	4		
Miller ('55)	11-33-8W	40	no runs	19,210	1		Simpson	4,711	35		
Rex ('61)	1-32-5W	80	33,082	36,825	2	1	Mississippian	4,586	40		
Runymede ('53)	23-31-6W	160	19,161	190,804	4		"Misenner"	4,895	14		
Sharon* ('55)	13-32-10W	1,200	72,337	603,637	23		Simpson	4,628	5		
Spivey-Grabs-Basil* ('49)	13-31-9W	6,000	525,753	5,154,580	151	5	Simpson	4,648	6		
Stohrville ('57)	36-33-6W	280	16,250	127,375	7		Mississippian	4,355	10		
Sullivan ('61)	31-32-8W	40	6,641	7,664			Lans.-K.C.	3,727			
Zuercher ('59)	9-32-7W	220	72,576	208,377	6		Mississippian	3,727	14		
Pools or fields abandoned			49,997				Mississippian	4,400	29		
Total Harper County		9,340	975,944	7,972,533	241	8	Viola	4,511	3		
							Mississippian	4,461	7		
							Viola	4,670	6		
							Simpson	4,723	13		

HARVEY COUNTY

Alta Mills ('58)	29-22-2W	160	9,994	66,320	5	Simpson	3,677	5
Annelly ('62)	2-24-2E	160	18,710	18,710	4	"Burgess"	2,760	7
Burrton* ('31)	1-23-4W	Included with Reno County			1	Mississippi	3,266	43
Burrton East ('60)	28-23-3W	40	656	2,820	1	Mississippi	3,288	51
Burrton Northeast ('42)	3-23-3W	120	2,585	27,217	4	"Chat"	3,224	
DuBois* ('57)	3-25-2E	880	216,644	644,635	22	"Burgess"	2,830	8
DuBois East ('59)	36-24-2E	220	Combined with DuBois		1	"Burgess"	2,835	10
Gingress ('57)	17-24-2E	220	18,531	132,008	9	"Burgess"	2,831	2
Graber* ('34)	32-21-1W	40	1,625	169,237	1	"Hunton"	3,226	2
Halstead ('29)	36-22-2W	880	36,423	2,270,511	20	"Misener"	3,323	41
Halstead West ('60)	10-23-2W	480	17,845	320,000	4	"Hunton"	3,274	24
Harmac*	35-21-3W	Included with McPherson County			13	"Chat"	2,665	3
Hollow-Nikkel* ('31)	30-22-3W	2,000	132,721	22,065,704	57	"Hunton"	3,005	30
Muir ('60)	4-32-7W	80	141	23,105	1	"Hunton"	3,160	6
Sperling ('35)	23-22-2W	300	9,621	923,710	8	Mississippi	3,292	20
Sperling South ('57)	23-22-2W		23,174	341	1	Simpson	3,299	10
West Branch ('58)	23-23-2E	160	3,700	36,093	4	Mississippi	2,954	13
Pools or fields abandoned				124,440	1	Viola	3,386	6
Total Harvey County		5,520	584,893	26,931,333**	155	"Burgess"	2,773	2

HASKELL COUNTY

Eubank ('58)	28-28-34W	1,680	138,613	2,386,862	10	Lansing	4,112	34
			113,985		12	Marmaton	4,692	17
Eubank North ('59)	4-28-34W	60	95,041	70,598	17	Cherokee	5,171	22
Hopkins* ('60)	34-30-33W	40	459,046	20,252	28	Morrowan	5,439	6
Koenig ('58)	12-29-34W	80	3,563	20,072	2	Mississippi	5,195	37
Koenig East ('61)	9-29-33W	40	7,111	34,789	1	Morrowan	5,378	7
Lemon ('62)	33-30-33W	40	10,600	20,936	2	Morrowan	5,294	8
Lemon North ('61)	33-29-33W	40	589	589	1	Morrowan	5,272	28
Lemon Northwest ('61)	17-30-33W	640	Combined with Lemon Northwest		1	Lansing	4,754	37
			120	158,501	2	Marmaton	4,084	2
			144,504		12	Lans.-K.C.		
			2,895		1			
			6,222		2			

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd. 1962	Name	Oil prod.	Thick- ness, ft.	Aver- age
			during 1962	to end, 1962						
HODGEMAN COUNTY										
Pleasant Prairie* ('54)	4-27-34W	3,200	518,000#	2,326,000#	84		Morrowan	4,959	9	
Satanta ('57)	21-30-34W	80	7,459	103,409	2		Mississippian	5,041		34
Victory ('60)	32-30-33W	500	258,027	324,060	19		Morrowan	5,370	10	38
			25,590		5		Lansing	4,126	10	39
			2,898		1		Marmaton	4,750		
Total Haskell County		6,360	1,814,515	5,445,816**	187	6				
HODGEMAN COUNTY										
Cam ('60)	30-22-24W		no report	545			Mississippian	4,620	4	
Eakin ('62)	23-21-21W	40	915	915	1		Mississippian	4,281	8	
Goebel ('59)	14-21-24W		no report	5,591			Mississippian	4,420	5	37
Hallet ('56)	15-22-25W	680	168,208	938,202	20		Mississippian	4,598	40	38
Hanston ('61)	8-22-22W		Combined into Hanston-Oppy				Mississippian	4,477	27	35
Hanston-Oppy ('61)	22-22W	1,600	314,752	320,887	46		Mississippian	4,485	8	37
Jarnagin ('62)	11-23-23W	40	2,468	2,468	1		Mississippian	4,580	12	37
Jetmore ('50)	24-22-24W	200	20,880	131,948	5	1	Mississippian	4,534	3	
Jetmore East ('59)	30-22-23W	120	52,203	112,715	5		Cherokee	4,558	8	30
			Combined with Jetmore				Mississippian	4,665	20	38
Jetmore West ('57)	23-22-24W	40	4,839	4,839	1		Mississippian	4,622	20	32
Lappin ('62)	33-23-23W	80	10,621	56,963	2		Mississippian	4,625	7	37
Nova ('59)	17-22-23W	80	16,615	56,959	2		Mississippian	4,516	7	34
Nova North ('60)	8-22-23W		Combined into Hanston-Oppy				Mississippian	4,414	23	36
Oppy ('61)	19-22-22W		Combined into Hanston-Oppy				Mississippian	4,276	9	35
Oppy East ('62)	21-22-22W	40	5,745	5,745	1		Cherokee	4,280		36
Oppy South ('62)	36-22-23W		no report	none			Penn. congl.	4,651	18	
Ploger ('57)	10-21-25W	160	36,518	892,427	4		Mississippian	4,284	11	21
Purdyville ('51)	3-24-24W		16,514	196,972	5		Marmaton	4,478	8	
Saw Log Creek ('53)	36-23-22W	200	2,406	2,406	1		Mississippian	4,497	7	38
Stairrett ('62)	24-21-25W	40	7,059	7,059	1		Mississippian	4,391	3	
Valley ('58)	7-21-24W	40	155	34,503	3		Mississippian	4,380	16	38
Wieland ('56)	16-21-22W	120	12,765	362,170	10		Cherokee	4,275	10	38
Wieland North ('59)	9-21-22W	680	164,680				Mississippian	4,346	10	38
Wieland West ('60)	18-21-22W	160	81,117	192,055	4	1	Mississippian	4,364	16	36
Total Hodgeman County		4,320	911,401	3,325,369	112					
JOHNSON COUNTY										
Dallas ('38)	8-13-25E	60	199		3					

Gardner ('39)
Miscellaneous
Total Johnson County

14-22E	680	23,862	32	Marmaton
	20	193	1	
	760	24,254	36	

KEARNY COUNTY

Campbell ('62)
Lakin ('57)
Patterson ('41)
Pleasant Prairie* ('54)
Total Kearny County

9-21-35W	no report	none		Marmaton
34-25-36W	43,462	168,232	2	Mississippi
23-22-38W	31,326	729,267	3	"Patterson"
4-27-34W	80	16,580	2	Morrowan
	280	91,368	7	Mississippi
		1,005,907		5,041

KINGMAN COUNTY

Alameda ('58)

23-28-7W	1,400	50,323	6	Lansing
		413,808	36	Viola

Bartholomew* ('48)

30-27-4W	Included with Sedgwick County	65,175		Simpson
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Basil Northeast ('60)
Bickel ('62)
Bolinger ('57)
Broadway ('50)
Broadway West ('54)
Casley ('52)
Cunningham* ('31)
Dale ('59)
Dewey ('50)
Dresden ('51)

14-29-7W	Combined with Spivey-Grabs-Basil	664	1	Lans.-K.C.
15-28-6W	40	664		Mississippi
29-28-5W	240	45,273	7	Mississippi
21-28-5W	980	86,019	34	Mississippi
19-28-5W	380	52,317	8	Mississippi
11-28-5W	320	18,938	8	Mississippi
7-28-11W	800	40,776	20	Lans.-K.C.
35-28-6W	no report	3,530,895		Mississippi
9-28-5W	340	21,948	6	Mississippi
13-27-10W	40	3,371	1	Lans.-K.C.

Gilchrist ('55)

15-30-7W	Combined into Spivey-Grabs-Basil			Viola
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Goetz ('56)

29-29-9W	480	15,949	13	Lans.-K.C.
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Hurn ('60)
Klaver ('60)
Kostner ('60)
Lansdowne North ('51)
Lock ('59)
Orsemus ('53)

28-27-5W	40	1,492	1	Mississippi
9-29-6W	80	7,085	2	Mississippi
1-29-6W	40	996	1	Mississippi
4-28-5W	40	756	1	Mississippi
13-30-7W	40	1,548	1	Mississippi
30-29-5W	160	45,271	4	Viola

Orsemus South ('54)
Pat Creek ('46)

31-29-5W	no report	450		Simpson
20-28-9W	120	6,538	3	Viola

Reida ('55)

18-30-6W	80	4,668	2	Simpson
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Reida South ('57)
Reida West ('55)

19-30-6W	160	19,153	4	Lans.-K.C.
23-30-7W	Abandoned during 1962	97,671		Simpson

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abandoned, 1962	Producing zone		
			during 1962	to end, 1962			Name	Depth, ft.	Thickness, ft.
Rosedale ('54)	32-29-6W	480	48,251	506,865	13		Lans.-K.C.	3,691	5
Rosedale Northeast ('60)	28-29-6W	180	22,926	86,898	3		Lans.-K.C.	3,555	5
							Mississippian	4,149	7
							"Misener"	4,495	3
Saylor ('58)	6-27-9W		16,705		1		Mississippian		
Settle ('56)	18-29-7W	80	Abandoned during 1962	2,881	1		Mississippian	4,110	
			132		1		Viola	4,509	3
Smoots Creek ('59)	1-27-8W	40	5,945	33,401	1	1	Kansas City	3,350	3
Spivey-Grabs-Basil* ('49)	13-31-9W	16,000	3,423,060	17,080,894	482	1	Lans.-K.C.	3,727	
							Mississippian	4,400	14
							Viola	4,511	3
Willowdale ('54)	11-29-9W	480	28,239	1,136,438	9	2	Viola	4,502	4
Pools or fields abandoned									
Total Kingman County		23,040	4,383,235	28,463,953	689	6			
KIOWA COUNTY									
Alford ('44)	14-30-19W	40	2,941	25,225	1		Mississippian	5,040	
Belvidere ('62)	17-30-16W	40	2,707	2,707	1		Viola	4,880	6
Booth ('58)	19-30-17W		Abandoned during 1962				Mississippian		
Eaton ('61)	35-27-17W	40	3,051	5,894	1		"Kinderhook"	4,712	7
Fralick ('60)	14-27-20W	80	27,269	45,588	2		Mississippian	4,790	5
Fralick South ('62)	35-27-20W	40	2,211	2,211	1		Mississippian	4,862	14
Fralick West ('61)	16-27-20W		no report	none			Mississippian	4,831	10
Fruit ('60)	28-27-16W	160	7,465	11,904	4		Cherokee	4,649	7
							Mississippian	4,621	6
Glick* ('57)	31-30-16W	9,280	20,504	37,658	21		Mississippian	4,880	
Greensburg ('56)	35-27-18W		no report	4,985			"Kinderhook"	4,742	
Haviland ('55)	17-28-16W	160	3,467	38,729	3		"Kinderhook"	4,761	9
Johannsen ('54)	24-28-19W	40	1,635	30,192	1		Lans.-K.C.	4,284	4
Mullinville ('55)	11-28-20W		no report	32,040			Mississippian	4,890	8
Nichols ('55)	20-29-18W	2,200	494,817	4,357,845	79		Mississippian	4,997	
Pyle ('55)	16-29-16W	40	4,489	80,690	1		Mississippian	4,666	14
Pyle Southwest ('62)	19-29-16W	80	11,164	11,164	2		Mississippian	4,706	2
Quaker ('61)	10-27-19W	120	14,423	21,625	2		Lans.-K.C.	4,204	7
							Mississippian	4,800	2
Soldier Creek ('55)	24-29-16W		no report	42,954	1		Cherokee	4,599	
							Mississippian	4,598	10
Trousdale South ('56)	4-27-16W	40	472	10,107	1		"Kinderhook"	4,525	33
Wellsford ('55)	15-28-16W	80	5,494	92,382	2	2	Marmaton	4,680	
Pools or fields abandoned							Cherokee	4,723	10
Total Kiowa County		12,440	602,272	55,727	133	2			

LABETTE COUNTY

Altamont	33-19E	10	25	1	"Bartlesville"	540	
Chetopa	36-34-20E	80	1,316	3	Arbuckle	850	23
Coffeyville-Cherryvale*	32-17E	2,400	63,540	74	"Wayside"	400	
					Fort Scott	600	
Dartnell	31-17E	120	863	4	"Bartlesville"	1,000	
Edna ('25)	34-18E	200	1,645	5	"Bartlesville"	580	24
Lake Creek	1-35-19E	40	1,863	2	Arbuckle	1,191	
Mound Valley	32-18E	340	11,261	27	Arbuckle	630	
					"U. Bartlesville"	700	
Mound Valley South	33-18E	20	127	1	"L. Bartlesville"	900	
Price ('17)		720	20,431	39	Mississippian	600	30
Tackett		20	317	1	"Bartlesville"		
Miscellaneous		20	41	1+			
Total Labette County		3,970	101,429	158			
			recorded	2			

LANE COUNTY

Broughton ('62)	10-16-27W	40	3,203	1	Lans.-K.C.	4,062	1 38
Demand ('62)	25-16-28W	40	6,160	1	Fort Scott	4,512	6
Pendennis ('61)	28-16-27W	80	17,476	2	Lans.-K.C.	3,969	4 39
Pendennis South ('62)	33-16-27W	60	10,006	1	Lans.-K.C.	3,975	11 40
Selfridge ('62)	9-17-27W	40	5,077	1	Cherokee	4,498	11
Pools or fields abandoned			10,974				
Total Lane County		260	49,922	6			

LINN COUNTY

Beagle*	19-22E		no report		"Squirrel"	480	
Centerville* ('20)	10-21-22E	720	12,633	120	"Bartlesville"	720	
Goodrich-Parker ('22)	25-20-21E	1,500	22,043	140	"Squirrel"	600	20
LaCygne-Cadmus	20-24E	620	14,556	95	"Bartlesville"	700	
					Bandera	150	20
Miscellaneous		60	699	6	Labette	200	
Total Linn County		2,900	49,931	361			
			recorded	5			

LOGAN COUNTY

Monument ('59)	18-11-33W	40	1,205	1	Lansing	4,154	4
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Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd., 1962	Name	Producing zone		
			during 1962	to end, 1962				Depth	Thick- ness, ft.	Aver- age
LYON COUNTY										
Atyeo-Pixlee* ('23)	7-22-10E	900	21,281		32	23	"Bartlesville"	2,200	32	
Bradfield ('21)	24-21-10E	540	51,256		27	13	Viola	2,500		
Fankhouser* ('26)	4-22-12E	580	16,890		28	2	"Bartlesville"	1,850	41	
Ly-Green* ('54)	5-22-11E	40	403	27,432	1	2	"Bartlesville"	1,858		
Ritchey-Moore* ('25)	34-21-10E	20	1,419		1		Mississippian	2,170	36	
Rock Creek ('47)	32-21-11E	220	10,752		6		"Bartlesville"	1,900	12	38
Total Lyon County.		2,300	102,001	8,601,263 recorded	95	40				
McPHERSON COUNTY										
Battle Hill ('45)	24-18-1W		no report	52,854			"Chat"	2,825	10	36
Battle Hill North ('48)	13-18-1W	40	4,402	135,335	1		Mississippian	2,811	17	36
Burch ('59)	32-17-1W	40	14,756	45,936	13		Mississippian	2,655	10	34
Canton North ('36)	26-18-1W	580	24,872	861,390	13		"Chat"	2,803	29	34
Chindberg ('29)	18-19-2W	880	43,068	1,992,781	25		Lans.-K.C.	2,363	19	37
Coons ('40)	13-19-1W	40	1,756	25,745	1		"Chat"	3,007		
Crowther ('42)	26-17-1W	1,180	68,281	3,750,904	29		"Chat"	2,778	34	
Elyria ('58)	22-20-3W	520	21,860	174,274	13	4	Mississippian	3,068		
Fanska South* ('60)	18-17-1E		no report	none			Mississippian	2,819	80	36
Georob ('47)	31-17-1W	1,680	157,567	3,719,380	52	1	"Chat"	2,665	3	34
Goessel ('58)	12-21-1W	360	28,347	225,120	18	2	"Hunton"	3,407	3	33
Gottland ('59)	3-18-3W		no report	463			Simpson	3,634	10	29
Grabber* ('34)	32-21-1W	3,820	212,131**	14,654,304**	100	16	"Misener"	3,323	41	
Grabber East ('61)	15-21-1W		no report	none			"Hunton"	3,274	24	
Graber North ('51)	4-21-1W	40	301	6,133	1		"Hunton"	3,403	6	38
Groveland ('53)	10-20-4W		no report	17,473			Mississippian	2,955	8	38
Groveland Northeast ('58)	2-20-4W	80	6,906	50,390	3	1	Viola	3,728	6	
Groveland South ('53)	14-20-4W	440	37,929	700,930	19		"Misener"	3,715	6	
Gypsum Creek* ('44)	4-17-1W	380	14,782	543,339	10		Viola	3,719	6	
Harmac* ('55)	35-21-3W	600	47,285	635,621	17	1	"Chat"	2,619	14	36
			Includes Harvey County portion				"Hunton"	3,521	4	40
Henne ('40)	21-17-1W	640	33,910	1,759,644	16		"Chat"	2,658	5	36
Hollow-Nikkel* ('31)	30-22-3W		Included with Harvey County				"Chat"	3,195	13	40
Jenday ('44)	1-19-2W	800	21,805	1,107,086	21	1	Tarkio	1,438	9	37
Johnson ('32)	35-19-3W	1,000	51,413	3,786,878	17		"Chat"	2,984	15	36

Johnson South ('50)	11-20-3W		no runs	27,845**		Mississippi Simpson	3,043	3
Larson ('58)	33-18-2W	Combined with Ritz-Canton 40					3,514	6
Larson North ('60)	27-18-2W		368	3,328		Mississippi	2,965	15
Lindsborg* ('38)	8-17-3W		5,000	264,175	9,633,804	Mississippi Viola	2,919 3,352	12 21
Lindsborg South ('55)	6-18-3W	180	15,127	136,829		Simpson	3,360	10
McMurtry ('60)	13-18-4W	80	6,635	21,805		Simpson	3,523	4
McPherson ('26)	29-18-2W	1,840	105,180	2,397,405		Maquoketa Lans.-K.C. "Chat"	3,476 2,340 2,967	6 38 11
Maxwell ('48)	17-18-1W	160	750	60,834		Viola	3,140	6
Paden ('43)	10-18-1W	1,800	257,901	5,540,404		Mississippi "Chat"	2,846 2,752	11 18
Ritz-Canton ('29)	1-20-2W	17,000	1,396,112	56,356,625		Viola Lans.-K.C. "Chat"	3,153 2,324 2,935	41 31
Round Hill ('56)	28-18-1W	140	8,401	114,357		Maquoketa	3,395	3
Roxbury ('38)	18-17-1W	840	42,425	3,576,833		Viola	3,412	4
Roxbury South ('42)	30-17-1W	640	21,722	568,982		Cherokee	2,832	9
Voshell ('29)	9-21-3W	3,000	166,359	30,422,686		Mississippi "Chat"	2,853 2,684	10 5
Welch-Bornholdt* ('24)	35-20-6W	3,200	150,824	14,700,003		Simpson	3,278	35
Pools or fields abandoned						"Chat"	2,658	7
Total McPherson County		47,040	3,227,350	158,087,097**	1,235	"Chat"	3,095	15
					70	Viola	3,301	3
						"Chat"	3,370	34
MARION COUNTY								
Bartell ('61)	36-19-2E	40	106	106		Mississippi	2,495	2
Covert-Sellers ('20)	28-21-4E	1,000	35,328		1	Kansas City	1,674	4
Dobbs ('60)	22-19-3E	Combined with Lost Springs			4	Viola	2,400	37
Doyle Creek ('58)	6-22-3E	no report				"Hunton"	2,367	6
Durham ('53)	34-18-2E	260	12,030	251,444	6	Viola	2,891	8
Edmonds* ('53)	31-22-4E	560	28,330	647,542	16	Mississippi	2,899	2
Elbing* ('18)	18-23-4E	160	5,474		6	Kansas City	2,471	3
Elbing North ('47)	27-22-4E	540	31,747	143,271	14	Mississippi	2,120	35
Fairplay ('57)	25-21-4E	240	67,775	452,166	11	Viola	2,400	
Fanska ('43)	6-17-1E	60	2,530		3	"Chat"	2,530	
Fanska South* ('60)	18-17-1E	100	10,543	33,469	3	Mississippi	2,439	80
Florence ('20)	18-21-5E	100	2,919		3	Viola	2,458	36
French Creek ('55)	22-19-2E	no report				Simpson	2,429	32
Hillsboro ('28)	7-19-3E	40	3,348	10,194	4	Mississippi	3,020	33
Lalouette ('57)	10-21-5E	40	1,924	28,437	1	Viola	2,470	
Lehigh ('46)	27-19-1E	120	2,480	134,579	3	"Hunton"	2,820	6

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Name	Depth, ft.	Thick- ness, ft.	Aver- age
			during 1962	to end, 1962					
Producing zone									
Lehigh North ('53)	23-19-1E		no report	9,668		Viola	3,225	4	30
Lost Springs* ('26)	22-17-4E	30,000	1,818,404		765	Mississippian	2,365		
Nonken ('59)	28-22-4E	20	240	1,864	1	Viola	2,757	20	
Peabody ('20)	9-22-4E	1,440	86,078		38	Mississippian	2,439	13	31
Ratzlaff ('56)	7-19-2E		no report	52,840		Viola	2,500		
Shank South ('59)	13-22-3E	20	4,240	18,054	1	Mississippian	3,135	5	
Unger ('55)	8-21-3E	3,000	469,464	5,371,708	97	"Hunton"	2,510	6	39
Wenger ('47)	11-21-3E	320	6,799	992,440	8	"Hunton"	2,770		37
Youk ('54)	20-18-2E	80	4,515	57,362	2	Viola	3,017	3	21
Total Marion County		38,140	2,594,274	52,762,680 recorded	1,009				
MEADE COUNTY									
Adams Ranch ('48)	8-35-30W	5,000	23,570 11,914	249,153	23	Marmaton	5,346	40	40
Angell ('56)	30-32-29W	80	1,060	7,057	3	Morrowan	5,708		
Bond ('54)	32-33-30W	80	155	12,464	4	Chesteran	5,930	32	39
Borchers North ('59)	5-33-28W	260	20,696	60,204	10	Morrowan	5,608	56	
Borchers Northwest ('59)	1-33-29W	120	4,620	28,413	3	Atokan	5,619	12	38
Bromwell ('52)	7-34-29W	40	no runs	3,958	1	Mississippian	5,860	26	
Bruno ('53)	20-33-30W	40	7,143	108,752	1	Morrowan	5,521	56	
Bruno Northeast ('53)	16-33-30W	40	4,810	77,892	1	Morrowan	5,607	8	
Cimarron Bend ('59)	12-35-29W	120	8,378	52,053	4	Morrowan	5,656	18	37
Fincham ('56)	14-35-27W	80	2,945	10,695	2	Morrowan	5,721	10	39
Hockett ('57)	8-31-29W	160	1,167	8,010	5	Mississippian	5,810	17	
Horace ('56)	9-34-29W		no report	1,163		Morrowan	6,275	4	23
Kismet* ('48)	23-33-31W	80	576	7,829	1	Mississippian	5,390	29	
McKinney* ('50)	2-34-26W	1,500	33,235	308,101	2	Marmaton	5,815		
Mohler ('57)	35-33-29W	140	18,859	120,358	56	Morrowan	5,095		
Mohler Northeast ('58)	36-33-29W	320	2,782	33,506	7	Mississippian	5,762	66	65
Novinger ('51)	26-33-30W	2,200	348,599	3,596,067	11	Morrowan	5,259	8	42
Novinger East ('57)	36-33-30W	120	12,624	18,691	34	Morrowan	5,769	15	
Novinger Northwest ('55)	15-33-30W	80	9,375	110,067	11	Morrowan	5,690	8	
Plains ('56)	17-32-30W	100	578	3,044	34	Marmaton	5,270	20	41
Sanders ('56)	13-32-29W	40	no runs	689		Morrowan	5,765	21	
					3	Mississippian	5,803		
					2	Morrowan	5,780	86	
					1	Lans.-K.C.	4,553	5	37
					6	Morrowan	5,611	33	
					2	Mississippian	3,695	15	
					2	Mississippian	5,550		

Singley ('55)	20-33-29W	660	60,303	688,707	26	Morrowan	5,803	16	40
Stevens ('52)	32-32-30W	1,400	194,023	2,228,473	36	Mississippian	5,889	5	38
Total Meade County		<u>12,660</u>	<u>767,412</u>	<u>7,735,346</u>	<u>243</u>	Mississippian	5,713		

MIAMI COUNTY

Beagle	19-22E	20	240		1	"Squirrel"	500	16	
Black	19-24E	60	423		2	"Knobtown"	270		
Block	18-24E	280	996		14	"Peru"	430		
Louisburg ('27)	17-25E	1,000	74,326		107	"Squirrel"	600		
Paola-Rantoul* (1860)	17-23E	11,000	225,159		946	"Knobtown"	300	25	
						Hepler	400	15	
						"Peru"	500	35	
						"Squirrel"	600		
						"Bartlesville"	700		

Miscellaneous
Total Miami County

160
12,520
1,267
302,411
19,212,263
recorded

MONTGOMERY COUNTY

Brewster	32-16E	700	12,383		28	"Bartlesville"	900		
Caney	35-14E	880	7,695		36	Arbuckle	1,320	21	
Coffeyville-Cherryvale* ('02)	33-17E	8,500	104,397		305	"Bartlesville"	400		
					29	"Wayside"	600		
						Fort Scott	1,000		
						"Bartlesville"	1,300		
						Arbuckle	1,700		
Coleman ('21)	28-32-14E	100	778		4	Arbuckle	800	15	
Elk City*	31-13E		no report			Marmaton	1,200		
Jefferson-Sycamore ('03)	18-33-15E	5,200	119,133		249	"Weiser"	950		
Neodesha*	31-16E	1,500	14,094		74	"Bartlesville"	800		
Sorghum Hollow	32-14E	2,600	42,207		131	"Bartlesville"	1,250	22	
Tyro ('04)	32-14E	1,800	25,366		60	"Weiser"	700		
Wayside-Havana* ('04)	13-35-14E	11,000	131,606		745	"Bartlesville"	1,200		
	34-14E				67	"Weiser"			

Miscellaneous
Total Montgomery County

40
32,320
457,791
47,631,648
recorded

MORRIS COUNTY

Burdick ('49)	15-17-5E	40	1,223	40,608	4	Mississippian	2,220	45	
Comiskey Northeast ('56)	24-16-9E	240	12,678	160,294	6	Viola	2,929	3	
John Creek ('53)	26-15-9E	2,000	414,890	2,487,881	54	Viola	3,090	6	

Table 34.—Oil production in Kansas during 1962, continued

TABLE 28.—OIL PRODUCTION IN IOWA BY COUNTY, 1962, TO DATE										
Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abdn. 1962	Name	Producing zone		
			during 1962	to end, 1962				Sp. Cr.	Thick- ness, ft.	Aver. grav.
MORTON COUNTY										
Latimer ('59)	14-15-5E		no report	721			Mississippian	2,157	24	33
Three Mile Creek ('50)	25-16-5E	60	966	105,066	2		Mississippian	2,208	50	36
Three Mile Creek South ('50)	35-16-5E	120	3,669	173,355	10	2	Mississippian	2,183	24	35
Total Morris County		2,460	433,426	2,968,613 recorded	76	5				
MORTON COUNTY										
Berryman ('62)	15-33-41W	360	36,295	36,295	9		Chase Group "Purdy"	2,222		
Boehm ('51)	14-33-42W	180	35,221	147,908**	3		Morrowan	5,001		
Elkhart West ('57)	17-35-43W	120	11,744	28,889	3		Morrowan			
Interstate ('54)	29-34-43W	3,200	1,043,186	5,529,391**	81		"Red Cave" Morrowan	1,184 4,210		38
Kinsler ('59)	33-31-40W	40	22,617	29,233	1		Des Moinesan Morrowan	4,336 5,176		
Kinsler Southeast ('60)	12-32-40W	80	764	1,593	2		St. Louis	5,464		
Richfield ('48)	17-32-40W	560	34,291	165,710	14		Morrowan	5,504		
Richfield West ('61)	2-32-42W	40	124	124	1		Atokan	4,990		
Shrauner ('60)	18-35-42W	40	180	843	3		Morrowan	4,624		
Sparks* ('54)	34-30-42W	120	17,599	42,852**	6		Morrowan	4,312	4	38
Taloga ('55)	34-34-42W	2,000	379,547	1,474,984	33	2	Morrowan	5,245		42
Taloga Northeast ('57)	19-34-41W	120	9,195	125,259	3		Cherokee Morrowan	4,397 4,674	11 10	38
Wilburton ('59)	32-34-41W	880	14,519 408,211	570,929	3		Shawnee Morrowan	4,808		
Total Morton County		7,740	2,020,988	8,154,010**	186	2				
NEMAHA COUNTY										
Strahm ('48)	27-2-14E	60	7,110	224,679	1		"Hunton" Viola	2,879	2	
Strahm East ('53)	26-2-14E		Combined with Strahm				"Hunton"	3,559		
Total Nemaha County		60	7,110	301,280	1			2,826	11	
NEOSHO COUNTY										
Erie ('03)	28-20E	6,000	76,535		309	3	"Bartlesville"	650	25	
Humboldt-Chanute*	27-18E	18,000	209,119		1,163	29	"Bartlesville"	700	23	
Ladore			no report							

30-30-18E	300	27,458	40	"Bartlesville"	800
Morehead ('38)	2,400	70,439	190	"Bartlesville"	550
St. Paul-Walnut*	240	7,044	8	"Bartlesville"	530
Thayer	2,100	69,399	134	"Bartlesville"	750
Trent	600	15,620	35	"Bartlesville"	
Urbana	30	1,361	3		
Miscellaneous	30,270	476,975	1,887		
Total Neosho County		27,379,624	47		
		recorded			
NESS COUNTY					
7-18-25W	4,500	154,523	50	Warsaw	4,428
23-17-25W	800	154,390	20	Marmaton	4,325
				Penn. congl.	4,334
				Mississippi	4,398
22-16-25W	300	22,952	6	Fort Scott	4,436
				Warsaw	4,528
10-16-25W	60	5,869	2	Mississippi	4,502
29-16-25W	800	40,055	4	Marmaton	4,380
				Mississippi	4,463
30-17-25W	40	no report	1	Mississippi	4,428
4-19-26W	320	2,527	8	Mississippi	4,556
36-16-21W	40	57,142	1	Cherokee	4,045
Delos ('62)	40	910	1	Marmaton	4,245
Dickman ('62)	200	22,320	5	Mississippi	4,424
11-17-26W	160	17,155	4	Mississippi	4,485
Elmore* ('58)	80	3,662	2	Cherokee	4,116
Franklin ('59)	40	2,472	1	Fort Scott	4,269
25-19-24W	80	13,539	1	Cherokee	4,120
24-20-25W	140	27,775	5	Mississippi	4,410
4-20-24W	80	12,420	2	Fort Scott	4,301
		2,209	1	Mississippi	4,374
29-17-22W	40	261	1	Conglomerate	4,226
21-18-24W	40	332	1	Cherokee	4,318
17-19-21W	80	7,346	2	Mississippi	4,339
36-18-24W	40	5,029	1	Mississippi	4,258
Nirvana ('62)	40	1,550	1	Mississippi	4,338
14-18-24W	180	11,416	6	Cherokee	4,054
Pabst ('58)	280	241,995	10	Mississippi	4,386
14-20-24W	80	54,897	3	Cherokee	4,100
35-18-21W	80	7,972	3	Mississippi	4,209
				Mississippi	4,270
Ryersee Southwest ('57)	Abandoned during 1962		1	Marmaton	4,272
Schoharie ('56)	40	964	1	Marmaton	4,385
Vermillion ('55)	40	1,975	1		
Pools or fields abandoned		69,465			
Total Ness County	8,420	737,263	155		
		8,062,036	5		
NORTON COUNTY					
12-5-22W	120	11,092	3	Lansing	3,314
4-3 22W	40	1,672	1	Reagan	3,543
				Reagan	3,528
Densmore ('57)					
Hen ('62)					

Table 34.—Oil production in Kansas during 1962, continued

TABLE 34.—Oil production in Kansas during 1962, continued										
Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells ab- d., 1962	Name	Producing zone		
			during 1962	to end, 1962				Depth, ft.	Average thickness, ft.	
Norton ('53)	36-3-24W	2,140	472,203	6,108,881	117		Arbuckle	3,778	12	31
Ray* ('40)	32-5-20W	520	101,880	955,966	15		Reagan Lans.-K.C. Arbuckle	3,297 3,575		
Ray North ('54)	13-5-21W		no report	none			Reagan	3,540	13	32
Ray West ('45)	26-5-21W	1,200	185,090	1,209,142	39		Arbuckle	3,544		
Spieess ('58)	35-5-25W	40	2,308	15,750	1		Arbuckle	3,650	9	31
West Union ('62)	21-5-21W	40	4,314	4,314	1		Lansing	3,645	3	35
Pools or fields abandoned				32,505			Reagan	3,678	3	17
Total Norton County		4,100	778,559	8,394,396	177					
OSBORNE COUNTY										
Ruggles ('52)	23-10-15W	640	56,693	803,835	13		Shawnee	2,986		30
							Lans.-K.C.	3,024		
Ruggles South ('57)	27-10-15W	40	1,660	17,580	1		Penn. congl.	3,394	16	
Worley ('59)	33-10-15W		no report	1,643			Lans.-K.C.	3,038	4	28
Total Osborne County		680	58,353	823,058	14		Penn. congl.	3,408	5	36
PAWNEE COUNTY										
Ash Creek (revived) ('62)	31-20-15W	200	11,782	252,277	7	1	Arbuckle			
Ash Creek Southwest ('62)	11-21-16W		Included with	121,024			Arbuckle			7
Benson ('45)	30-23-15W	1,600	82,571	1,303,573	21		Lans.-K.C.	3,853	68	27
Bow ('58)	31-22-15W	40	6,511	52,657	1		Lansing	3,625	7	
							Arbuckle	3,966	2	
Browns Grove ('57)	17-20-20W		no runs	45,837			Mississippian	4,325	3	
Carpenter ('55)	25-23-17W	40	1,872	35,472	1		Marmaton	4,123		
							Penn.-Miss.	4,158	10	
							"Kinderhook"	4,270	6	
Dunes ('53)	22-22-15W	540	25,859	572,542	8		Arbuckle	3,956	24	36
Dunes Southwest ('53)	33-22-15W		Abandoned during 1962				Lans.-K.C.	3,728	8	20
Dunes West ('58)	21-22-15W		no report	1,541			Arbuckle	3,974	6	31
Evers ('51)	1-22-16W	320	11,942	402,734	4		Lans.-K.C.	3,525	6	34
							Penn. congl.	3,814		
							Simpson	3,861	4	
Garfield ('47)	17-23-17W	7,500	306,304	7,608,206	205	9	Arbuckle	3,908	11	
							Penn.-Miss.	4,279		
Hearn ('53)	35-23-15W		Abandoned during 1962				"Kinderhook"	4,276	5	
							Lans.-K.C.	3,833		
							Arbuckle	4,130	5	

Jac ('58)	30-21-15W	40	no runs	339	1	Arbuckle	3,871
Jay ('54)	3-23-15W	360	18,342	330,806	9	Lans.-K.C.	3,668
						Simpson	4,025
Jay South ('56)	9-23-15W	40	4,541	43,696	1	Simpson	4,101
Jessie ('58)	36-21-15W	40	2,669	18,637	1	Lans.-K.C.	3,601
Larned ('49)	28-21-16W	1,800	324,907	4,789,378	46	Arbuckle	3,877
Lovett ('54)	35-22-15W	80	4,929	63,529	2	Lans.-K.C.	3,682
Merritt ('57)	35-21-20W		Abandoned during 1962			Cherokee	4,208
Newsom ('56)	25-20-20W		Abandoned during 1962			Mississippian	4,270
Orange ('58)	33-23-17W		Abandoned during 1962			Penn. congl.	4,204
Oro ('53)	9-20-19W	520	66,009	1,004,464	12	Penn. congl.	4,179
Oro Southeast ('61)	23-20-19W	280	97,105	122,739	8	Cherokee	3,832
Pawnee Rock* ('36)	13-20-16W	1,800	59,835	4,834,107	33	Arbuckle	4,028
Rice ('59)	12-23-15W		no report	7,807	4	Arbuckle	3,815
Rutherford ('46)	8-20-16W	300	8,756	376,429	2	Arbuckle	3,656
Ryan* ('45)	35-19-16W	80	9,575	587,875	2	Arbuckle	3,688
Ryan Southeast ('45)	12-20-16W	40	no runs	342,644	2	Arbuckle	4,067
Shady ('48)	35-22-16W		no report	6,038		Lans.-K.C.	3,705
Shady Southwest ('53)	3-23-16W		no report	80,167		Arbuckle	4,094
Shiley ('54)	14-20-20W	160	6,345	231,972	4	Penn. congl.	4,173
Shiley East ('54)	18-20-19W	120	16,460	297,887	5	Cherokee	4,223
Sweeney ('53)	8-21-15W	80	1,760	65,567	2	Arbuckle	3,831
Sweeney Southwest ('55)	25-21-16W		no report	6,833	1	Arbuckle	3,901
Sweeney West ('57)	14-21-16W	100	11,111	58,933	4	Simpson	3,781
Zook ('42)	16-23-16W		no report	7,016	1	Arbuckle	3,833
Pools or fields abandoned				92,004		Arbuckle	4,066
Total Pawnee County		16,080	1,079,185	23,764,730	386		
PHILLIPS COUNTY							
Beckman ('51)	3-4-19W	80	5,694	25,574	2	Lans.-K.C.	3,201
Bow Creek ('39)	25-5-18W		no report	85,736		Lans.-K.C.	3,111
Dayton ('41)	36-2-19W	1,640	79,998	1,442,959	25	Lans.-K.C.	3,430
Fredericksburg ('52)	4-1-18W	400	35,806	107,159	12	Lans.-K.C.	3,457
Glenwood ('51)	21-1-17W		no report	31,705		Lans.-K.C.	3,597
Hansen ('43)	14-5-20W	1,300	152,851	3,779,748	38	Lans.-K.C.	3,363
Hansen West ('52)	15-5-20W	40	2,313	47,620	1	Arbuckle	3,530
Huffstutter ('49)	6-2-18W	6,400	484,404	5,723,407	163	Arbuckle	3,543
Huffstutter Southwest ('51)	23-2-19W	200	15,824	230,280	5	Lans.-K.C.	3,444
Logan ('45)	3-5-20W	520	52,615	704,713	14	Lans.-K.C.	3,458
Mont-Sol ('54)	1-4-19W	200	15,582	183,998	6	Arbuckle	3,381
Mont-Sol South ('61)	18-4-18W	200	5,532	5,532	6	Lans.-K.C.	3,255
Ray* ('40)	32-5-20W	4,400	1,220,337	26,763,127	150	Lans.-K.C.	3,132
Slinker ('51)	25-4-20W	520	92,026	476,792	13	Arbuckle	3,297
Stony Point ('59)	18-5-20W		no runs	5,045		Reagan	3,575
Stuttgart ('50)	14-3-19W	400	16,479	488,176	10	Lans.-K.C.	3,215
						Lans.-K.C.	3,265
						Lans.-K.C.	3,146

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells ab- d., 1962	Producing zone		
			during 1962	to end, 1962			Name	Depth, ft.	Average thickness, ft.
Stuttgart South ('51)	23-3-19W	80	3,902	43,402	2		Lans.-K.C.	3,291	3
Van Dyke ('59)	1-2-19W	40	414	3,006	1		Lansing	3,428	3
Pools or fields abandoned				10,576					36
Total Phillips County		16,420	2,183,277	40,158,555	448				
PRATT COUNTY									
Blowout ('52)	8-27-14W	40	1,243	20,500	1		Lans.-K.C.	3,929	7
Bracehear ('62)	30-28-13W	40	7,210	7,210	1		Simpson	4,451	6
Brehm ('61)	23-28-13W	360	16,229	76,395	2		Simpson	4,390	8
			58,067		7		Arbuckle	4,246	11
							Lans.-K.C.	3,848	35
Cairo North ('54)	6-28-11W	40	2,462	69,040	1		Viola	4,314	4
Carver-Robbins ('55)	21-27-15W	200	11,148	50,878	2	2	Lans.-K.C.	3,980	4
			9,643		2		Penn. congl.	4,472	38
							Mississippian	4,509	5
							Viola	4,534	4
							Penn. congl.	4,400	9
Carver-Robbins Northeast ('56)	10-27-15W	Combined with Carver-Robbins							
Chance ('46)	4-27-13W	1,200	66,324	3,941,945	54	5	Marmaton	4,137	34
							Mississippian	4,254	34
							Viola	4,250	10
							Simpson	4,380	
Chance Northwest ('54)	29-26-13W	80	2,051	91,094	2		Arbuckle	4,432	25
Chitwood ('43)	23-28-12W	2,000	185,385	11,507,101	67		Simpson	4,422	8
							Lans.-K.C.		35
							Viola		40
							Simpson	4,396	14
Clara* ('48)	36-29-14W	140	2,443	219,225	4		Arbuckle	4,472	4
Coats ('44)	24-29-14W	120	1,256	459,604	3		Simpson	4,402	12
							Arbuckle		
Coats North ('54)	12-29-14W	no report		108,314			Marmaton	4,342	10
							Simpson	4,584	16
Coats West (revived) ('62)	23-29-14W	120	16,693	16,693	3		Simpson	4,521	13
Cullison ('56)	25-28-15W	80	1,909	11,277	2		Cherokee	4,543	13
							Mississippian	3,390	7
Cunningham* ('31)	7-28-11W	3,400	81,316	5,384,898	70		Lans.-K.C.	4,330	41
							Viola	4,501	10
Eads* ('59)	33-29-14W	120	9,563	71,778	3		Viola	4,223	35
Earl ('54)	36-28-14W		no report	111,859			Lans.-K.C.	4,520	14
							Simpson	4,493	17
Earl North ('55)	36-28-14W	40	9,810	68,238	1		Simpson	4,056	3
Fitzsimmons ('53)	30-27-13W	120	6,662	160,979	3		Lans.-K.C.		36

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		31-27-13W	320	11,819	203,636	8	Lans.-K.C. Simpson	4,124 4,435	38
Fitzsimmons South ('54)		5-26-13W	400	23,664	615,189	8	Lans.-K.C.	4,435	10 38
Frisbie ('43)		4-26-13W	400	12,885	445,990	10	Lans.-K.C.	3,947	8 33
Frisbie Northeast ('48)							Viola	3,788	19 27
							Simpson	4,170	17
Gereke North ('61)		1-26-15W	40	11,353	11,353	1	Simpson	4,274	
Gereke Northwest ('62)		1-26-15W	80	13,801	13,801	2	Simpson	4,390	11 38
Haskins ('56)		5-27-14W	40	3,357	44,101	1	Lans.-K.C.	3,798	
Hopewell ('58)		17-26-15W	40	1,065	2,805	1	Viola	4,350	14 28
Luka-Carmi ('37)		11-27-13W	8,000	592,234	23,374,901	241	Lans.-K.C.	4,118	8 31
							Marmaton	4,418	
							Mississippian	3,887	8
							Viola	4,012	
							Simpson	4,112	24
							Arbuckle	4,195	
							Arbuckle	4,292	
							Viola	4,354	
Iuka-Carmi Northwest ('53)		26-26-13W	160	9,174	197,374	5	Simpson	4,217	16 37
							Arbuckle	4,276	
Jem ('61)		28-29-13W	160	21,971	40,283	3	Simpson	4,358	18 37
						1	Viola	4,466	14 35
Lion Northeast ('54)		21-27-11W	80	3,625	69,526	2	Simpson	3,796	3 38
Ludwick ('44)		4-29-13W	40	no report	39,310	1	Lans.-K.C.	4,490	27 39
Ludwick Northeast ('60)		28-28-13W	40	2,877	11,913	1	Simpson	4,418	5 36
Moore ('49)		1-26-14W	200	11,454	395,094	6	Lans.-K.C.	3,906	
							Viola	4,234	37
Moore Southwest ('53)		11-26-14W	540	29,098	281,362	7	Simpson	4,348	38
						1	Lans.-K.C.	3,846	
							"Kinderhook"	4,246	
Moore West ('59)		4-26-14W	80	18,317	51,860	2	Simpson	4,364	2
Park ('59)		14-27-11W	120	18,164	46,286	3	Lansing	3,810	2 32
Randle ('55)		5-26-14W	80	10,694	92,089	2	Lansing	3,620	4 34
Reil ('57)		10-29-14W	40	1,153	9,972	1	Lans.-K.C.	3,946	8 35
Rollingson ('58)		30-27-12W	240	101,867	398,060	11	Marmaton	4,439	5 38
Sawyer ('57)		26-29-13W	540	87,387	313,856	13	Simpson	4,306	6 38
							Lans.-K.C.	4,096	4
							Simpson	4,607	4
Sawyer North ('60)		24-29-13W		no report	7,392	1	Arbuckle	4,678	5
School Teacher ('57)		27-28-11W	40	884	7,092	1	Lans.-K.C.	3,926	13
Shriver ('44)		33-29-14W	360	81,080	929,814	9	Viola	4,331	16 40
Slade South* ('62)		35-25-12W	80	335	335	3	Simpson	4,557	7 39
Tallock ('54)		28-26-15W	40	2,751	85,894	2	Lans.-K.C.	3,925	4 39
Tallock Southwest ('58)		30-26-15W	80	124	1,780	3	Congl. sand	4,376	
							"Kinderhook"		
Pools or fields abandoned					1,014,672				
Total Pratt County			20,300	1,565,291	51,142,788	577			12

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd., 1962	Producing zone		
			during 1962	to end, 1962			Name	Depth, ft.	Thickness, ft.
Norton ('53)	36-3-24W	2,140	472,203	6,108,881	117		Arbuckle Reagan	3,778	12
Ray* ('40)	32-5-20W	520	101,880	955,966	15		Lans.-K.C. Arbuckle	3,297	
							Reagan	3,575	
Ray North ('54)	13-5-21W		no report	none			Reagan	3,540	13
Ray West ('45)	26-5-21W	1,200	185,090	1,209,142	39		Arbuckle	3,544	
Spieess ('58)	35-5-25W	40	2,308	15,750	1		Arbuckle	3,650	9
West Union ('62)	21-5-21W	40	4,314	4,314	1		Lansing	3,645	3
Pools or fields abandoned							Reagan	3,678	3
Total Norton County		4,100	778,559	8,394,396	177				
OSBORNE COUNTY									
Ruggles ('52)	23-10-15W	640	56,693	803,835	13		Shawnee	2,986	30
							Lans.-K.C.	3,024	
Ruggles South ('57)	27-10-15W	40	1,660	17,580	1		Penn. congl.	3,394	16
Worley ('59)	33-10-15W		no report	1,643			Lans.-K.C.	3,038	4
Total Osborne County		680	58,353	823,058	14		Penn. congl.	3,408	5
PAWNEE COUNTY									
Ash Creek (revived) ('62)	31-20-15W	200	11,782	252,277	7	1	Arbuckle		
Ash Creek Southwest ('62)	11-21-16W		Included with Ash Creek	121,024			Arbuckle		7
Benson ('45)	30-23-15W	1,600	82,571	1,303,573	21		Lans.-K.C.	3,853	68
Bow ('58)	31-22-15W	40	6,511	52,657	1		Lansing	3,625	7
							Arbuckle	3,966	2
Browns Grove ('57)	17-20-20W		no runs	45,837			Mississippian	4,325	3
Carpenter ('55)	25-23-17W	40	1,872	35,472	1		Marmaton	4,123	
							Penn.-Miss.	4,158	10
							"Kinderhook"	4,270	6
Dunes ('53)	22-22-15W	540	25,859	572,542	8		Arbuckle	3,956	24
Dunes Southwest ('53)	33-22-15W		Abandoned during 1962				Lans.-K.C.	3,728	8
Dunes West ('58)	21-22-15W		no report	1,541			Arbuckle	3,974	6
Evers ('51)	1-22-16W	320	11,942	402,734	4		Lans.-K.C.	3,525	6
							Penn. congl.	3,814	4
							Simpson	3,861	
Garfield ('47)	17-23-17W	7,500	306,304	7,608,206	205	9	Arbuckle	3,908	11
							Penn.-Miss.	4,279	
Hearn ('53)	35-23-15W		Abandoned during 1962				"Kinderhook"	4,276	5
							Lans.-K.C.	3,833	
							Arbuckle	4,130	5

Jac ('58)	30-21-15W	40	no runs	339	1	Arbuckle	3,871
Jay ('54)	3-23-15W	360	18,342	330,806	9	Lans.-K.C.	3,668
					1	Simpson	4,025
Jay South ('56)	9-23-15W	40	4,541	43,696	1	Simpson	4,101
Jessie ('58)	36-21-15W	40	2,669	18,637	1	Lans.-K.C.	3,601
Larned ('49)	28-21-16W	1,800	324,907	4,789,378	46	Arbuckle	3,877
Lovett ('54)	35-22-15W	80	4,929	63,529	2	Lans.-K.C.	3,682
Merritt ('57)	35-21-20W	Abandoned during 1962				Cherokee	4,208
Newsom ('56)	25-20-20W	Abandoned during 1962				Mississippi	4,270
Orange ('58)	33-23-17W	Abandoned during 1962				Penn. congl.	4,204
Oro ('53)	9-20-19W	520	66,009	1,004,464	12	Penn. congl.	4,204
Oro Southeast ('61)	23-20-19W	280	97,105	122,739	8	Cherokee	4,179
Pawnee Rock* ('36)	13-20-16W	1,800	59,835	4,834,107	33	Arbuckle	3,832
Rice ('59)	12-23-15W	no report		7,807	4	Arbuckle	4,028
Rutherford ('46)	8-20-16W	300	8,756	376,429	4	Arbuckle	3,815
Ryan* ('45)	35-19-16W	80	9,575	587,875	2	Arbuckle	3,656
Ryan Southeast ('45)	12-20-16W	40	no runs	342,644	2	Arbuckle	3,688
Shady ('48)	35-22-16W	no report		6,038		Arbuckle	4,067
Shady Southwest ('53)	3-23-16W	no report		80,167		Lans.-K.C.	3,705
Shiley ('54)	14-20-20W	160	6,345	231,972	4	Arbuckle	4,094
Shiley East ('54)	18-20-19W	120	16,460	297,887	5	Penn. congl.	4,173
Sweeney ('53)	8-21-15W	80	1,760	65,567	2	Cherokee	4,232
Sweeney Southwest ('55)	25-21-16W	no report		6,833	1	Arbuckle	3,831
Sweeney West ('57)	14-21-16W	100	11,111	58,933	4	Arbuckle	3,901
Zook ('42)	16-23-16W	no report		7,016		Simpson	3,781
Pools or fields abandoned			no report	92,004	1	Arbuckle	3,833
Total Pawnee County		16,080	1,079,185	23,764,730	386	Arbuckle	4,066
					26		
PHILLIPS COUNTY							
Beckman ('51)	3-4-19W	80	5,694	25,574	2	Lans.-K.C.	3,201
Bow Creek ('39)	25-5-18W	no report		85,736		Lans.-K.C.	3,111
Dayton ('41)	36-2-19W	1,640	79,998	1,442,959	25	Lans.-K.C.	3,430
Fredericksburg ('52)	4-1-18W	400	35,806	107,159	12	Lans.-K.C.	3,457
Glenwood ('51)	21-1-17W	no report		31,705		Lans.-K.C.	3,597
Hansen ('43)	14-5-20W	1,300	152,851	3,779,748	38	Lans.-K.C.	3,363
						Arbuckle	3,530
Hansen West ('52)	15-5-20W	40	2,313	47,620	1	Arbuckle	3,543
Huffstutter ('49)	6-2-18W	6,400	484,404	5,723,407	163	Lans.-K.C.	3,444
Huffstutter Southwest ('51)	23-2-19W	200	15,824	230,280	5	Lans.-K.C.	3,458
Logan ('45)	3-5-20W	520	52,615	704,713	14	Lans.-K.C.	3,149
Mont-Sol ('54)	1-4-19W	200	15,582	183,998	6	Arbuckle	3,381
Mont-Sol South ('61)	18-4-18W	200	5,532	5,532	6	Lans.-K.C.	3,255
Ray* ('40)	32-5-20W	4,400	1,220,337	26,763,127	150	Lans.-K.C.	3,297
						Arbuckle	3,575
Slinker ('51)	25-4-20W	520	92,026	476,792	13	Reagan	3,540
Stony Point ('59)	18-5-20W	no runs		5,045		Lans.-K.C.	3,215
Stuttgart ('50)	14-3-19W	400	16,479	488,176	10	Lans.-K.C.	3,265
						Lans.-K.C.	3,146

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells shut, 1962	Producing zone			
			during 1962	to end, 1962			Name	Depth, ft.	Thickness, ft.	Average
Stuttgart South ('51)	23-3-19W	80	3,902	43,402	2		Lans.-K.C.	3,291	3	3
Van Dyke ('59)	1-2-19W	40	414	3,006	1		Lansing	3,428	3	36
Pools or fields abandoned				10,576						
Total Phillips County		16,420	2,183,277	40,158,555	448					
PRATT COUNTY										
Blowout ('52)	8-27-14W	40	1,243	20,500	1		Lans.-K.C.	3,929	7	34
Brachear ('62)	30-28-13W	40	7,210	7,210	1		Simpson	4,451	6	36
Brehm ('61)	23-28-13W	360	16,229	76,395	2		Simpson	4,390	8	
			58,067		7		Arbuckle	4,246	11	36
Cairo North ('54)	6-28-11W	40	2,462	69,040	1		Lans.-K.C.	3,848		
Carver-Robbins ('55)	21-27-15W	200	11,148	50,878	2		Viola	4,314	4	38
			9,643		2		Lans.-K.C.	3,980	4	34
					2		Penn. congl.	4,472	5	38
Carver-Robbins Northeast ('56)	10-27-15W		Combined with Carver-Robbins				Mississippian	4,509		
							Viola	4,534	4	
Chance ('46)	4-27-13W	1,200	66,324	3,941,945	54	5	Penn. congl.	4,400	9	
							Marmaton	4,137		34
							Mississippian	4,254		34
							Viola	4,250	10	
Chance Northwest ('54)	29-26-13W	80	2,051	91,094	2		Simpson	4,380		
Chitwood ('43)	23-28-12W	2,000	185,385	11,507,101	67		Arbuckle	4,432	25	35
							Simpson	4,422	8	40
							Lans.-K.C.			
							Viola			
							Simpson	4,396	14	
Clara* ('48)	36-29-14W	140	2,443	219,225	4		Arbuckle	4,472	4	40
Coats ('44)	24-29-14W	120	1,256	459,604	3		Simpson	4,402	12	
Coats North ('54)	12-29-14W		no report	108,314			Arbuckle	4,342	10	28
Coats West (revived) ('62)	23-29-14W	120	16,693	16,693	3		Marmaton	4,584	16	
Cullison ('56)	25-28-15W	80	1,909	11,277	2		Simpson	4,521	13	43
Cunningham* ('31)	7-28-11W	3,400	81,316	5,384,898	70		Cherokee	4,543	13	39
							Mississippian	3,390	7	41
Eads* ('59)	33-29-14W	120	9,563	71,778	3		Lans.-K.C.	4,330		
Earl ('54)	36-28-14W		no report	111,859			Viola	4,501	10	35
							Lans.-K.C.	4,223		
Earl North ('55)	36-28-14W	40	9,810	68,238	1		Simpson	4,520	14	38
Fitzsimmons ('53)	30-27-13W	120	6,662	160,979	3		Simpson	4,493	17	38
							Lans.-K.C.	4,056	3	36

Fitzsimmons South ('54)	31-27-13W	320	11,819	263,656	8	Lans.-K.C.	4,124	38
Frisbie ('43)	5-26-13W	400	23,664	615,189	8	Simpson	4,435	10 38
Frisbie Northeast ('48)	4-26-13W	400	12,885	445,990	10	Lans.-K.C.	3,947	8 33
						Lans.-K.C.	3,788	19 27
						Viola	4,170	17
						Simpson	4,274	
Gereke North ('61)	1-26-15W	40	11,353	11,353	1	Simpson	4,390	11 38
						Simpson	3,798	
Gereke Northwest ('62)	1-26-15W	80	13,801	13,801	2	Lans.-K.C.	4,350	14 28
Haskins ('56)	5-27-14W	40	3,357	44,101	1	Viola	4,118	8 31
						Lans.-K.C.	4,418	
Hopewell ('58)	17-26-15W	40	1,065	2,805	1	Viola	3,887	8
Iuka-Carmi ('37)	11-27-13W	8,000	592,234	23,374,901	241	Lans.-K.C.	3,807	31 37
						Marmaton	4,104	7
						Mississippian	4,012	24
						Viola	4,112	
						Simpson	4,195	
						Arbuckle	4,292	
Iuka-Carmi Northwest ('53)	26-26-13W	160	9,174	197,374	5	Arbuckle	4,354	16 37
						Viola	4,217	
Jem ('61)	28-29-13W	160	21,971	40,283	3	Simpson	4,276	18 37
			4,744		1	Arbuckle	4,466	14 35
Lion Northeast ('54)	21-27-11W	80	3,625	69,526	2	Viola	3,796	3 38
Ludwick ('44)	4-29-13W	40	no report	39,310	2	Lans.-K.C.	4,490	27 39
Ludwick Northeast ('60)	28-28-13W	40	2,877	11,913	1	Simpson	4,418	5 36
Moore ('49)	1-26-14W	200	11,454	395,094	6	Lans.-K.C.	3,906	37
						Viola	4,234	
Moore Southwest ('53)	11-26-14W	540	29,098	281,362	7	Simpson	4,348	38
						Lans.-K.C.	3,846	
						"Kinderhook"	4,246	
Moore West ('59)	4-26-14W	80	18,317	51,860	2	Simpson	4,364	2 32
Park ('59)	14-27-11W	120	18,164	46,286	3	Lansing	3,810	2 32
Randle ('55)	5-26-14W	80	10,694	92,089	2	Lansing	3,620	4 34
Rell ('57)	10-29-14W	40	1,153	9,972	1	Lans.-K.C.	3,946	8 35
Rollingson ('58)	30-27-12W	240	101,867	398,060	11	Marmaton	4,439	5
Sawyer ('57)	26-29-13W	540	87,387	313,856	13	Simpson	4,306	6 38
						Lans.-K.C.	4,096	4
						Simpson	4,607	4
						Arbuckle	4,678	5
Sawyer North ('60)	24-29-13W	40	no report	7,392	1	Lans.-K.C.	3,926	13
School Teacher ('57)	27-28-11W	360	884	7,092	1	Viola	4,331	16 40
Shriver ('44)	33-29-14W	80	81,080	929,814	9	Simpson	4,557	7 39
Slade South* ('62)	35-25-12W	80	335	335	3	Lans.-K.C.	3,925	4 39
Tatlock ('54)	28-26-15W	40	2,751	85,894	2	Lans.-K.C.	3,925	4 39
Tatlock Southwest ('58)	30-26-15W	80	124	1,780	3	Congl. sand	4,376	
						"Kinderhook"		
Pools or fields abandoned				1,014,672				
Total Pratt County		20,300	1,565,291	51,142,788	577			12

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd. 1962	Name	Depth ft.	Thick- ness, ft.	Aver. grav.
			during 1962	to end, 1962						
RAWLINS COUNTY										
Arbor ('59)	17-4-33W	40	5,926	19,441	1		Lansing	4,023	21	31
Beeson ('62)	18-3-35W	40	2,020	2,020	1		Kansas City	4,209	6	35
Brumm ('56)	7-2-36W		no report	23,143	2		Lans.-K.C.	4,406		
							Topeka	4,168	31	
							Lans.-K.C.	4,312	17	
Cahoj ('59)	17-1-34W	1,360	595,299	1,726,096	47		Lansing	4,030	9	32
Cahoj West ('62)	14-1-35W	120	19,532	19,532	3		Lansing	4,071	6	30
Kompus ('59)	33-1-32W	40	no runs	493	1		Lansing	3,890	3	30
Sappa Creek ('58)	24-4-34W	80	18,223	59,603	2		Lans.-K.C.	4,030	8	33
Schmahl ('61)	9-5-31W	20	4,264	12,032	1		Marmaton	4,430	6	36
Waterman ('58)	15-4-33W	80	3,007	18,526	2		Lans.-K.C.	3,966	6	36
Wilhelm ('59)	20-1-32W	500	102,135	264,288	12		Lansing	3,913	14	
Wilhelm East ('60)	15-1-32W	40	6,463	14,714	1		Marmaton	4,280	8	
Total Rawlins County		2,320	756,869	2,159,888	73		Lansing	3,880	9	33
							Lansing	3,896	3	34
RENO COUNTY										
Abbyville ('27)	24-24-8W	440	22,462	1,132,644	9	3	Lans.-K.C.	3,540	9	38
Abbyville East ('61)	21-24-7W		no runs	687		2	Lansing	3,125	4	38
Abbyville Southwest ('60)	26-24-8W		no report	2,196	1		Mississippian	3,758	4	36
Albion ('48)	14-26-6W	140	3,109	74,233	4		Lans.-K.C.	3,342	31	
							"Chat"	3,654		
Albion North ('61)	12-26-6W		no report	none			Mississippian	3,598	7	39
Bacon ('53)	36-23-5W	40	10,884	77,931	1		Mississippian	3,382	28	38
Beck ('55)	24-23-9W	120	4,239	101,960	3	1	Penn. congl.	3,711	4	34
Buhler ('38)	25-22-5W	580	25,093	1,530,887	13	2	Viola	3,890	5	
Burrton* ('31)	1-23-4W	11,200	561,157	53,966,170	326		Simpson	3,897	42	33
			Includes Harvey County Production				Mississippian	3,266		
Castleton ('55)	29-25-6W	80	3,477	39,343	2	1	"Hunton"	3,583	42	
Castleton South ('62)	32-25-6W	40	507	507	1		"Misener"	3,992	6	36
Friendship (revived) ('62)	19-25-4W	140	6,325	10,368	1		Kansas City	2,970	4	37
			799		1		Lans.-K.C.		3	
			2,004		2		"Hunton"			
Hilger ('34)	16-26-4W	80	13,797	4,913,350	2		Viola	4,062	5	38
Hilger Southwest ('55)	29-26-4W	240	27,747	354,655	2	1	Viola	3,955		
					8		"Misener"	4,012	4	40
Huntsville Townsite ('62)	8-23-9W		no report	none			Viola	3,573	18	

Lorado ('37)	10-26-9W	880	4,755	197,333	30	Mississippi	3,857
Morton ('42)	17-24-8W	40	1,562	59,444	1	Lans.-K.C.	3,180
Morton Southeast ('51)	16-24-8W	40	1,413	22,226	1	Lans.-K.C.	3,423
Nicklaus ('52)	3-26-4W	120	16,778	235,522	3	Lans.-K.C.	3,249
Pettyman ('57)	11-23-9W	40	no runs	7,987	1	Lansing	3,244
Rino* ('60)	33-21-9W	80	25,809	43,926	2	Simpson	3,517
Sterling* ('51)	4-22-8W	280	13,145	259,409	7	Arbuckle	3,524
Sterling Southwest ('61)	17-22-8W	600	148,702	157,213	15	Mississippi	3,385
Stroud ('58)	34-23-5W	40	2,179	21,814	1	Penn. congl.	3,535
Stroud South ('59)	33-23-5W	40	no report	6,583	1	Mississippi	3,525
Wisby ('57)	18-22-9W	620	30,870	344,456	21	Simpson	3,850
Wisby North ('57)	6-22-9W	180	7,700	51,396	5	"Hunton"	3,724
Wisby South ('59)	19-22-9W	140	37,839	148,385	4	Simpson	3,614
Yoder ('35)	34-24-5W	380	no report	93,285	2	Simpson	3,610
Zenith-Peace Creek* ('41)	21-23-10W	16,160	Included with Stafford County	2,664,842	465	Simpson	3,630
Pools or fields abandoned						"Chat"	3,450
Total Reno County						Viola	3,773

RICE COUNTY

Alden Northwest ('62)	5-21-9W	40	922	922	1	Kansas City	2,955
Bell ('53)	9-21-10W	120	9,577	205,698	3	Arbuckle	3,391
Bloomer* ('36)	36-17-11W	1,300	250,605	17,253,757	67	Lans.-K.C.	3,044
Bredfeldt ('48)	7-18-9W	120	3,922	136,985	3	Arbuckle	3,257
Bredfeldt Northwest ('56)	12-18-10W	980	no report	11,107	27	Arbuckle	3,226
Bull Creek ('60)	26-21-8W	380	185,293	276,990	13	Arbuckle	3,250
Calf Creek ('50)	28-18-10W	80	20,392	369,973	2	Mississippi	3,354
Calf Creek North ('52)	28-18-10W	31,000	3,066	23,353	1	Lans.-K.C.	3,006
Chase-Silica* ('31)	32-19-9W	80	1,246,385	126,029,905	705	Penn. congl.	3,270
Click Southeast ('47)	11-18-7W	120	5,147	106,558	3	Precambrian	3,143
Cow Creek ('46)	28-18-9W	240	Abandoned during 1962		2	Arbuckle	3,143
Crawford ('53)	12-18-7W	40	12,990	310,140	6	Wabaunsee	2,855
Crawford Southeast ('54)	20-18-6W	40	62	26,579	4	Lans.-K.C.	2,942
Dymond (revived) ('62)	18-21-7W	240	25,877	28,100	1	Lans.-K.C.	3,355
Faler ('61)	2-21-9W	400	2,084	70,900	1	"Penn. sand"	3,242
Faler West ('62)	3-21-9W	500	65,136	none	9	Simpson	3,252
Farmer ('52)	24-18-10W	80	no report	508,918	1	Arbuckle	3,065
Farmer North ('57)	18-18-9W	700	15,510	28,857	14	Lans.-K.C.	3,154
Frederick ('51)	10-18-9W	80	2,132	1,149,114	2	Penn. congl.	2,950
Frederick East ('61)	12-18-9W	80	28,155	113,386	3	Lans.-K.C.	3,194
			113,386	6,234	17	Penn. congl.	3,276
			2,333		2	Mississippi	2,945
					9	Lansing	3,327
					1	Simpson	3,327
					14	Lansing	2,928
					2	Arbuckle	3,222
					3	Arbuckle	3,326
					17	Penn. congl.	3,213
					2	Simpson	3,280
					7	Simpson	3,286

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd., 1962	Producing zone			Thick- ness, ft.	Aver- age
			during 1962	to end, 1962			Name	5d Q ₁	5d Q ₂		
Galt ('52)	8-18-7W		no report	92,814			Arbuckle	3,193		4	
Geneseo-Edwards* ('34)	25-18-8W	5,600	951,217	47,021,726	235	8	Lans.-K.C. Penn. congl.	2,787		39	
							Simpson	3,222		39	
Heinz ('38)	8-18-10W	200	3,091	373,901	5	2	Arbuckle	3,180		41	
							Lans.-K.C.	3,000		41	
Ix1 ('50)	4-19-10W	900	73,598	647,325	22	1	Arbuckle	3,254		14	
							Lans.-K.C.	3,068		44	
Mary Ida* ('50)	31-18-10W	640	42,338	903,374	15		Arbuckle	3,308		22	
							Lans.-K.C.	3,033		36	
Mary Ida South ('57)	6-19-10W	420	143,377	500,297	20		Arbuckle	3,272		5	
							Lansing	3,038		4	
Munyon ('50)	34-18-10W	80	4,359	128,054	2		Arbuckle	3,342		5	
							"Sooy"	3,270		43	
Munyon South ('51)	3-19-10W	80	no runs	154,247	2		Arbuckle	3,275		13	
Odessa ('49)	32-18-6W	640	134,537	858,972	18	2	Arbuckle	3,300		43	
Odessa South ('49)	9-19-6W		Included with Odessa	72,836**			Lans.-K.C.	3,092		6	
							Lans.-K.C.	3,069		6	
Orth ('32)	27-18-10W	1,180	57,573	3,619,725	28		Shawnee	2,915		40	
							Lans.-K.C.	3,187		10	
							"Sooy"	3,240		21	
Orth West ('44)	21-18-10W	500	23,560	836,729	15		Precambrian	2,688		37	
							Shawnee	3,235		41	
Ponce ('36)	28-21-7W	160	8,413	153,527	4		Arbuckle	3,388		34	
Ponce Southeast ('59)	27-21-7W		no report	1,365			"Sooy"	3,414		18	
Prosper East ('50)	5-18-9W	160	4,209	232,499	4		Mississippian	3,222		16	
Rellim ('57)	3-19-6W	600	34,697	376,492	18		Arbuckle	3,295		46	
Rick* ('36)	1-19-11W	80	2,150	74,774	2	1	Penn.-Miss.	3,225		35	
							Lans.-K.C.	3,106		41	
Rickard ('35)	22-18-9W	40	2,063	214,615	1		Arbuckle	3,355			
Rick Southeast ('47)	18-19-10W		Combined with Chase-Silica				Arbuckle	3,324		7	
							Lans.-K.C.	3,026		36	
Ringwald ('49)	32-18-10W	560	61,931	1,025,442	12		Arbuckle	3,334		5	
							Lans.-K.C.	2,947		5	
Rino* ('60)	33-21-9W	200	55,181	95,436	5		Precambrian	3,072		12	
							Simpson	3,517		41	
Roesler* ('43)	14-18-11W	200	12,527	344,544	5		Arbuckle	3,524		7	
Schoepflin ('62)	17-21-9W	40	5,565	5,565	1		Arbuckle	3,291		7	
Sayres North ('57)	23-19-6W	40	no runs	1,219	1		Simpson	3,383		10	
Sterling* ('51)	4-22-8W	120	3,044	58,751	3		Mississippian	3,360		8	
Tobias ('61)	25-20-9W	800	1,847	100,272	1		Mississippian	3,385		12	
			1,847				Penn. congl.	3,284			
			4,614		2		Simpson				
			91,044		21		Arbuckle	3,218		10	
										43	

	23-20-9W	1,200	4,419 103,524	107,943	5 32	3,310	36	44
Tobias Northwest ('62)								
Tobias South ('62)	35-20-9W		Combined with Tobias					
Union East ('50)	27-20-8W	80	1,485	81,386	2			
Volkland ('43)	27-18-9W	160	9,780	816,915	4			
Welch-Bornholdt* ('24)	35-20-6W	9,000	509,607	19,231,253	311			
Wherry ('33)	11-21-7W	7,000	128,558	13,989,946	97			
Wisby Northeast ('58)	32-21-9W	140	14,963	66,532	5			
Pools or fields abandoned								
Total Rice County		67,240	4,486,245	239,181,663**	1,781			87
RILEY COUNTY								
Ge-See* ('59)	27-11-8E	20	884	4,230	1			
Yaeger ('59)	25-11-8E	600	11,720	731,511	2			
Total Riley County		620	221,177	735,741	30			
ROOKS COUNTY								
Andreson ('62)	31-10-18W	80	7,370	7,370	2			
Arpin ('57)	5-9-20W	40	1,498	14,658	1			
Arpin East ('58)	4-9-20W	40	3,130	13,511	1			
Arpin South ('57)	8-9-20W	60	5,840	42,750	2			
Barry ('42)	11-9-19W	2,500	2,951	11,252,413	3			
			115,043		25			
			345,051		51			
Barry East ('47)	6-9-18W	540	20,351	897,280	9			
Barry Southeast ('46)	13-9-19W	640	66,157	2,392,311	22			
Baum ('42)	10-10-16W	40	1,437	34,527	1			
Baumgarten ('50)	25-9-19W	1,000	103,066	1,298,110	25			
Bemis-Shutts* ('35)	16-11-17W	700	73,593	2,689,003	29			
Berland Southeast ('53)	29-10-19W		no report	87,367				
Bray ('60)	20-8-19W	40	3,675	10,359	1			
Brungardt* ('52)	35-10-17W	480	22,929	520,693	13			
Brungardt Northwest ('53)	34-10-17W		no report	15,693				
Carmichael ('55)	33-8-18W	120	6,604	128,822	4			
Chesney ('59)	12-8-17W	160	15,121	107,641	6			
Colby ('53)	27-10-17W		no report	1,462				
Collins ('60)	34-9-18W	40	2,684	7,777	1			
Cooper* ('43)	5-10-20W	1,400	135,649	2,518,238	37			
Cresson ('56)	11-9-20W	80	2,835	42,930	2			

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abandoned 1962	Producing zone			
			during 1962	to end, 1962			Name	Depth, ft.	Thickness, ft.	Average thickness, ft.
Dancer ('52)	4-8-17W	4,000	no report	9,671	87	1	Lans.-K.C.	3,140	12	26
Dopita ('34)	31-8-17W		314,324	4,138,805			Lans.-K.C.	3,212	5	33
Dopita East ('52)	29-8-17W	340	33,409	436,359	8		Arbuckle	3,409	10	25
Dorr ('42)	20-9-16W	1,000	84,816	1,953,283	50		Lans.-K.C.	3,304	6	
Eilers ('59)	22-10-18W	320	88,896	294,273	12		Arbuckle	3,421		
							Toronto	3,178	10	35
							Lans.-K.C.	3,230	21	36
							Lansing	3,322	56	30
							Simpson	3,647		
Faubion ('36)	12-6-18W	40	1,857	73,654	1		Arbuckle	3,667		
Fehnel ('52)	16-10-19W	80	5,049	87,996	2		Lans.-K.C.	3,162	3	35
Finney ('47)	14-10-18W	80	5,550	71,133	3		Lans.-K.C.	3,480	14	36
Finney South ('58)	24-10-18W	440	47,819	142,260	11		Lans.-K.C.	3,419	35	
Flagler ('55)	15-10-18W	40	4,171	43,680	1		Lansing	3,447	48	33
Ganong ('53)	31-9-17W	40	1,219	44,562	1		Lans.-K.C.	3,445	6	
Gick ('47)	30-9-19W	260	17,361	418,854	7		Lans.-K.C.	3,281		
Gra-Rook ('48)	30-9-20W	760	137,278	2,267,067	18		Penn. congl.	3,524	7	34
							Arbuckle	3,578	12	
Gra-Rook North ('56)	18-9-20W	160	7,666	84,511	4		Penn. congl.	3,810		
Gra-Rook Northeast ('59)	17-9-20W	40	3,013	16,835	1		Arbuckle	3,869	4	32
Grover ('50)	22-7-19W	440	23,032	264,097	11		Arbuckle	3,746	14	32
							Arbuckle	3,767	5	30
							Lans.-K.C.	3,272	40	32
Hance ('62)	14-8-19W	40	822	822	1		Arbuckle	3,408	13	
Hayden ('49)	31-8-19W	480	25,028	807,123	14	1	Arbuckle	3,441	4	28
							Lans.-K.C.	3,289	32	
Hrabe ('61)	36-8-17W	220	18,386	23,440	6		Arbuckle	3,513	4	35
Hrabe West ('61)	35-8-17W	480	51,416	51,832	12		Lans.-K.C.	3,089	239	35
Jelinek ('47)	23-9-19W	2,200	305,755	6,955,904	76	2	Lans.-K.C.	3,105	7	34
							Lans.-K.C.	3,220	23	
Kern ('50)	28-9-20W	200	15,121	517,565	6		Arbuckle	3,537	15	
Kern West ('58)	29-9-20W	40	2,815	15,677	1		Arbuckle	3,855	5	28
Krueger* ('48)	35-10-16W	Included with Ellis County		624,975			Arbuckle	3,859	7	36
							Lans.-K.C.	3,552	59	
Kruse ('51)	3-10-16W	440	16,905	397,419	11		Arbuckle	3,094	26	38
Kruse Northwest ('53)	34-9-16W	120	4,000	64,348	3		Lans.-K.C.	3,200	6	
Laton ('27)	11-9-16W	4,200	299,155	6,341,144	107		Lans.-K.C.	3,228	33	30
LeSage ('60)	18-7-20W	120	25,756	62,981	4	1	Lans.-K.C.	3,308	44	37
Locust Grove ('49)	8-7-19W	440	83,216	436,425	14	1	Shawnee	3,130	4	
							Lans.-K.C.	3,188	25	36
							Arbuckle	3,450	14	25
Lone Star ('48)	4-8-17W	800	39,896	751,207	20		Lans.-K.C.	3,259	17	25
Lynd ('51)	32-9-19W	880	31,638	614,546	16	1	Arbuckle	3,382	7	25
	5-10-19W	40	1,276	90,958	1		Arbuckle	3,750	7	27
							Arbuckle	3,759	4	29

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Producing wells	Wells abd. 1962	Name	Oil prod. 1962	Thick. in. 1962	Aver. graininess
			during 1962	to end, 1962						
Webster ('46)	27-8-19W	1,800	64,799	3,299,096	35	7	Shawnee Arbuckle	3,180	12	
Westhusin ('36)	11-9-17W	1,380	73,767	2,879,850	36		Lans.-K.C. Arbuckle	3,403	5	23
Whisman ('50)	9-9-20W	40	2,004	25,507	1		Lans.-K.C. Arbuckle	3,231	11	37
Williams ('53)	9-10-18W	320	27,453	525,797	8		Toronto Arbuckle	3,408	29	
							Lans.-K.C. Simpson	3,427	21	
							Lans.-K.C. Simpson	3,650		19
							Arbuckle	3,386		
							Penn. congl.	3,459		
Williams North ('56)	32-9-18W	200	12,674	135,092	7		Arbuckle	3,717	6	19
							Simpson	3,733	3	
Williams Northwest ('53)	6-10-18W	40	10,859	74,723	2		Arbuckle	3,714	3	29
Williams Southeast ('53)	16-10-18W	560	42,944	465,209	14		Lans.-K.C. Simpson	3,725	3	
							Lans.-K.C. Simpson	3,409	46	26
							Lans.-K.C. Simpson	3,725	5	
							Lans.-K.C. Simpson	3,444	3	36
							Arbuckle	3,660		
Windy Ridge ('58)	25-10-18W	40	7,987	9,729	1		Lans.-K.C.	3,426	19	
Yohe ('49)	4-9-18W	40	2,713	65,487	1		Lans.-K.C.	3,266	24	37
			Abandoned during 1962							
Zurich ('35)	26-10-19W	420	13,120	548,529	9		Shawnee	3,087	9	37
							Lans.-K.C.	3,340		
Zurich Southwest ('52)	34-10-19W	40	1,321	33,781	1		Lans.-K.C.	3,385	9	28
Zurich Townsite ('44)	27-9-19W	360	27,714	746,477	9		Lans.-K.C.	3,462		
							Arbuckle	3,647	6	28
Pools or fields abandoned				154,121						
Total Rooks County		61,640	5,191,270	102,702,787**	1,508	24				
RUSH COUNTY										
Basgall ('60)	5-16-17W		no report	887		1	Arbuckle	3,520	10	29
Big Timber ('61)	5-16-18W	40	4,270	12,762	1		Lans.-K.C. Marmaton	3,326	6	
			1,766		1		Cherokee	3,606		
Elmore* ('58)	12-18-21W	80	9,893	41,582	2		Lans.-K.C. Arbuckle	4,116	12	36
Herr North ('58)	12-16-18W	80	8,433	25,364	2		Arbuckle	3,267	2	
							Cherokee	3,527	2	
Kober ('59)	18-19-20W	80	22,381	48,216	2		Lans.-K.C.	4,323	14	37
Loretto Northeast ('57)	14-16-17W	80	2,116	26,022	2		Lans.-K.C.	3,452	7	
McCracken ('57)	19-17-20W	40	7,461	28,442	1		Cherokee	4,090	3	
McCracken North ('62)	18-17-20W	40	6,084	6,084	1		Cherokee	4,056	8	41
Old Maids Fork ('60)	20-19-20W	80	11,153	30,819	2		Cherokee	4,300	4	41
Otis-Albert* ('34)	10-18-16W	2,800	91,934	6,574,767	57	2	Lans.-K.C. Reagan	3,236	4	34
							Arbuckle	3,527	9	34
Pechanec ('56)	2-19-17W	40	no runs	6,495	1		Arbuckle	3,842	11	44

Reichel Gas Area ('53)	23-17-17W	40	2,179	8,595	1	Lans.-K.C. Penn. congl. Granite Wash Arbuckle Arbuckle Arbuckle Arbuckle Arbuckle Reagan Marmaton Cherokee Penn. congl. Penn. congl. Penn. congl. Cherokee "Penn. sand" Mississippian "Gorham"	3,330 3,563 3,578 3,836 3,783 3,734 3,656 3,846 4,176 4,200 4,190 4,202 4,240 4,302 4,400 3,674
Rush Center ('47)	16-18-18W	580	41,492	661,180	10		
Rush Center Northeast ('54)	10-18-18W	40	no runs	59,057	1		
Rush Center Southeast ('62)	25-18-18W	40	1,638	1,638	1		
Ryan* ('45)	35-19-16W	40	1,313	2,132,046	1		
Schwindt ('61)	11-17-19W	120	27,927	33,824	3	1	
Shiley North ('61)	31-19-19W	200	58,523	60,429	5		
Webs ('54)	16-19-20W	200	63,879	555,943	8		
Webs Northwest ('55)	8-19-20W	40	2,470	45,445	1		
Webs Southwest ('56)	16-19-20W	120	12,143	183,733	3		
Weitzel ('47)	1-16-20W						
Pools or fields abandoned							
Total Rush County		4,780	377,055	10,654,419	106	4	
Abandoned during 1962							
111,089							
RUSSELL COUNTY							
Beaver North* ('37)	4-16-12W	40	2,039	90,463	1		Arbuckle
Beisel ('44)	15-14-12W	40	11,033	60,792	1		Penn. congl. Arbuckle
Boxberger ('35)	36-15-15W	40	1,518	253,623	1		Lans.-K.C.
Boxberger West ('57)	34-15-15W	240	56,576	123,866	6		Lans.-K.C.
Brundage ('57)	9-12-15W	920	46,926	577,250	12		Lans.-K.C.
			62,762		11		Arbuckle
Brundage South ('58)	16-12-15W	120	7,587	93,656	3		Lansing
			7,659		2		Arbuckle
Claussen ('44)	27-12-14W	200	3,739	134,232	5		Lans.-K.C.
Coal Creek ('51)	22-15-11W	80	3,190	25,956	2		Penn. congl.
Abandoned during 1962							
Davidson* ('30)	4-16-11W	160	23,274	324,642	5		Lans.-K.C. "Sooy"
							Arbuckle
Donovan ('35)	10-15-15W	120	2,692	282,677	3		Lans.-K.C.
Dreher ('59)	23-11-15W	80	6,042	16,988	2	1	Arbuckle
Driscoll ('56)	30-15-11W	600	55,466	520,556	18		Lans.-K.C. Penn. congl.
Driscoll West ('60)	25-15-12W		no report	7,176			Arbuckle
Dubuque ('35)	34-15-12W	720	65,919	1,442,189	16	2	Lans.-K.C. Arbuckle
Elsasser ('61)	23-12-15W	80	6,384	13,056	2		Lans.-K.C.
Elsasser Southwest ('61)	22-12-15W	60	7,936	7,936	2		Arbuckle
Eulert ('49)	35-11-15W	540	86,031	1,448,273	18		Topeka Lans.-K.C.
							Arbuckle
Eulert West ('54)	34-11-15W	40	5,055	47,718	1		Lans.-K.C.

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abdl. 1962	Producing zone		
			during 1962	to end, 1962			Name	Depth, ft.	Thickness, ft.
Fairport* ('23)	8-12-15W	6,280	780,437	29,235,751	216	1	Lans.-K.C. "Sooy"	2,950	12
							"Gorham"	3,137	5
							Simpson	3,211	
							Arbuckle	3,316	
							Reagan	3,312	
							Lans.-K.C.	3,350	
Fav ('52)	2-12-15W	40	5,767	23,587**	1		Shawnee	2,953	180
Gorham ('26)	32-13-15W	17,000	1,195,630	71,801,601	491	11	Lans.-K.C. "Gorham"	2,765	48
							Arbuckle	3,152	5
							Reagan	3,289	32
							Arbuckle	3,299	5
Hagerman ('59)	28-11-15W	40	10,054	33,483	1		Arbuckle	3,273	6
Hall-Gurney* ('31)	30-14-13W	29,000	3,104,996	89,854,672	1,230	8	Tarkio	1,985	28
							Wabaunsee	2,400	39
							Topeka	2,675	
							Oread	2,813	
							Lans.-K.C.	2,985	
							"Gorham"	3,165	
							Arbuckle	3,192	
							Precambrian	3,156	
Heim ('53)	21-14-12W	400	43,496	359,425	10		Lans.-K.C.	2,897	37
							penn. congl.	3,189	37
							Arbuckle	3,238	
Janne ('43)	24-15-12W	Combined with Driscoll					Lans.-K.C.	3,319	5
Jerry ('42)	4-15-14W	40	2,584	82,537	1		Arbuckle	3,319	22
							Wabaunsee	2,985	38
							Lans.-K.C.		
							Arbuckle		
Kune ('56)	17-13-15W	160	16,429	108,652	6		Lans.-K.C.	3,004	15
Lang ('57)	30-15-12W	140	47,168	214,839	4		Arbuckle	3,334	28
Machin ('58)	4-13-14W	40	1,981	17,197	1		Lansing	2,994	16
Meckel ('62)	27-12-15W	no report	none				Arbuckle	3,240	5
		Abandoned during 1962							4
Meier ('48)	30-15-12W	80	5,231	253,147	2		Arbuckle	3,325	6
Ney ('48)	31-15-12W	160	29,639	486,933	4		Lans.-K.C.	3,240	37
							Arbuckle	3,350	6
Nuss* ('55)	5-16-14W	240	33,147	210,439	6		Lans.-K.C.	3,183	
Parker ('48)	18-15-12W	360	30,014	495,876	9	2	Shawnee	2,957	7
							Lans.-K.C.	3,086	16
Reich ('58)	28-12-15W	340	88,501	374,161	19		Arbuckle	3,259	36
							Toronto	2,939	4
							Lans.-K.C.	3,018	3
							Arbuckle		
Reich South ('59)	32-12-15W	40	847	8,597	1		Lansing	3,031	6
									42

Russell ('34)		22-13-14W	4,200	232,009	13,094,193	109	7	Lans.-K.C.	3,195	9	33
Russell East ('49)		25-13-14W	120	13,648	71,245	3		Arbuckle	3,280	6	
Russell North (revived) ('62)		15-13-14W	40	2,918	24,021	1		Arbuckle	3,273	11	33
S & S ('57)		36-12-15W	320	48,269	426,273	15		Lans.-K.C.		6	
Salt Creek ('61)		6-13-14W	80	11,042	19,043	2		Arbuckle	3,139	9	32
Strecker ('43)		21-15-14W	40	330	65,315	2		Lans.-K.C.	2,954	185	38
Trapp* ('36)		23-15-14W	20,000	1,853,592	115,909,329	736	15	Arbuckle	3,342	3	48
								Tarkio	2,359	39	
								Shawnee	2,889	32	
								"Dodge"	2,966		
								Lans.-K.C.	3,062	40	
								Arbuckle	3,252	3	39
Pools or fields abandoned											
Total Russell County			83,240	8,019,627	330,920,048	6,044	49				
SALINE COUNTY											
Ash Grove West ('59)		12-15-1W		no report	none			"Burgess"	2,618	8	
Bachofer ('51)		15-15-2W	200	13,174	130,405	5		Mississippi	2,799	6	
Bachofer Southeast ('62)		14-15-2W	40	765	765	1		Mississippi	2,760	5	33
Gillberg ('59)		28-14-2W	200	10,321	53,412	7		Maquoketa	3,223	8	33
Gypsum Creek* ('44)		4-17-1W	680	58,763	947,728	20	3	Lans.-K.C.	2,072	8	
Hunter ('43)		20-16-1W	940	39,199	1,494,296	24		Mississippi	2,619	14	36
Hunter North ('48)		8-16-1W	320	17,062	380,362	8	1	Douglas	1,841	2	
Jackman ('60)		10-15-1W		no report	2,370			"Chat"	2,681	2	
Lindsborg* ('38)		8-17-3W	2,500	137,576	1,793,433	76	1	Mississippi	2,674	21	36
Mentor ('44)		13-15-3W		Combined with Salina				Mississippi	2,547	4	
Mentor South ('61)		25-15-3W		Combined with Mentor				Viola	3,381	54	35
Mortimer ('58)		5-16-1W	40	5,126	14,706	2		Viola	3,258	15	35
Olsson ('29)		10-16-3W	940	92,187	1,033,134	41	1	Maquoketa	3,290	6	37
Salina ('43)		30-14-2W	2,600	309,860	2,125,314	65	3	Mississippi	2,639	14	
Salina South ('46)		32-14-2W		Combined with Salina				Viola	3,303	12	35
Shultz ('62)		16-15-3W		no report	none			Viola	3,223	18	34
Smolan ('50)		19-15-3W	3,000	109,325	4,656,910	97	11	Maquoketa	3,218	6	35
Swenson ('50)		34-15-3W	160	4,658	73,445	6	2	Viola	3,246	8	34
Pools or fields abandoned								Viola	3,348	15	
Total Saline County			11,620	798,016	12,717,565	353	23	Viola	3,386	6	27
SCOTT COUNTY											
Durrant ('61)		30-17-31W		Abandoned during 1962				Mississippi	4,647	5	31
Griegston ('54)		10-19-31W		Abandoned during 1962				Mississippi	4,577		
Keystone ('50)		25-18-32W	120	17,136	310,992	3		Arbuckle	5,050	4	
Newby ('60)		23-18-32W	80	10,748	43,519	1		Lans.-K.C.	4,001	6	25
				10,426		1		Lans.-K.C.	3,923	2	23
								Marmaton	4,335	2	
								Mississippi	4,576	6	31

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd., 1962	Producing zone			
			during 1962	to end, 1962			Name	Depth, ft.	Thickness, ft.	Average per acre
Rothfelder ('57)	7-20-33W	80	7,601	48,128	2		Morrowan	4,672	23	
Shallow Water ('35)	15-20-33W	680	14,840	1,986,688	6		Marmaton	4,286		25
							Mississippian	4,660		
							Ste. Gen.	4,670	16	
Shallow Water Northeast ('59)	12-20-33W	40	2,938	13,988	1		Cherokee	4,432	5	
Pools or fields abandoned				33,234						
Total Scott County		1,000	63,725	2,436,549	14					
SEDGWICK COUNTY										
Bartholomew* ('48)	30-27-4W	1,800	77,782	3,060,745	30		Kansas City	3,270	10	
							Mississippian	3,732	25	
Bentley ('29)	24-25-2W		no report	22,250			Kansas City	2,866	24	
Brumley ('55)	19-29-1E	160	9,156	110,153	3	1	Lans.-K.C.	2,863	2	
							Mississippian	3,352	8	
							Simpson	3,754	1	
Butwick* ('49)	7-26-3E		no report	955			Mississippian			
							"Hunton"	3,192	2	
Buzzi ('58)	32-25-1E	320	69,626	165,940	8		"Hunton"	3,436	1	
Chambers ('48)	10-29-2W	80	5,040	128,107	2		Kansas City	2,916	5	
							Mississippian	3,540	4	44
Chambers Northeast ('56)	2-29-2W	200	12,133	148,922	5		Mississippian	3,570	5	
Clearwater ('44)	22-29-2W	200	9,656	222,111	5		Lans.-K.C.	2,913	11	
Cross ('29)	27-25-1W	40	6,869	129,206	1		Lans.-K.C.	2,690	40	36
							"Hunton"	3,574	5	
Curry ('47)	11-27-1W	460	44,855	827,613	17		Lans.-K.C.	2,715		
							Viola	3,400		
DuBois* ('57)	3-25-2E	1,420	270,503	1,202,277	57	1	"Burgess"	3,830	8	
Eastborough ('29)	19-27-2E	900	29,754	9,281,693	14	1	"Chat"	2,956		
							Viola	3,238		
Eastborough North ('52)	8-27-2E	40	1,266	43,555	1		Arbuckle	3,376	25	
Erdwein ('62)	26-25-2E	160	10,960	10,960	4		"Burgess"	2,820	9	
Fairview ('48)	8-26-2E	200	8,089	442,801	5		Lans.-K.C.	2,500		44
							"Burgess"	2,960	2	
							Mississippian	2,991	4	
Fairview North ('48)	5-26-2E	60	3,360	165,384	2		"Burgess"			
Fairview Northeast ('59)	4-26-2E	680	66,098	123,269	14		"Burgess"	2,904	7	42
							Mississippian	2,860	3	
Furley ('58)	10-25-2E	300	13,583	154,673	16	4	"Burgess"	2,857	13	40
Gehring-Rick ('52)	16-28-2E	80	1,970	28,817	2		Mississippian	2,950	40	
Gillian ('61)	33-29-1W	240	43,790	44,877	6		Simpson	3,724	7	43
Gladys ('54)	30-28-1E	37,200	924,310	9,908,287	231		Lans.-K.C.	2,773	9	40
							Mississippian	3,176		
Gladys South ('55)	5-29-1E		no report	10,131			Mississippian	3,194	16	
Gladys Southeast ('55)	4-29-1E	80	928	19,729	2		Mississippian	3,150	15	

[illegible]

Table 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells ab- d. 1962	Producing zone			
			during 1962	to end, 1962			Name	Depth, ft.	Thick- ness, ft.	Acre- age
Kismet* ('48)	23-33-31W	1,440	114,566 195,686	1,519,557	13 20		Toronto Lans.-K. C.	4,864 5,095		34 38
			3,911		1		Marmaton	5,095		
			11,563		2		Morrowan	5,576	5	
			772,852		45		Mississippian	5,771		
Kismet Northwest ('53)	10-33-31W						Morrowan	5,584		
Kneeland ('51)	23-34-31W	40	Combined with Kismet no runs	12,726	1		Marmaton	5,332	14	41
							Mississippian	5,691	6	
Liberal-Light ('51)	11-35-32W	1,700	3,384	242,613	11	1	Lans.-K. C.	5,103		40
							Morrowan	6,005		
Liberal Southeast ('47)	15-35-33W	200	2,755	110,082	5		Morrowan	6,202		
Massoni ('58)	4-33-31W	120	673	8,972	5		Marmaton	5,031	10	38
Plains West ('56)	16-32-31W	40	no runs	1,710	1		Morrowan	5,600	14	
Shuck ('55)	20-33-34W	60	214	4,657	2		Morrowan	5,987		
							Mississippian	6,038	13	
Thirty-One ('53)	18-31-31W	40	1,048	3,895	1		Morrowan	5,448		
Thirty-Three ('60)	33-33-33W	40	11,334	48,564	1		Chesteran	5,898	13	40
Thirty-Two ('60)	1-32-32W	41	864	1,962	1		Morrowan	5,499		
Three Star ('58)	17-35-32W	60	924	6,732	3		Lans.-K. C.	4,546		
							Morrowan	5,866		
							Chesteran	6,089		
Wide Awake ('54)	4-35-34W	40	no runs	11,957	2		Toronto			
							Mississippian			
Total Seward County		5,161	1,257,017	2,157,766	138	2				
SHERIDAN COUNTY										
Adell ('44)	11-6-27W	1,900	160,077	5,406,907	49		Lans.-K. C.	3,755	4	42
Advance ('56)	26-8-27W	40	4,600	69,044	1		Lans.-K. C.	3,883	9	41
Custer ('55)	12-10-26W	120	11,109	85,828	3		Lans.-K. C.	4,024	5	39
Custer Northwest ('59)	2-10-26W	40	5,823	21,463	1		Lansing	3,849	3	42
George ('52)	17-9-26W	120	9,538	109,801	3		Lans.-K. C.	4,023	11	31
George Southwest ('58)	18-9-26W	40	4,157	29,409	1		Lansing	3,860	10	
Hortonville ('53)	20-6-26W	80	6,063	89,052	2		Lans.-K. C.	3,789	23	29
Hoxie ('56)	6-9-28W	140	27,526	205,400	4		Toronto	3,810	6	
			9,291		1		Lansing	3,901	3	
Parnell ('59)	30-7-29W	40	no runs	1,060	1		Lansing	3,972	6	28
Studley ('43)	23-8-26W	300	23,775	630,824	6		Lans.-K. C.	3,810	9	47
Studley South ('59)	27-8-26W		no report	2,087			Lansing	3,746	2	27
Studley Southeast ('55)	26-8-26W	40	2,163	33,464	1		Lans.-K. C.	3,872	8	37
Studley Southwest ('45)	32-8-26W		no report	120,491			Lans.-K. C.	3,758	26	37
Wessel ('53)	27-6-29W	100	no report	115,562			Lans.-K. C.	3,985	4	38
			5,032	62,952	2		Lans.-K. C.	4,081	4	
				954						
Pools or fields abandoned										
Total Sheridan County		2,960	269,151	6,984,298	75					

SHERMAN COUNTY

Llanos ('58)	10-6-37W	160	62,933	420,117	9	Kansas City Marmaton Cherokee	4,439 4,504 4,804	12 5 8	36 37 22
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STAFFORD COUNTY

Albano ('57)	12-25-14W	80	8,890	91,249	2	Lans.-K.C. Mississippian Viola	3,812 4,099 4,270	6 16 10	
Bart-Staff* ('51)	4-21-14W	140	12,392	320,158	4	Arbuckle Lans.-K.C.	3,572	40	
Bayer ('51)	16-21-14W	580	3,874 2,256 59,958	630,827	1 1 8	Lans.-K.C. Viola Simpson	3,543 3,702 3,736	4 10 13	31
Bedford ('40)	21-23-12W	360	7,555	1,857,303	9	Arbuckle Simpson	3,778 3,832	16	
Besthorn ('56)	9-22-13W		no report	none		Arbuckle	3,859	9	36
Brenn ('54)	19-23-13W	600	23,407	371,565	9	Lansing	3,574	8	
Brock ('44)	12-23-12W		no report	437,146		Lans.-K.C.	3,651	6	33
Byron East ('54)	3-21-12W		no report	none		Arbuckle	3,680	4	20
Byron Southeast ('51)	10-21-12W	40	no runs	59,862	1	Arbuckle	3,478	5	
Centerview ('54)	28-24-13W	360	26,816	359,562	11	Lans.-K.C.	3,500 3,834	3 6	
Cephas ('53)	10-25-14W	360	40,135	423,301	10	Arbuckle	4,188	5	
Cephas North ('54)	35-24-14W	80	1,125	39,542	2	Lans.-K.C.	3,701	5	38
Chase-Silica* ('31)	32-19-9W	580	17,874	600,165	14	Viola	4,114	8	
Cleveland ('53)	21-23-14W	80	1,189	41,013	2	Lans.-K.C.	3,794	9	35
Cline ('58)	25-24-13W	40	10,593	39,692	1	Arbuckle	3,383	10	40
Cline South ('61)	36-24-13W		no report	none		Lans.-K.C.	3,690	7	
Crissman ('52)	16-23-14W	380	16,335	339,517	11	"Kinderhook" Lans.-K.C.	3,594 3,913	3 9	
Curtis ('42)	6-22-13W	700	46,126	1,608,719	23	Simpson	3,664 3,984	8 16	34
Dell ('50)	7-21-13W	80	2,341	126,889	2	Arbuckle	4,006	6	
Dell East ('51)	5-21-13W	320	29,405	698,947	12	Lans.-K.C.	3,514	7	30
Dell Northeast ('51)	5-21-13W	80	2,754	39,857	2	Arbuckle	3,693	13	30
Dillwin ('56)	16-24-14W	700	620	1,022,908	1	Lans.-K.C.	3,446	13	36
Drach ('37)	12-22-13W	1,300	77,214 170,776	7,430,198	18 39	Arbuckle Simpson	3,471 3,642	8 5	
						Arbuckle	3,438	36	
						Arbuckle	3,612	3	
						Lans.-K.C.	3,795	118	
						Arbuckle	4,295	6	31
						Simpson	3,642	5	
						Arbuckle	3,690	12	35

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells ab- and.	Name	Sp. Prod.	Thick- ness, ft.	Ave. rate
			during 1962	to end, 1962						
Emerson ('57)	29-25-14W	80	2,529	29,975	2		Lans.-K.C.	3,905	10	32
Emerson South ('62)	32-25-14W	40	408	408	1		Lans.-K.C.	3,791	4	36
Farmington ('43)	34-24-15W	280	8,827	1,265,566	7		Lans.-K.C. "Kinderhook"	3,769		39
							Simpson	4,378	6	
							Arbuckle	4,417	16	
Farmington North ('56)	23-24-15W		no report	none			Viola	4,227	12	21
Farmington Northeast ('55)	26-24-15W	240	28,053	147,947	5		Arbuckle	4,416	12	34
Farmington Northwest ('56)	29-24-15W	40	3,072	40,506	1		Lans.-K.C. "Kinderhook"	3,904	8	25
								4,272	10	
Flora ('62)	36-21-11W	80	3,710	10,460	1		Lans.-K.C.	3,309		
			6,750		1		Conglomerate	3,393	2	49
Foley ('61)	18-25-14W	360	40,945	109,291	4	1	Lans.-K.C.	3,727	59	32
			17,561		3		Mississippian	4,162	4	32
			11,636		2		Viola	4,214	12	21
Frey ('50)	7-21-14W	340	30,295	999,555	9		Arbuckle	3,717	7	40
Gates ('33)	27-21-13W	6,000	612,945	13,119,264	156	6	Lans.-K.C.	3,530		38
							Penn. congl.	3,643		
							Viola	3,635		
German Valley ('61)	4-22-12W	120	22,267	74,973	3		Arbuckle	3,679	37	39
							Viola	3,541	2	38
Glasscock ('59)	32-24-13W	320	56,253	170,361	6		Arbuckle	3,635	2	40
			22,326		2		Lansing	3,642	10	
Glen ('54)	14-23-14W	80	19,352	89,626	2		Arbuckle	4,233	3	
Gray ('46)	11-24-13W	80	1,949	66,390	2		Lans.-K.C.	3,651	6	
Green Ridge ('53)	30-23-14W	80	5,746	34,861	2		Lans.-K.C.	3,672		30
Green Valley ('53)	2-23-14W	40	no runs	28,221	1		Lans.-K.C.	3,788	22	31
Grow ('49)	16-21-13W	400	23,281	628,544	10		Lans.-K.C.	3,640	10	40
							Lans.-K.C.	3,463	7	35
Grunder ('58)	11-25-15W	440	62,916	226,160	12		Arbuckle	3,705		
			718				Lans.-K.C.	3,945	15	
					1		Mississippian	4,173		
H A H ('58)	17-24-13W	40	1,893	23,747	1		Arbuckle	4,424	4	32
Hahn East ('57)	22-22-13W		no report	6,558	1		Lans.-K.C.	3,658	8	
Hammond ('57)	9-25-14W	160	7,863	104,282	4		Arbuckle	3,828	5	22
Happy Valley ('52)	15-23-13W	80	6,525	60,763	2		Lans.-K.C.	3,924	15	36
							Lans.-K.C.	3,430	60	
Happy Valley Northeast ('55)	11-23-13W		no report	59,018	1		Arbuckle	3,810	9	35
Harter ('50)	30-24-13W	160	3,749	138,654	1	1	Arbuckle	3,857	10	31
			1,190				Lans.-K.C.	3,767		39
			8,941		1		Simpson	4,167		
Harter North ('56)	19-24-13W	80	4,167	57,184	1		Arbuckle	4,181		34
Haynes ('59)	22-25-15W	500	43,896	157,358	7		Lans.-K.C.	3,785	5	32
			28,408		5		Lansing	3,784	3	
Haynes East ('60)	23-25-15W	40	4,463	4,463	1		Mississippian	4,232	9	35
							Mississippian	4,254	16	38

Haynes Southwest ('59)	27-25-15W	20	155	186	1	Cherokee	4,254	
Hazel ('42)	21-21-13W	640	17,412	1,076,041	20	Lans.-K.C.	3,380	
						Arbuckle	3,692	9 37
Hazel West ('50)	20-21-13W	720	73,420	1,494,580	26	Lans.-K.C.	3,488	6
						Arbuckle	3,673	5 35
Helene ('59)	17-22-12W		no report	30,946	13	Arbuckle	3,691	4 35
Heyen ('43)	24-22-12W	400	40,486	988,278		Lans.-K.C.	3,321	12
						Arbuckle	3,652	2 39
Hickman ('51)	27-21-14W	640	31,989	1,127,275	20	Lans.-K.C.	3,522	10 24
						Simpson	3,567	6
Hickman South ('52)	34-21-14W	40	5,489	51,364	1	Lans.-K.C.	3,419	8 37
Hickman West ('59)	33-21-14W	160	44,114	142,955	5	Lansing	3,602	5 34
Hudson South ('61)	4-23-12W	40	1,386	2,657	1	Viola	3,499	23 40
Hufford ('48)	33-21-13W	440	46,941	1,284,952	17	Lans.-K.C.	3,755	30
						Arbuckle	3,722	7 34
Jordan ('36)	15-25-14W	420	35,651	1,187,978	12	Lans.-K.C.	3,946	5
Kachelman ('50)	7-25-13W	100	7,772	118,941	2	Lans.-K.C.	4,075	33
			2,893		1	Viola	4,294	
Keeley ('59)	5-21-14W	60	2,119	22,189	2	Arbuckle	3,322	5 26
Keenan ('57)	20-22-13W	100	7,420	36,230	3	Lansing	3,572	6 30
Kelly West ('59)	34-23-12W	40	2,856	15,597	1	Lansing	3,396	6 34
Kenilworth ('47)	15-22-13W	400	27,438	645,812	10	Lans.-K.C.	3,505	34
						Arbuckle	3,808	
Kipp ('37)	27-25-14W	200	9,982	734,502	4	Lans.-K.C.	3,827	79 32
					1	Simpson	4,243	6
Kipp North ('54)	23-25-14W	80	3,739	88,145	2	Lans.-K.C.	3,748	10 32
Kipp Northeast ('46)	23-25-14W	120	7,291	303,230	3	Lans.-K.C.	3,844	32
Kipp Southwest ('57)	28-25-14W	140	7,970	87,982	5	Lans.-K.C.	3,850	8 34
Knoche South ('57)	17-24-12W	320	62,112	157,132	8	Viola	3,872	5 35
Koelsch ('52)	24-24-14W	360	14,033	373,184	9	Lans.-K.C.	3,750	8
Koelsch Southeast ('52)	25-24-14W	120	9,724	524,779	3	Simpson	4,181	4 41
						Arbuckle	4,187	
Koelsch West ('59)	23-24-14W	40	5,004	23,924	1	Lansing	3,612	4 34
Kowalsky* ('41)	32-20-11W	200	54,213	444,255	5	Lans.-K.C.	3,279	50
Kowalsky Southwest ('50)	6-21-11W	460	34,110	381,051	12	Penn. congl.	3,404	6
						Simpson	3,398	23
Krankenbergs ('56)	19-22-12W		no report	6,158		Arbuckle	3,424	46
K-W ('62)	7-23-13W	40	1,096	1,096	1	Simpson	3,711	5 38
Leesburgh ('38)	12-25-13W	640	85,517	3,190,670	15	Kansas City	3,491	6 28
			3,451		1	Lans.-K.C.	3,837	30
						Simpson	4,060	24 38
						Arbuckle	4,153	10
Leiss ('56)	23-25-13W	80	6,813	57,779	2	Simpson	4,215	7 40
Leiss Southeast ('61)	25-25-13W	80	17,034	18,805	2	Lans.-K.C.	3,646	6 32
Leo ('50)	7-21-13W	160	10,483	120,165	4	Lans.-K.C.	3,475	26
						Arbuckle	3,636	4
Lincoln ('51)	29-21-14W	200	19,896	283,786	5	Lans.-K.C.	3,543	8 33
						Simpson	3,739	4 31
McCandless ('44)	30-25-13W	880	100,805	1,834,359	18	Lans.-K.C.	3,863	
			67,020		9	Simpson	4,251	16 37
McCandless Northeast ('60)	20-25-13W	200	11,175	68,652	2	Simpson	4,250	10 35
			25,359		3	Arbuckle	4,322	5 35

Table 34.—Oil production in Kansas during 1962, continued

Producing zone										
Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl		Pro- ducing wells	Wells abd., 1962	Name	Sp. ft.	Thick- ness, ft.	Ave. grav.
			during 1962	to end, 1962						
McGinty Northwest ('51)	14-21-14W	440	Abandoned during 1962		10		Lans.-K. C.	3,483	5	31
Macksville ('60)	3-24-15W		47,791	173,852			Lans.-K. C.	3,735	6	
Macksville East ('54)	14-24-15W	140	4,519		1		Arbuckle	4,110		
			2,597	97,172	2	1	Viola	4,126	20	37
			15,106		3		Arbuckle	4,091	4	
Macksville Townsite ('61)	15-24-15W	4,200	no report	none	1		Simpson	4,153	10	35
Max ('38)	35-21-12W		255,352	8,987,387	88	2	Lans.-K. C.	3,356	16	35
							Simpson	3,615	2	
							Arbuckle	3,570	7	
Max East ('61)	6-22-11W	40	186	944	1		Arbuckle	3,551	17	30
Max North ('58)	26-21-12W	80	9,938	65,592	2		Arbuckle	3,590		
Merle ('49)	32-23-13W	440	4,502	347,219	11	1	Lans.-K. C.	3,669	10	34
Moody ('56)	7-25-14W	580	130,736	644,646	21		Mississippian	4,168	14	
Mopac ('54)	30-24-11W	200	10,085	221,766	5	1	Viola	3,908	5	
Morning Star ('58)	1-25-14W	Combined with Seevers Northwest					Lans.-K. C.	3,664	3	
							Mississippian	4,025	18	
							Arbuckle	4,280		
Mt. View ('52)	29-22-13W	120	22,060	185,502	3		Lans.-K. C.	3,641	8	36
							Arbuckle	3,858		
Mueller ('38)	29-21-12W	4,000	265,822	8,738,999	83	1	Lans.-K. C.	3,356		
Nellie East ('60)	27-22-14W	40	9,945	25,670	1		Arbuckle	3,594	8	36
Neola ('48)	15-25-11W	80	2,183	48,307	2		Lans.-K. C.	3,503	7	30
Newell ('53)	7-25-11W	160	13,810	109,742	3		Viola	3,921	4	40
							Lans.-K. C.	3,537	3	36
							Viola	3,913	3	
North Star ('52)	27-24-12W	40	3,079	362,071	1		Viola	3,915	16	40
							Simpson	4,063	9	
O'Connor ('48)	8-24-15W	40	1,075	34,234	1		Lans.-K. C.	3,768	11	29
							Simpson	4,022	23	31
Omlor ('57)	10-22-14W	120	17,434	95,850	3		Lans.-K. C.	3,550	9	35
Oscar ('49)	24-22-14W	80	1,281	212,054	2		Lans.-K. C.	3,503	3	35
							Viola	3,777	7	
							Arbuckle	3,798	9	
Oscar North ('51)	14-22-14W	440	58,523	916,868	11		Arbuckle	3,780	3	35
Oscar South ('53)	26-22-14W	400	10,680	211,455	5		Lans.-K. C.	3,580		
							Arbuckle	3,817	2	
Oscar West ('52)	22-22-14W	940	152,012	1,187,824	23		Lans.-K. C.	3,593	8	35
Pleasant Grove ('52)	26-22-12W	280	8,709	211,044	7		Lans.-K. C.	3,462	8	37
Praeger ('59)	36-24-15W	400	22,874	169,092	10		Mississippian	4,209	5	
							Arbuckle	4,392	6	35
							Lans.-K. C.	3,395	3	35
Prairie Home South ('53)	11-21-13W	40	217	25,713	1		Lans.-K. C.	3,483	4	
Pritchard* ('44)	34-20-14W	260	14,887	410,270	6	1	Lans.-K. C.	3,183		
							Arbuckle	3,579	4	27
Pundsack ('47)	19-21-13W	1,400	90,242	2,113,146	31	2	Lans.-K. C.	3,575	8	
							Arbuckle	3,735		

Locality	Year	Area	Depth	Volume	Weight	Count	Notes
Pundsack North ('50)	18-21-13W	80	5,320	170,038	2	3,493	Lans.-K.C.
Radium Townsite ('53)	5-22-14W	600	96,918	855,943	16	3,674	Arbuckle
						3,584	Lans.-K.C.
						3,754	Viola
						3,820	Simpson
Radke ('53)	25-23-14W	40	no runs	19,392	1	3,852	Arbuckle
Radke East ('54)	24-23-14W	40	1,250	19,916	1	3,688	Lans.-K.C.
Rattlesnake ('38)	13-24-14W	120	3,015	232,857	3	3,676	Lans.-K.C.
Rattlesnake East ('56)	7-24-13W	120	11,591	159,403	3	3,694	Lans.-K.C.
						3,880	Mississippi
Rattlesnake North ('59)	2-24-14W	40	no runs	8,563	1	3,964	Penn. congl.
Rattlesnake Southeast ('54)	13-24-14W	400	8,833	283,223	2	3,758	Lans.-K.C.
			70,664		8	3,936	Mississippi
Rattlesnake Southwest ('50)	14-24-14W	40	4,736	140,892	1	3,760	Lans.-K.C.
Rattlesnake West ('44)	11-24-14W	120	7,050	209,900	3	3,759	Lans.-K.C.
						4,025	Mississippi
Richardson ('30)	36-22-12W	1,900	313,982	15,345,072	60	3,264	Lans.-K.C.
						3,537	Arbuckle
Riley ('40)	28-23-11W		no report	147,193		3,323	Lans.-K.C.
Rolling Green* ('60)	36-20-13W		no report	none		3,238	Lans.-K.C.
Rolling Green East* ('49)	30-20-12W	40	2,980	8,926	1	3,491	Arbuckle
Rose Valley ('52)	36-25-13W	40	1,824	50,836	1	3,824	Lans.-K.C.
						4,137	Viola
Rothgarn ('43)	10-21-13W	700	52,300	510,601	12	3,369	Lans.-K.C.
						3,569	Arbuckle
Rothgarn Southeast ('50)	14-21-13W	160	10,000	289,734	4	3,378	Lans.-K.C.
						3,544	Arbuckle
Rugan ('61)	2-21-11W	40	8,970	9,559	1	3,374	Arbuckle
St. John ('35)	23-24-13W	720	57,479	3,052,242	15	3,588	Lans.-K.C.
						4,075	Arbuckle
St. John East ('59)	24-24-13W		no report	3,625		3,543	Lans.-K.C.
St. John North ('52)	20-23-13W		Combined with St. John Northwest	196,646	13	3,603	Lans.-K.C.
St. John Northwest ('52)	20-23-13W	400	27,258			3,644	Lans.-K.C.
						3,956	Arbuckle
St. John Townsite ('44)	33-23-13W	120	6,059	490,545	3	3,919	Lans.-K.C.
						3,132	Arbuckle
Salt Marsh ('61)	32-21-11W	40	3,818	5,669	1	3,480	Lans.-K.C.
Sandago ('47)	12-21-12W	120	8,651	222,611	3	3,199	Lans.-K.C.
Sand Hills ('44)	19-21-11W	700	98,040	495,654	14	3,434	Viola
						3,481	Simpson
						3,548	Arbuckle
Saterlee ('54)	31-24-14W	180	15,144	122,332	3	4,166	Penn. congl.
						4,172	Mississippi
Sandra ('46)	14-21-12W	700	35,932	459,313	13	4,385	Arbuckle
						3,282	Lans.-K.C.
						3,546	Arbuckle
Seevers ('54)	6-25-13W	160	18,309	152,838	5	3,893	Lans.-K.C.
Seevers Northwest ('56)	6-25-13W	900	258,055	1,348,320	41	3,826	Lans.-K.C.
						4,042	Mississippi
						4,192	Arbuckle

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abdi. 1962	Name	Spd. Q ₁	Thick- ness, ft.	Ave. grav.
			during 1962	to end, 1962						
Shaeffer ('41)	3-21-13W	680	73,264	1,128,919	18		Lans.-K.C. Penn. congl. Simpson	3,404 3,519 3,536		40
Shaeffer Northeast* ('60)	35-20-13W	160	25,274	45,322	4		Arbuckle	3,546	4	
Shepherd ('51)	16-22-11W	240	8,869	374,795	6		Lans.-K.C. Arbuckle	3,259 3,525	5 18	28 40
Shepherd North ('54)	9-22-11W	80	10,931	101,055	2	1	Arbuckle	3,548	35	40
Shepherd Northwest ('56)	8-22-11W	40	2,249	42,306	1		Lans.-K.C. Penn. congl. Simpson	3,297 3,446 3,528	5 8 12	40 40 40
Silver Bell ('49)	10-22-13W	120	21,918	248,464	3		Arbuckle	3,516	12	
Sittner ('37)	33-21-12W	200	11,320	871,482	5		Lans.-K.C. Arbuckle	3,498 3,774	30 11	30
Slade South* ('61)	35-25-12W	120	36,322	36,322	3		Lans.-K.C. Arbuckle	3,278 3,600	36 9	36
Sleeper South ('62)	34-22-11W	40	8,697	8,697	1		Viola	4,048	27	39
Smallwood ('51)	2-22-14W	900	60,925	1,101,937	20	1	Lans.-K.C. Arbuckle	3,608 3,618 3,474	4 29 11	39 32 32
Snider ('36)	3-21-11W	820	31,701 68,937	883,084	7 11	1	Penn. congl. Simpson	3,576	11	
Snider Northwest ('62)	5-21-11W	900	Abandoned during 1962				Arbuckle	3,362	26	43
Snider South ('38)	16-21-11W		2,414	2,084,489	1		Marmaton	3,360	4	42
Spangenberg ('43)	21-22-12W	40	117,558		15		Simpson	3,402	6	34
Spangenberg South ('62)	27-22-12W		44,815		7		Penn. congl.	3,338		
Stafford ('40)	15-24-12W		no report	84,508			Arbuckle	3,691	6	37
Steve ('60)	24-21-12W	40	6,254	6,254	1		Arbuckle	3,685	3	35
Strobel ('52)	9-22-14W	320	9,417	3,731,707	4		Viola	3,836	14	41
			366	1,701	1		Arbuckle	3,945	10	35
			29,129	193,003	8		Arbuckle	3,556	23	35
Strobel Northwest ('52)	8-22-14W	40	2,906	55,105	1		Lans.-K.C. Simpson	3,659	4	37
Suiter ('62)	24-24-15W	40	505				Arbuckle	3,864	8	
Sutton ('54)	21-22-14W	120	6,389	77,006	1		Simpson	3,852	2	
Syms Southeast ('52)	27-21-12W	120	29,301	128,774	3	1	Arbuckle	3,874	6	28
Taylor ('52)	15-21-14W	140	18,667	148,481	3		Viola	4,154	6	28
					12		Lans.-K.C. Viola	3,638 3,482	3 5	34
Taylor Northeast ('57)	11-21-14W	340	104,638	402,556	12	1	Arbuckle	3,565	5	
Taylorville ('53)	29-25-12W		no report	28,763			Lans.-K.C.	3,690	10	36
Taylor West ('59)	16-21-14W		no report	4,400			Simpson	3,688	4	
							Viola	3,462	6	
							Simpson	4,006	15	37
								3,704	4	39

Table 34—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abd. 1962	Producing zone			
			during 1962	to end, 1962			Name	Depth, ft.	Thick- ness, ft.	Aver- age
Bitter Creek ('53)	1-35-1E	340	30,814	432,402	10		"Stalnaker"	2,353	13	
Caldwell ('29)	17-35-3W	140	6,598	1,697,769	2	3	Mississippian	3,500	15	37
Caldwell Northwest ('52)	8-35-3W		no report	61,790			Mississippian	4,408	8	
Churchill ('26)	25-31-2E	840	30,024	20,056,360	18		Simpson	4,765	19	
							"Stalnaker"	4,835	20	39
							"Layton"	1,820	25	
Cole ('60)	24-31-4W	240	44,607	124,144	6		Arbuckle	1,874	1	
Conway Springs ('59)	5-31-3W	440	171,720	475,277	11		Simpson	2,632	24	
Corbin ('48)	23-34-2W		no report	37,286			Simpson	4,403	4	47
Crowe ('58)	10-35-1W		no report	3,302			Simpson	4,370	6	42
Fall Creek ('50)	3-35-3W	480	11,788	2,730,973	2		"Layton"	4,475		
			1,196		1		Lans.-K.C.	3,245	5	
			47,764		7		Mississippian	3,608	13	39
Gerberding ('54)	6-34-4W	80	8,067	123,768	3		Simpson	4,282	10	
Guelph ('51)	6-35-1E	600	66,666	2,238,220	10		Simpson	4,710	5	46
			106,526		14		Lans.-K.C.	4,710	5	35
			5,386		1		Simpson	3,028	45	45
Harrington ('60)	24-30-3W		Abandoned during 1962				Arbuckle	3,854	10	
Holman ('60)	26-33-2E	80	20,624	45,417	2		"Burgess"	3,969		
Horsch ('58)	4-31-1W	40	3,795	20,385	1		Mississippian	3,797	2	
Interchange ('59)	19-32-1E	100	33,895	102,078	3		Mississippian	3,304	6	
Kerley ('59)	1-30-1W		no report	6,387			Simpson	3,664	8	42
Kerschen ('55)	17-31-3W	580	56,259	756,259	17		Simpson	4,053	7	
							Lans.-K.C.	3,828	6	
Latta ('27)	9-30-2W	840	72,894	1,754,094	21		Mississippian	3,267		
							Lans.-K.C.	3,912	10	
Latta Northwest ('56)	5-30-2W	380	77,209	332,079	12	1	Mississippian	3,042	14	
Lee ('51)	33-32-2E	240	8,866	162,292	6		Kansas City	3,656	12	
McIlhenny ('58)	1-31-4W	40	2,934	15,781	1		Mississippian	3,172	4	
Margaret ('46)	36-32-2E	40	5,490	127,014	1		Kansas City	3,349	8	
Markley ('58)	22-30-1E	360	93,985	322,020	10		Arbuckle	3,575	3	
Mayfield ('57)	19-32-2W	80	1,491	31,998	2	2	Simpson	3,474	5	
Mells ('60)	5-34-2E	100	5,416	26,379	3		Simpson	3,809	5	
							"Bartlesville"	4,278	5	
Metz ('51)	7-32-2E		no report	56,080			Mississippian	3,435	8	
							Simpson	3,459	9	
							Arbuckle	3,735	6	37
Milan ('60)	2-32-3W		Abandoned during 1962				Mississippian	3,773	4	
Moyer ('58)	12-31-3W	150	18,092	110,104	5		Kansas City	3,909	12	
Moyer Northwest ('59)	2-31-3W	140	15,804	69,802	5		Kansas City	3,344	2	
Murphy* ('33)	7-35-3E	4,000	157,912	5,502,635	199	2	Kansas City	3,173	2	38
							"Layton"	2,808		
Norris ('55)	3-34-2E		Abandoned during 1962				"Bartlesville"	2,808		
O'Hara ('55)	18-32-1W	500	37,268	312,260	14		"Layton"	3,472	10	
Olive Branch ('60)	11-33-3W	140	44,467	135,396	4		Lans.-K.C.	2,785	3	30
							Simpson	3,256	8	
							Simpson	4,444	4	45

THOMAS COUNTY

tioned during 1962
no report

Cherokee	4,595	31
Tarkio	3,728	4
		27

TABLE 34.—Oil production in Kansas during 1962, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Name	Producing zone		
			during 1962	to end, 1962			Depth, ft.	Thick- ness, ft.	Aver- age
Mingo ('52)	19-9-32W	40	no runs	22,892	1	Marmaton	4,414		
Pools or fields abandoned						Mississippian	4,680		
Total Thomas County					I				
TREGO COUNTY									
Adair ('53)	21-12-21W		no report	23,162		Marmaton	3,879	5	37
Adair Southwest ('56)	28-12-21W		no report	11,161	1	Marmaton	3,856	10	
Bin ('58)	31-11-22W	40	195	3,115	1	Lansing	3,776	6	
Cotton ('45)	15-12-21W	40	2,643	57,589	1	Arbuckle	3,958	34	30
Cotton East ('47)	14-12-21W	40	2,543	74,362	1	Arbuckle	3,942	6	40
Diebolt* ('53)	33-10-23W	560	36,289	727,860	14	Lans.-K.C.	3,779	6	35
Egger ('58)	12-13-21W	120	8,018	101,193	1	Lans.-K.C.	3,450	6	
Ellis* ('42)	31-12-20W	700	10,396	900,846	2	Arbuckle	3,825	3	
			66,635		16	Lans.-K.C.	3,632	4	
Ellis Northwest ('44)	26-12-21W	160	6,042	267,098	3	Arb.-Reagan	3,832	8	35
Ellis Southwest ('59)	2-13-21W	40	3,522	14,213	1	Arbuckle	3,925	2	35
Groff ('52)	26-14-21W	900	71,848	960,767	21	Lans.-K.C.	3,797	8	40
						Marmaton	3,493	10	36
						Penn. congl.	3,755	17	
Hixson East ('60)	20-11-22W	40	no runs	1,555	1	Marmaton	3,873	3	34
Homburg ('55)	11-13-21W	40	1,278	19,210	1	Marmaton	3,800	10	32
Kohl ('62)	11-12-21W	120	6,085	9,384	1	Lansing	3,694	2	34
			3,299		2	Arbuckle			
Kutina ('53)	29-15-21W	200	23,712	265,412	5	Mississippian	4,151		
Mong ('62)	25-11-23W	80	12,748	12,748	2	Lansing	3,620	5	41
Newcomer Northwest ('56)	12-12-23W	640	145,529	1,278,337	35	Lans.-K.C.	3,733	3	37
Newcomer Northwest ('56)	2-12-23W		Combined with Newcomer			Lans.-K.C.	3,763	5	38
Nicholson* ('45)	30-11-20W	160	87,199	146,535**	5	Arbuckle	3,842	12	34
Ogallah ('51)	26-12-22W	3,000	550,575	6,787,571	73	Arbuckle	3,961	24	38
Ogallah Northwest ('57)	21-12-22W		no report	15,893		Lans.-K.C.	3,724	3	38
Rhoden ('56)	24-12-23W	240	10,616	126,440	6	Lans.-K.C.	3,764	6	32
Ridgeway ('52)	26-12-21W	400	17,984	346,334	7	Lans.-K.C.	3,693	13	36
Riga Northeast ('57)	9-13-21W	100	5,307	44,102	3	Arbuckle	3,896		
						Lansing	3,503	28	
Scanlon ('62)	18-11-24W	60	10,038	10,038	1	Arbuckle	3,915	2	39
Sunny Slope ('52)	21-14-21W	640	40,146	544,635	11	Lans.-K.C.	3,868	6	34
Sunny Slope Northwest ('58)	21-14-21W		no report	2,052		Marmaton	3,848	14	39
Trico* ('51)	30-10-20W	1,000	226,392	2,200,275	47	Penn. congl.	3,944	5	
						Lans.-K.C.	3,573	7	
Voda ('57)	28-11-24W	400	83,741	205,479	9	Arbuckle	3,688	7	
Wakeeney ('34)	14-11-23W	120	11,662	961,032	3	Lans.-K.C.	4,008	4	36
						Lans.-K.C.	3,619	8	38

Wakeeney East ('49)
Walz ('50)
Walz Northwest ('57)
Pools or fields abandoned
Total Trego County

24-11-23W	160	6,487	45,345	1	Lans.-K.C.	3,624	4	34
12-11-21W	1,200	125,909	982,667	21	Lans.-K.C.	3,428	9	35
					Arbuckle	3,666	11	
12-11-21W	160	13,644	133,366	4	Arbuckle	3,693	2	
	11,360	1,590,482	17,373,893	300			5	

WABAUNSEE COUNTY

Ashburn ('58)
Davis Ranch ('49)
Mill Creek ('50)
Newbury ('50)
Wheat ('51)
Wilmington ('59)
Woodbury ('51)
Total Wabaunsee County

29-14-10E	120	26,844	107,482	4	Viola	3,255	7	
33-13-10E	840	11,177	3,001,900	3	Lans.-K.C.	1,850	4	
		171,706		18	"Hunton"	2,929	15	29
2-13-10E	100	12,937	314,745	3	Viola	3,201	4	27
11-11-11E	240	11,682	330,571	6	Viola	2,901	4	27
10-15-11E		no report	18,690		Simpson	3,230	4	
29-14-12E	40	14,484	54,234	1	Viola	2,996	6	23
11-15-10E	80	8,220	132,910	2	Simpson	3,099	3	
	1,420	257,050	3,967,111	37	Viola	3,328	5	
			recorded					

WICHITA COUNTY

Carwood ('57)
White Women ('62)
Total Wichita County

16-17-37W		no report	1,369		Marmaton	4,528	4	
34-20-35W	40	1,404	1,404	1	Marmaton	4,512	8	32
	40	1,404	2,773	2				

WILSON COUNTY

Altoona ('03)
Altoona East ('35)
Benedict
Buffalo* ('24)
Coyville West ('54)
Fredonia (1890)
Humboldt-Chanute*
Neodesha*
Neodesha East
Vilas ('05)
Miscellaneous
Total Wilson County

10-29-16E	2,440	164,292		122	"Squirrel"	650	4	
29-17E	380	15,267		22	"Bartlesville"	900	1	
28-15E	520	24,431		39	"Bartlesville"	900	2	
27-16E	1,520	25,444		122	"Bartlesville"	1,000		
					"Bartlesville"	1,025		
					Cherokee	1,150		
27-13E	120	592	7,277	4	Cherokee			
29-15E	440	8,638		30	"Burgess"	1,050		
28-17E	100	476		11	"Bartlesville"	850	2	
30-16E	4,800	112,981		275	"Bartlesville"	950	4	
30-17E	240	9,534		5	Cherokee		2	
27-17E	240	2,229		12	"Bartlesville"	1,000	1	
	40	925		5			4	
	10,840	364,809	7,414,750	647			20	
			recorded					

WOODSON COUNTY

Big Sandy ('23)

23-26-14E	1,200	50,859		64	"Bartlesville"	1,230	50	
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Table 34.—Oil production in Kansas during 1962, concluded

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Wells abdn. 1962	Producing zone		
			during 1962	to end, 1962			Name	Sp. of oil	Thick- ness, ft.
Buffalo* ('24)	26-16E	440	8,229		80		"Bartlesville" Cherokee	950	
Evans ('38)	21-23-15E	80	1,788		4		Mississippian	1,150	
"Gordon" ('54)	13-24-15E	360	37,377	164,986	21		"Squirrel"	1,540	16
Humboldt-Chanute*	25-17E	1,100	29,753		48	2	"Bartlesville"	1,080	
McWhorter ('55)	35-26-13E	20	538	7,153	1		Mississippian	1,900	
Neosho Falls-Leroy* ('05)	35-22-16E	2,000	35,688		88	3	"Squirrel"	1,417	
							Mississippian	965	
Perry-Halligan	26-17E	1,500	33,057		132	7		1,200	
Piqua ('38)	22-24-17E	240	1,742		8		Mississippian	1,190	
Quincy* ('32)	14-25-13E	1,540	117,660		93	2	"Bartlesville"	1,500	
Rose East ('54)	16-26-16E	840	33,301	338,336	36		"Bartlesville"	1,109	15
Silver City ('46)	19-26-15E	480	6,348		18		"Bartlesville"	1,525	
Steele ('52)	20-23-15E		no report	8,220			Mississippian	1,000	17
Toronto*	16-26-13E		no report				"Peru"	1,700	
Vernon	23-16E	3,900	98,783		102	2	"Bartlesville"	1,068	6
Virgil North* ('20)	22-23-13E	1,340	43,823		34	3	"Squirrel"	1,420	
							Mississippian	1,585	
Winterscheid*	23-14E	13,000	296,423		338	3	"Bartlesville"	1,840	15
Wissman ('36)	3-24-15E	340	3,253				Mississippian	1,630	
Yates Center	28-25-15E	1,420	16,978		8		Mississippian	1,750	
Miscellaneous		160	18,694		34		Mississippian	1,520	
Total Woodson County		29,960	834,294	13,508,683 recorded	1,117	22	Mississippian	1,480	

+ Estimate.

* Field extends into adjacent county or counties.

** Corrected cumulative.

TABLE 35

GAS PRODUCTION IN KANSAS DURING 1962

FOOTNOTES

- *Field extends into adjacent county or counties.
- **All figures at base of 14.65 psia.
- + Estimated.
- *Prorated and or spaced by Conservation Division, Kansas Corporation Commission.

TABLE 25.—Gas production in Kansas during 1962

Table 35 - Gas production in Kansas during 1962								
Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**		No. wells	Producing zone		Depth, ft.
			During 1962	To end of 1962		Name		
ALLEN COUNTY								
Elsmore West	26-18E		Included with Miscellaneous				"Squirrel"	740
Humboldt-Chanute*			Included with Miscellaneous				"Bartlesville"	850
Miscellaneous		1,800	180,000		70+			
BARBER COUNTY								
Aetna Gas Area ('35) ^a	13-34-15W	2,840	5,774,983	28,946,145	68	Mississippian		4,850
Aetna Northwest ('61)	4-34-15W		no report	none		Viola		5,215
Boggs Southwest ('55)	30-33-12W	3,700	2,686,243	43,044,792	30	Cherokee		4,761
			"Driftwood" ^a			Mississippian		4,456
Brooks ('62) ^a	32-31-13W	100	27,750	27,750	1	Douglas		3,731
Cedar ('57)	25-33-10W		no report	none		Mississippian		4,543
Clara ('44)	2-30-14W		no report	803,532		Marmaton		4,381
						Simpson		4,435
						Viola		4,509
						Arbuckle		4,540
						Simpson		4,582
Cottonwood Creek ('48)	21-30-14W		Abandoned during 1962			Viola		4,931
Deerhead ('42)	26-32-15W		no report	1,896,083		Mississippian		4,902
DeGeer ('48)	2-33-15W		no report	140,442		Viola		5,176
Donald ('46)	33-31-15W	500	2,183,039		10	"Miss. lime"		4,697
Elsea ('56) ^a	27-32-14W	200	236,846	2,894,758	4	Mississippian		4,662
Elwood ('56) ^a	34-34-13W	500	325,568	6,293,918	8	"Elgin"		3,662
Hardtner ('54) ^a	31-34-12W	5,000	5,060,934	69,856,983	47	Cherokee		4,791
						Mississippian		4,782
ILS ('56)	9-31-11W	240	530,723	1,322,733	6	Douglas		3,766
			"ILS Southwest" ^a					
ILS Southwest ('59)	17-31-11W		Combined with ILS			Viola		4,435
Lake City ('45)	7-31-13W		Included with Skinner		1	"Douglas sand"		3,808
Little Bear Creek ('54)	12-32-14W	40	27,509	1,409,948		Viola		4,670
McGuire-Goeann ('56) ^a	24-32-11W	800	527,086	7,883,893	9	Mississippian		4,403
McReynolds ('59)	19-31-10W	100	91,188	91,188	2	Mississippian		4,530
Medicine Lodge-Boggs ('27)	13-33-13W	12,400	3,532,305	267,429,050	54	"Douglas sand"		3,812
			"Bartholow" ^a		2	Mississippian		4,480
			56,240		7	Simpson		4,860
			1,561,275					
Medicine Lodge North ('54)	25-32-13W		Included with Medicine Lodge-Boggs	1,927,478		Mississippian		4,480
Nippawalla ('51)	13-33-12W	80	41,943		2	"Douglas sand"		3,659
						Mississippian		4,541

Nurse ('53)	23-31-13W	120	216,923	512,522	2	"Douglas sand" Mississippian	3,599
Palmer ('58) ^a	30-32-13W	1,000	1,753,609	4,605,380	21	Mississippian	4,194
Perry Ranch* ('59)	12-32-16W	400	1,053,013	1,750,319	10	Mississippian	4,530
			Includes Comanche County				4,785
Rhodes ('54)	4-33-11W	9,000	3,590,126		18		
			500,415	"Rhodes Northwest" ^a	7	"Douglas sand"	3,548
			2,525,134	"Rhodes North" ^a	15	Mississippian	4,551
Rhodes Northeast ('56) ^a	2-33-11W	1,500	1,867,884	11,348,333	15	Mississippian	4,500
Rhodes South ('57) ^a	6-34-11W	600	486,237	4,465,368	11	Mississippian	4,564
Roundup South ('53)	33-33-11W	150	340,241		3	Mississippian	4,457
Salt Fork ('62)	3-35-15W		no report	none		Mississippian	4,856
Sharon* ('55)	13-32-10W		no report	none		Mississippian	4,355
Sharon Northwest ('56) ^a	11-32-10W	1,890	1,587,123	14,332,642	17	Mississippian	4,347
Skinner ('43)	29-31-14W	470	220,614	29,111,020	7	"Douglas sand"	4,023
						Lans -K.C.	4,109
						Marmaton	4,294
						Simpson	4,422
						Viola	4,630
Stumph ('52)	7-32-14W	800	823,234	5,452,523	10	Stalnaker	4,054
Traffas ('55)	6-33-10W	100	148,418	148,418	2	Marmaton	4,718
Turkey Creek East ('57)	21-30-15W	40	400		1	Mississippian	4,590
Wells ('58)	18-34-15W	40	86,668	107,181	1	Viola	4,557
Whelan ('34)	32-31-11W	120	616,057		3	Marmaton	4,694
						Douglas	3,598
						"Chat"	4,355
Whelan East ('54)	21-31-11W		no report	209,616	1	"Douglas sand"	3,746
Wolgamott ('57)	16-35-14W	40	67,179	153,981		Cherokee	4,865
Pools or fields abandoned							
Total Barber County		42,770	38,546,907	592,884,472	386		
BARTON COUNTY							
Adolph ('47)	16-20-15W		no report			Arbuckle	3,734
Ash Creek* ('47)	31-20-15W	40	157,717		1	Simpson	3,750
						Arbuckle	3,784
Behrens ('44)	6-20-15W	200	140,570		4	Arbuckle	3,639
Behrens Northeast ('55)	29-19-15W		Abandoned during 1962				
Bloomer* ('37)	36-17-11W		no report			Arbuckle	3,783
Chase-Silica* ('36)	6-19-9W	150	Included with Rice County		5	Arbuckle	
Converse ('53)	20-20-15W		616,591	398,567	1	Arbuckle	
Eberhardt ('35)	14-19-11W	40	no report		2	Arbuckle	
Fort Zarah ('51)	28-19-12W	60	18,332	1,194,026	4	Penn. congl.	3,496
Heizer Southwest ('52)	21-19-14W	110	77,103	928,937			
Krier ('44)	30-16-11W		15,631				
			Within Kraft-Prusa field				
Merten Southwest ('58)	7-19-15W		no report	none		Reagan	3,597
Otis-Albert* ('30)	11-18-16W		Included with Rush County			Neva	3,507
Pawnee Rock* ('36)	13-20-16W		no report			Arbuckle	
Pritchard	-20-14W	40	3,731		1		

Table 35.—Gas production in Kansas during 1962, continued

Pool or field name and year of discovery	Location of discovery well	Gas production, M cu. ft.**		No. wells	Producing zone		Depth, ft.
		Area, acres	During 1962		Name		
Rick* ('41)	11-19-11W		no report		Arbuckle		3,355
Unruh ('45)	24-20-15W	40	2,117	1	Arbuckle		3,641
Pools or fields abandoned							
Total Barton County		680	1,031,792	19			
CHASE COUNTY							
Altemus	26-18-8E		Abandoned during 1962		L. Permian		500
Elmdale ('21)	19-7E	300	12,000+	7+	Wabaunsee		800
Lipps ('25)	32-18-7E		Included with Elmdale				
Miscellaneous		800	22,000+	25+			
Total Chase County		1,100	34,000+	32+			
CHAUTAUQUA COUNTY							
Peru-Sedan		40	19,607	1			
Miscellaneous		300	120,000+	9+			
Total Chautauqua County		340	139,607+	10+			
CLARK COUNTY							
Ashland ('51)	35-32-23W		no report		Mississippian		5,195
Cavalry Creek ('55)	3-31-21W	100	9,938	1	Morrowan		5,630
Clark Creek ('59)	8-35-22W	170	43,067	1			
Harper Ranch ('53)	9-34-21W	8,000	109,667	28			
McKinney* ('50)a	2-34-26W	7,500	4,362,594	14	Morrowan		5,437
Morrison Northeast ('54)	10-32-21W	1,200	1,935,005	19	Mississippian		5,762
Sitka ('59)a	13-33-22W	6,000	152,761	3	Morrowan		5,193
Sitka Northeast ('60)a	5-33-21W	2,000	855,595	10	Morrowan		5,266
Snake Creek ('52)	21-34-21W	7,000	209,489	4	Morrowan		5,243
Snake Creek Northeast ('59)	13-24-21W		2,335,282	18	Morrowan		5,452
Tuttle West ('57)	10-35-21W	240	no report		Morrowan		5,444
Total Clark County		32,210	217,981	2			
			10,231,379	100			
COFFEY COUNTY							
Miscellaneous		60+	100+	3+			
COMANCHE COUNTY							
Beals ('55)	5-34-17W	240	604,015	3	Lans.-K.C. Simpson		4,393
Glick* ('57)a	31-30-16W	6,000	3,671,618	12	Mississippian		5,670
			6,912,317				4,880

Nescatunga ('60)	22-32-18W	200	1,686,788	1,706,986	5	Mississippian	5,106
Perry Ranch* ('58)	12-32-16W					Viola	5,600
Robbins Ranch ('53)	23-31-16W		Included with Barber County	538,864		Mississippian	4,785
Shimer ('61)	13-33-17W		no report	none		Mississippian	4,915
Tuttle ('57)	6-35-20W		no report	none		Mississippian	5,014
Total Comanche County		6,440	5,962,421	9,775,452	20	Morrowan	5,538

COWLEY COUNTY

Arkansas City Gas Area	34- 4E		Included with Miscellaneous				
Brown West ('51)	14-31- 7E		Abandoned during 1962			Douglas	1,568
Estes ('28)	32- 6E	180	66,454		3	Douglas	1,568
Geuda Springs ('25)	17-34- 3E	80	39,050		1	"Bartlesville"	
Gibson ('41)	34- 3E	420	439,659		5	"Bartlesville"	3,300
Graham ('24)	9-33- 3E	600	297,848		14	"Bartlesville"	
Mansur ('49)	31- 7E		Included with Miscellaneous			"Layton"	2,170
Rainbow Bend ('23)	17-33- 3E		Included with Miscellaneous			"Layton"	2,114
School Creek North ('53)	10-32- 7E		Included with Miscellaneous			"Cleveland"	2,443
Thurlow ('27)	6-33- 4E		no report				
Tisdale Gas Area	32- 5E	40	43,887		1		
Walnut Bend ('40)	11-34- 4E	80	436,565		2	Mississippian	1,740
Whitacre ('62)	5-34- 4E		no report	none		Ireland	
Miscellaneous		2,000	1,445,400+		25+		
Total Cowley County		3,400	2,768,863+		51+		

CRAWFORD COUNTY

St. Paul-Walnut (Misc.)	29-21E	460	25,000+		10+	"Bartlesville"	
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EDWARDS COUNTY

Belpre ('42)	8-25-16W		no report	8,338,711		Lans.-K. C.	3,800
Bradbridge* ('48)	6-24-15W		no report			Mississippian	4,278
Bradbridge Southwest ('59)	11-24-16W		Abandoned during 1962			Lans.-K. C.	3,686
Edstaff ('55)	12-25-16W		no report			Arbuckle	4,020
Embry ('55)	23-24-16W	1,900	1,522,483	8,872,231	24	Arbuckle	4,120
Fatzer ('59)	14-26-17W	80	103,912	270,819		Penn. congl.	4,202
Fellsburg ('60)	35-25-17W	40	57,680	83,681	2	Mississippian	4,231
Groner ('62)	5-23-20W		Abandoned during 1962		1	"Kinderhook"	4,292
Kirk ('55)	26-26-16W	40	17,719	105,542	1	Mississippian	4,490
McCarty ('54)	31-25-17W		(part of Will)a			Mississippian	4,525
McCarty Northeast ('30)	22-25-17W		no report	312,798		Cherokee	4,392
McClanahan ('58)	2-26-18W	100	no report			"Kinderhook"	4,528
Trousdale North ('58)	8-26-16W	240	66,093	168,265	1	Penn. congl.	4,452
			4,112	118,401	3	Penn. congl.	4,612
			(part of Will)a			Mississippian	4,458

TABLE XI—Gas production in Kansas during 1962, continued

Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**		No. wells	Producing zone		Depth, ft.
			During 1962	To end of 1962		Name		
Trousdale Northeast ('58)	15-26-16N		no report	none		"Kinderhook"		4,392
Trousdale South ('56)	33-26-16W		no report	47,864		Cherokee		4,472
Will* ('57)	26-25-16W	10,000	279,443	1,766,702	7	"Kinderhook"		4,525
			981,365 ^a					
Wokaty	25-25-17W		no report	79,504	87	"Kinderhook"		4,324
Total Edwards County		12,400	3,032,807	21,220,296	126	Penn. congl.		4,390
ELK COUNTY								
Cummings ('60)	26-31- 9E	200	16,008	16,008	4	Mississippian		2,226
Hale-Inge	32-12E	80	23,748		2	"Peru"		1,160
Longton ('02)	31-12E	Includes Chautauqua County				Kansas City		660
Schrader ('28)	31- 8E	Included with Miscellaneous				Kansas City		
Miscellaneous		500+	85,000+		10+			
Total Elk County		780+	124,756+		16+			
ELLIS COUNTY								
Younger Northwest ('62)	30-13-17W		no report	none		Lansing		3,375
ELLSWORTH COUNTY								
Satran ('60)	5-14- 9W		no report	none		Herrington		1,276
Stoltenberg ('47)	18-17- 9W	80	52,207	607,094	1	Shawnee		2,728
FINNEY COUNTY								
Hugoton Gas Area* ('32)	16-25-34W	421,760	59,196,495	543,263,823	659	Chase Group		2,200
Nunn ('38)	27-21-34W		no report	146,075				
Total Finney County		421,760	59,196,495	543,409,898	659			
FORD COUNTY								
Conrardy ('61)	22-26-24W		Abandoned during 1962			Cherokee		4,990
Pleasant Valley ('38)	34-27-21W	1,000	270,590		3	Mississippian		4,954
GRAHAM COUNTY								
Law ('51)	34- 9-23W		no report	12,656				
GRANT COUNTY								
Hugoton Gas Area* ('30)	12-29-38W	375,040	113,341,758	1,327,659,486	586	Chase Group		2,200

Panama Gas Area* ('56) ^a	35-31-34W	15,000	1,234,200+	Includes Stanton County no report	none	25	Council Grove	2,710
Ryus Townsite ('62)	25-29-35W	390,040	114,575,958			611	Council Grove	2,845
Total Grant County								
GREENWOOD COUNTY								
Lane ('58)	5-26-12E	40	9,746		35,750	1	Mississippian	
HAMILTON COUNTY								
Bradshaw Gas Area ('57)	36-22-41W		no report		none		Chase Group	2,546
Hugoton Gas Area* ('46)	12-26-39W	23,700	1,243,057		45,149,161	37	Chase Group	2,200
Panama Gas Area* ('56)	35-31-34W		Included with Kearny County				Council Grove	2,710
HARPER COUNTY								
Crystal Springs ('59) ^a	18-32-7W	100	83,691		125,782	1	Mississippian	4,420
Grant ('57)	21-31-7W	400	166,579		217,955	4	Mississippian	4,343
Harper ('58)	11-32-7W	100	23,481		1,205,849	1	Viola-Simpson	4,714
Hibbard ('57)	23-34-9W	100	37,261		222,521	1	Mississippian	4,586
Runnymede ('53)	23-31-6W		no report		none		Simpson	4,648
Sharon* ('55)	13-32-10W	1,300	1,256,822		3,044,527	14	Mississippian	4,355
Spivey-Grabs-Basil* ('49)	13-31-9W	3,900	880,515+		21,256,381	22+	Mississippian	4,400
Total Harper County		5,900	3,026,182+		29,099,197	37	Mississippian	
			5,474,531+			80+		
HARVEY COUNTY								
Alta Mills	22-2W		Included with Miscellaneous					
Burrtown* ('30)	23-23-4W	2,500	861,097			32	Mississippian	3,298
Burrtown North ('56)	32-22-3W		Includes Reno County				Mississippian	3,280
Burrtown Northeast ('42)	3-23-3W		Included with Burrtown				Mississippian	3,226
Graber* ('55)	22-1W		Included with Burrtown		141,997		Mississippian	2,958
Sperling ('35)	23-22-2W		no report		7,513,363		"Chat"	2,955
Sperling South ('57)	22-2W	300	Included with Sperling South		165,131	3	Mississippian	2,954
			77,326					
			"Sperling" a			1+		
Miscellaneous		40	25,000+			36+		
Total Harvey County		2,840	963,423+		11,766,041			
HASKELL COUNTY								
Eubank ('58) ^a	28-28-34W	17,000	2,488,972		6,877,020	38	Toronto	4,084
							Lans.-K.C.	4,699
							Marmaton	
							Cherokee	
							Morrowan	
Hugoton Gas Area* ('31)	29-30-34W	287,360	36,499,093		474,284,995	449	Mississippian	2,200
Koenig ('58)	12-29-34W		Included with Eubank		594,936		Chase Group	5,094
							Morrowan	

TABLE 3.5—Gas production in Kansas during 1982, continued

Pool or field name and year of discovery	Location of discovery well	Gas production, M cu. ft. **			Name	Depth, ft.
		Area, acres	During 1962	To end of 1962		
Lemon ('61)	22-30-33W	3,000	374,238	374,238	Morrowan	5,349
Lemon North ('61)	33-29-33W		Combined with Lemon Northwest		Marmaton	4,885
Lemon Northwest ('61)	17-30-33W		Included with Lemon		Morrowan	5,309
Pleasant Prairie ('54)	16-27-34W		no report	none	Cherokee	4,990
Total Haskell County		307,360	39,362,303	482,131,189	Morrowan	5,270
			JOHNSON COUNTY		Council Grove	2,814
Miscellaneous		400	100,000+			
			KEARNY COUNTY			
Campbell ('62)	9-21-35W		no report	none	Marmaton	4,408
Hugoton Gas Area* ('37)	32-25-35W	406,400	68,534,580	934,108,186	Chase Group	2,200
Panoma Gas Area* ('56) ^a	12-31-38W	1,200	88,426+		Council Grove	2,843
Total Kearny County		407,600	68,623,006+			
			KINGMAN COUNTY			
Bartholomew ('46)	1-28-5W		Included with Miscellaneous			
Broadway ('48)	21-28-5W	1,200	490,052	3,983,320	Mississippian	3,833
Broadway West ('54)	19-28-5W		Included with Broadway	1,109,381	Mississippian	3,884
Casley ('52)	2-28-5W		Included with Miscellaneous			
Cunningham* ('31)	7-28-11W		no report		Permian	1,993
					Wabaunsee	2,969
Dale ('59)	35-28-6W	100	63,200	128,752	Viola	4,278
Dewey ('50)	9-28-5W		Included with Broadway	3,871,978	Arbuckle	4,094
			no report		Mississippian	3,928
Dresden ('51)	13-27-10W		no report	3,870	Mississippian	3,801
Freemeyer ('60)	20-27-6W		no report	none	Mississippian	3,822
Gilchrist ('55)	15-30-7W		Combined with Spivey-Grabs-Basil		Mississippian	4,084
Goetz ('56)	29-29-9W		no report	981,236	Mississippian	4,156
					Viola	4,408
Hurn ('60)	28-27-5W	80	32,820	176,073	Mississippian	3,777
Klaver ('60)	9-29-6W	80	49,810	130,261	Mississippian	4,074
Lansdowne North ('50)	28-5W		Included with Miscellaneous		Mississippian	2,908
Negro Creek ('61)	13-28-7W	160	171,379	171,379	Toronto	3,990
Prather ('62)	18-28-7W		no report	none	Mississippian	4,110
Prather ('54)	18-28-7W	600	384,792	720,678	Mississippian	4,110

Spivey-Grabs-Basil ('49)	13-31-9W	16,500	4,500,000 ^a 15,215,000 ^a 4,928,688 682,839 200,000 26,718,560 ⁺	101,210,993 "Basil"	53 6 7 ⁺ 529 ⁺	Lans.-K.C. Mississippi	3,876 4,205
Miscellaneous							
Total Kingman County							
KIOWA COUNTY							
Alford ('44)	14-30-19W	no report	no report	none		Spergen	5,040
Einzel ('62)	36-27-19W	no report	no report	none		Mississippi	4,796
Fralick West ('61)	16-27-20W	no report	no report	none		Mississippi	4,868
Fruit ('60)	28-27-16W	400	27,164	27,164		Mississippi	4,621
Glick* ('57) ^a	31-30-16W	9,000	7,286,994	14,516,987	3	Mississippi	4,880
Greensburg ('56)	35-27-18W	no report	no report	3,384	19	"Kinderhook"	4,742
Greensburg Northeast ('56)	17-27-17W	no report	no report	104,239		Mississippi	4,675
Hardy ('56)	23-28-18W	160	68,483	392,996	2	Mississippi	4,804
Haviland ('55)	17-28-16W	160	40,389	328,490	2	"Kinderhook"	4,761
Johannsen ('54)	13-28-19W	no report	no report	46,214		Mississippi	4,864
Joy Station ('57)	20-28-19W	no report	no report	77,077		Mississippi	4,920
Kane ('56)	12-30-18W	no report	no report	none		Mississippi	4,908
Nichols ('55) ^a	20-29-18W	5,300	1,199,865 1,829,343 ^a	15,207,804	21	Mississippi	4,997
Nichols South ('59)	8-30-18W	no report	no report	none	8	Mississippi	4,994
Quaker ('61)	10-27-19W	40	10,000 ⁺	10,000 ⁺	1 ⁺	Mississippi	4,804
Ursula ('61)	9-29-18W	no report	no report	none		Mississippi	4,922
Wellsford ('55)	15-28-16W	200	100,551	1,462,605	1	Marmaton	4,680
Total Kiowa County							
		15,260	10,562,789 ⁺	34,086,824	57 ⁺	Mississippi	4,729
LABETTE COUNTY							
Coffeyville-Cherryvale* ('02)	32-17E	Included with Miscellaneous			40 ⁺		
Miscellaneous		1,600	65,000 ⁺				
LEAVENWORTH COUNTY							
Roberts-Maywood* ('30)	11-22E	Included with Miscellaneous			10 ⁺	Knobtown	400
Miscellaneous		400	125,000				
LINN COUNTY							
LaCygne-Cadmus	20-24E	Included with Miscellaneous			10 ⁺	Knobtown	400
Miscellaneous		400	50,000 ⁺				
MCPHERSON COUNTY							
Coons ('40)	13-19- 1W	no report	no report			"Chat"	2,897
Elyria ('58)	22-20- 3W	65	9,386	139,787	1	Mississippi	3,068
Graber North ('51)	4-21- 1W	no report	no report	none		Mississippi	2,955
McPherson ('26)	29-18- 2W	180	44,044		2	Lans.-K.C. "Chat" Viola	2,340 2,967 3,140

Table 35—Gas production in Kansas during 1962, continued

Pool or field name and year of discovery	Location of discovery well	Gas production, M cu. ft. **			Producing zone	
		Area, acres	During 1962	To end of 1962	Name	Depth, ft.
Ritz-Canton ('29)	12-20-2W	900	171,773		"Chat"	2,935
Voshell ('29)	33-20-3W		no report			
Total McPherson County		975	225,203			10
MARION COUNTY						
Dobbs ('60)	22-19-3E		Combined with Lost Springs		Mississippian	2,367
French Creek ('55)	22-19-2E	40	92,256	179,434	Simpson	
Hillsboro ('58)	7-19-3E		no report	3,461	Mississippian	
Lehigh ('46)	27-19-1E	200	35,587		Mississippian	2,770
Lehigh North ('53)	23-19-1E		no report		Mississippian	2,770
Lost Springs ('26)	22-17-4E	13,000	4,990,887	"Antelope East" a	Mississippian	2,350
			2,181,225	"Dobbs"		
			342,451	15,467		
Ratzlaff ('60)	8-19-2E	40	3,512	none	Mississippian	2,691
Stenzel ('61)	12-20-3E		no report		Mississippian	2,340
Total Marion County		13,280	7,635,918			215
MEADE COUNTY						
Adams Ranch ('45)	8-35-30W	5,600	1,503,476	7,642,671	Toronto	4,402
					Morrowan	5,708
Angell ('56)	30-32-29W	200	219,448	890,967	Mississippian	5,850
Barragsee ('59) a	25-34-28W	160	256,103	256,103	Morrowan	5,608
Bond ('54)	32-33-30W	360	44,422	705,539	Council Grove	3,066
Borchers ('59)	21-33-28W	2,500	3,307,159	3,307,159	Mississippian	5,860
Borchers North ('59)	5-33-28W			5,380,490	Morrowan	5,719
					Marmaton	5,082
					Morrowan	5,544
					Mississippian	5,484
Borchers Northwest ('59)	1-33-29W		Included with Borchers	428,661	Morrowan	5,612
Bruno Northeast ('53)	16-33-30W		Included with Borchers		Morrowan	5,721
Cimarron Bend ('59)	1-35-29W	550	no report	none	Mississippian	6,076
Fincham ('56) a	14-35-27W	600	614,313	1,281,874	Mississippian	6,275
Hockett ('57)	8-31-29W	900	517,539	1,846,619	Morrowan	5,390
			162,083	863,533	Mississippian	5,430
Horace ('56)	9-34-29W	1,000	336,789	355,057	Morrowan	5,815
Horace South ('59)	26-34-29W			262,211	Council Grove	3,228
					Toronto	4,390
Kismet* ('48)	23-33-31W	8,900	Included with Horace		Morrowan	5,645
McKinney* ('50)	2-34-26W	13,700	1,747,009	3,794,751		
			Includes Seward County		Mississippian	5,762
			5,231,071	41,680,029		

Location	Period	Area	Acres	Value	County
Mohler Northeast ('58) ^a	36-33-29W	Included with Singley	800	330,511	2,082,095
Novinger East ('59)	36-33-30W	Included with Novinger Northwest	360	47,696	820,952
Novinger Northwest ('53)	15-33-30W	Includes Novinger	200	62,075	492,826
Plains ('56)	17-32-30W				
Sanders ('56)	13-32-29W		200	48,984	530,166
Singley ('55)	20-33-29W		4,000	959,131	8,487,410
Stevens ('52)	32-32-30W		3,000	184,106	"Collingwood" ^a
Stevens West ('57)	6-33-30W	no report		985,572	14,888,669
Total Meade County		16,557,487		98,711,046	174
MIAMI COUNTY					
Louisburg ('27)	17-25E	no report	400	20,000+	10+
Miscellaneous					
MONTGOMERY COUNTY					
Coffeyville-Cherryvale* ('02)	33-17E	Included with Miscellaneous	2,000	350,000+	50+
Miscellaneous					"Bartlesville"
MORRIS COUNTY					
Veal ('55)	30-17- 7E		360	335,586	10 Ireland
Miscellaneous			80	20,000+	2+
Total Morris County			440	355,586+	12+
MORTON COUNTY					
Berryman ('59)	21-33-41W		600	60,160	2 Chase
Boehm ('51)	14-33-42W		1,800	489,733	Wabaunsee
Elkhart ('55)	11-35-43W		2,000	704,267	"Purdy"
Elkhart West ('57)	17-35-43W				Morrowan
Greenwood Gas Area ('51) ^a	14-33-42W	Included with Elkhart	214,000	31,277,324	4,872
Hugoton Gas Area* ('30)	24-34-40W		203,000	33,687,969	4,558
Interstate ('54)	29-34-43W		12,000	2,164,518	4,299
Kinsler ('59)	33-31-40W		2,000	38,886 ^a	2,777
"Kinsler East" ('62) ^a			4,000	757,072 ^a	3,069
				2,239,507	3,534
					Lans.-K.C.
					Chase Group
					"Red Cove"
					Morrowan
					Marmaton
					Morrowan
					St. Louis
					Morrowan

TABLE 35.—Gas production in Kansas during 1962, continued

Pool or field name and year of discovery	Location of discovery	Gas production, M cu. ft.**		No. wells	Producing zone	
		Area, acres	During 1962		Name	Depth, ft.
Kinsler Southeast ('60)	12-32-40W		Included with "Kinsler West" and "East"		Morrowan	5,504
"Kinsler West" ('62)a		2,000	1,508,949	5	Morrowan	
Panama Gas Area* ('56)	12-31-38W		Included with Stevens County		Council Grove	2,843
Patsy ('57)	16-31-41W	2,000	871,273	10	Morrowan	5,362
Reyer ('57)	17-32-43W		no report		Marmaton	3,993
Richfield ('48)a	17-32-40W	6,000	1,033,182	10	Topeka	4,990
Richfield West ('61)	2-32-42W	2,000	700,429	8	Atokan-Morrowan	5,040
Rolla ('59)	22-34-40W	640	7,683	1	Morrowan "G"	4,974
Sparks* ('54)a	34-30-42W	6,000	3,142,079	9	"Keyes"	5,051
Taloga ('55)	34-34-42W	3,000	535,527	13	Lansing	4,249
"C" a			399,406a		Wabaunsee	2,853
"G" a			126,913a		"Keyes"	5,254
Taloga Northeast ('57)	19-34-41W		672,313a	2	Cherokee	3,894
"Keyes" a			no report	1	Morrowan	4,428
Wilburton ('59)	32-34-41W	1,800	154,929	5	Cherokee	4,397
Wilburton South ('61)	17-35-41W		no report		Morrowan	4,694
Total Morton County		462,840	80,572,119	3	Topeka	3,080
			596,444		Morrowan	4,808
			850,981,784	698	Topeka	3,184
NEOSHO COUNTY						
Humboldt-Chanute Miscellaneous		500	Included with Miscellaneous	19+		
			121,020+			
PAWNEE COUNTY						
Benson ('45)	30-23-15W	800	1,005,826	9	Arbuckle	4,048
Bow ('58)	32-22-15W	100	23,675	1	Arbuckle	
Carpenter Southeast* ('59)	31-23-16W	100	66,305	1	Mississippian	4,210
Evers ('51)	32-21-16W		no report		Arbuckle	3,908
Evers South ('56)	12-22-16W		no report		Arbuckle	3,920
Garfield ('54)	35-22-17W	300	287,485	3	Penn. congl.	4,152
Hearn ('53)	35-23-15W	40	130,982	1	Lans.-K.C.	3,833
			Abandoned during 1962		Simpson	4,106
Hearn North ('55)	23-23-15W		no report		Simpson	4,084
Jac ('58)	30-21-15W		no report		Arbuckle	3,871
Larned ('49)	28-21-16W		no report		Arbuckle	3,877
Pawnee Rock* ('36)	19 & 20-15 & 16W		no report		Arbuckle	3,832
Ryan* ('45)	35-19-16W		no report		Reagan	3,507
Ryan Southeast ('45)	12-20-16W		no report		Arbuckle	

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Shady North ('55)	14-22-16W	Included with Shady	Arbuckle	4,063
Shady Southwest ('53)	3-23-16W	Included with Shady	Arbuckle	4,043
Snowberger ('57)	29-22-16W	no report	Arbuckle	4,094
Sweeney ('53)	8-21-15W	1,500	Penn. congl.	4,112
			Penn. congl.	3,727
Zook ('42)	16-23-16W	no report	Arbuckle	3,792
			Simpson	4,028
			Arbuckle	4,066
Total Pawnee County		3,440		29
				48,168,359
PRATT COUNTY				
Brehm ('61)	28-13W	no report	Lans.-K.C.	3,848
Carver-Robbins ('55)	21-27-15W	1,300	Penn. congl.	4,472
			Mississippian	4,509
Carver-Robbins Northeast ('56)	10-27-15W	Combined with Carver-Robbins		
Chance ('46)	4-27-13W	no report	Penn. congl.	
			Mississippian	
Chitwood ('43)	23-28-12W	no report	Viola	4,340
Cullison ('56)	25-28-15W	no report	Viola	4,543
Cullison West ('61)	12-28-15W	no report	Cherokee	
Cunningham* ('31)	7-28-11W	no report	Permian	1,993
			Wabaunsee	2,969
			Lans.-K.C.	
			Viola	4,278
			Arbuckle	4,094
Frisbie Northeast ('54)	4-26-13W	no report	Mississippian	
Gereke North ('61)	1-26-15W	100	Lans.-K.C.	3,798
Hopewell ('58)	17-26-15W	100	Lans.-K.C.	3,887
Iuka-Carmi ('42)	29-26-12W	1,900	Council Grove	2,388
			Viola	4,122
Jem ('61)	28-29-13W	no report	Viola	4,478
Sawyer ('57)	26-29-13W	400	Viola	4,376
			Simpson	4,608
Shriver ('49)	27-29-14W	no report	Congl. sand	4,376
Tatlock Southwest ('58)	30-26-15W	300	"Kinderhook"	
			Viola	4,129
Ward ('41)	11-26-12W	no report		
Total Pratt County		4,100		35
				27,927,105
RENO COUNTY				
Burrton* ('30)	23-23-4W	Included with Harvey County	Mississippian	3,298
Friendship ('62) (revived)	19-25-4W	300	Mississippian	
Hilger	22-25-4W	100		
Huntsville ('62)	20-23-9W	no report	Mississippian	3,658
Huntsville Townsite ('62)	8-23-9W	no report	Mississippian	3,573
Lerado ('37)	10-26-9W	2,700	Mississippian	3,925
			Viola	4,128
Plevna ('59)	15-24-9W	no report	Mississippian	3,765
Yoder ('35)	34-24-5W	no report	"Chat"	3,402

Table 35.—Gas production in Kansas during 1962, continued

Pool or field name and year of discovery	Location of discovery well	Gas production, M cu. ft.**			No. wells	Producing zone	
		Area, acres	During 1962	To end of 1962		Name	Depth, ft.
Zenith-Peace Creek* ('37) Total Reno County	23-24-11W	3,100	no report 2,838,357	21,665,213	46	Viola	3,860
RICE COUNTY							
Bredfelt ('48)	7-18- 9W		no report	165,890		Arbuckle	3,226
Calf Creek ('57)	33-18-10W		no report	84,826		Lans.-K.C.	3,006
Chase-Silica* ('36)	6-19- 9W	180	58,168	2,155,322	3	Arbuckle	3,192
		Includes Barton County					
Dymond ('61)	13-21- 8W		no report	none		Mississippian	3,362
Faler West ('62)	3-21- 9W		no report	none		Lans.-K.C.	2,928
Humphreys ('56)	3-21- 8W	160	50,950	718,483	3	Penn. congl.	3,272
						Mississippian	3,278
Lyons Southwest ('55)	22-20- 8W	200	184,754		5	Penn. congl.	3,251
						Simpson	3,280
						Arbuckle	3,300
McClintock ('62)	18-21- 8W		no report	none		Meizner	3,280
Munyon ('50)	34-18-10W	46	12,933		1	Arbuckle	
Orth ('33)	27-18-10W		no report			Lans.-K.C.	2,906
Sterling ('51)	4-22- 8W	40	2,098	175,890	1	Mississippian	3,385
Union ('50)	28-20- 8W		Included with Lyons Southwest		1	Penn. congl.	3,275
Pools or fields abandoned	27-20- 8W	40	5,000+	29,794,228			
Total Rice County		660	313,903	36,648,396	14		
RUSH COUNTY							
Basgall West ('62)	6-16-17W		no report	none		Lans.-K.C.	3,205
Otis-Albert* ('30)	11-18-16W	550	138,782		3	Neva	
Reichel Gas Area ('53)	23-17-17W	1,200	1,486,459	9,261,227	22	Topeka	3,006
						Lans.-K.C.	3,480
						Granite Wash	3,578
						Reagan	3,507
						Arbuckle	3,648
Ryan* ('45)	35-19-16W		no report				
Ryan East ('54)	36-19-16W		no report				
Total Rush County		1,750	1,625,241	9,261,227	25		
RUSSELL COUNTY							
Beisel ('58)	15-14-12W		no report				
Driscoll ('56)	19-15-11W	60	20,058	21,237	1	Lans.-K.C.	3,059
Dubuque ('35)	34-15-12W		30,000+		3+		
Gorham ('36)	20-14-14W	60	25,167		1		
Hall-Gurney ('31)	30-14-13W	600	210,722		12		
Heim Northeast ('57)	14-14-12W	60	10,927	29,865	1	Fort Riley	1,530
Janne ('54)	24-15-12W		Combined with Driscoll			Toronto	2,900

Mahoney ('60) Russell ('46) Trapp ('36) Total Russell County	8-14-12W 34-13-14W 9-15-13W	60 40 80 360	40,734 41,389 13,384 392,381		1 2 22	Tarkio Wabaunsee	2,368
SCOTT COUNTY							
Hugoton North ('61) Keystone ('50)	25-19-33W 25-18-32W		no report no report	none 45,122		Chase Group Chase Group	2,600
SEDCWICK COUNTY							
Bartholomew ('46)	30-27-4W		Included with Kingman County			Kansas City "Miss. lime"	3,270
Gladys South ('56) Schulte ('49) Total Sedgwick County	5-29-1E 7-28-1W		no report no report	74,499 1,287,655 1,362,154		Mississippian Mississippian Mississippian	3,732 3,194 3,349
SEWARD COUNTY							
Adamson ('58)	11-34-34W	1,500	184,918	648,426	3	Chesteran Chesteran sand	6,064 6,318
Arkalon ('60) ^a	36-33-32W	600	82,053	245,656	1	Chesteran	5,710
Arkalon East ('60)	20-33-31W	1,000	59,494	112,207	2	Chesteran	5,750
Blue Bell ('53)	33-34-31W		no report	none		Mississippian	5,959
Blue Bell Northwest ('54)	20-34-31W		no report	none		Morrowan Mississippian (Chesteran)	5,858 5,947
Condit ('62) Evalyn ('60) ^a	8-34-32W 15-33-33W	2,500	no report 646,427	none 1,153,040	7	Morrowan Morrowan Mississippian	5,772 5,636 6,038
Hawks ('52) Holt ('54) Hugoton Gas Area* ('22) Iris ('62) Kismet* ('48)	18-35-31W 28-32-34W 3-35-34W 11-34-31W 23-33-31W	200 234,880	no report 98,084 37,113,386 no report	none 3,175,698 330,312,876 337,019	3 367	Topeka Chase Group Council Grove Council Grove Toronto Toronto Lans.-K.C. Morrowan	5,927 3,820 2,200 2,976 3,063 4,294 4,864 5,645
Included with Meade County Combined with Kismet							
Kismet Northwest ('53) Kneeland ('51) Liberal East ('62)	10-33-31W 14-34-31W 3-35-33W		no report no report no report	none none		Morrowan Mississippian Morrowan	5,584 5,722 5,870
Liberal-Light ('51) Liberal Southeast ('47) Massoni ('55)	11-35-32W 15-35-33W 5-33-31W	2,800 1,000 1,000	858,548 1,296,138 328,717	29,180,973 24,714,767 2,191,264	14 5 6	Chesteran Morrowan Penn. ss. Council Grove Toronto Morrowan	5,906 6,202 3,156 4,270 5,590
Plains West ('56) Sallee ('58) Shuck ('55) Thirty-One ('53)	16-32-31W 16-34-33W 20-33-34W 18-31-31W		no report 71,448 58,241 134,186	151,201 140,415** 881,302 1,415,609		Morrowan Toronto Morrowan Morrowan	5,600 4,311 5,987 5,448

Table 35.—Gas production in Kansas during 1962, continued

TABLE 32.—GAS PRODUCTION IN ABANDONED POOLS, CONTINUED									
Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**		No. wells	Name	Producing zone	Depth, ft.	
			During 1962	To end of 1962					
STAFFORD COUNTY									
Thirty-Three ('60)	33-33-33W		no report	none		Chesteran		5,898	
Thirty-Two ('60)	1-32-32W	400	33,808	58,488	1	Morrowan		5,499	
Three Star ('58)	17-35-32W	2,600	306,780	1,245,375	9	Lans.-K.C. Morrowan		4,546 5,866	
Wide Awake ('54)	4-35-34W	300	68,293	2,268,314	2	Chesteran Toronto		6,089 4,410	
Total Seward County		249,580	41,340,521	398,163,673**	422	Mississippian		6,168	
STAFFORD COUNTY									
Bradbridge* ('48)	6-24-15W		no report	none		Arbuckle		4,020	
Childs ('59)	17-25-15W			84,892		Mississippian		4,231	
Dillwin West ('60)	18-24-14W	300	Included with Haynes 286,220	639,996	3	Penn. congl. Mississippian		4,118 4,097	
Farmington ('48)	27-24-15W	600	384,422	439,031	7	Mississippian "Kinderhook"		4,207 4,120	
Farmington North ('56)	23-24-15W		Included with Farmington	15,366		"Kinderhook"		4,272	
Farmington Northwest ('56)	30-24-15W		Included with Farmington			"Penn. sand"		4,164	
Farmington West ('52)	6-25-15W		Included with Farmington	806,715	1	Lans.-K.C.		3,473	
Gates ('50)	26-21-13W	200	196,013	106,030		Mississippian		4,173	
Grunder ('58)	11-25-15W	600	no report	1,340,022	7	Cherokee		4,254	
Haynes ('59)	27-25-15W		691,279			Lansing		3,915	
Macksville ('60)	3-24-15W	600	1,036,991	1,097,380	11	Viola Arbuckle		4,020 4,110	
O'Connor ('47)	16-24-15W		Included with Macksville 385,660	19,020		Arbuckle		4,061	
Rattlesnake ('38)	13-24-14W	400	Included with Rattlesnake	426,835	7	Lans.-K.C. Mississippian		3,880 3,908	
Rattlesnake East ('56)	7-24-13W		Included with Rattlesnake			Mississippian			
Rattlesnake Southeast ('54)	28-24-13W		Included with Rattlesnake						
St. John Northwest	16-24-13W	60	25,875	25,875	1				
Seevers ('54)	6-25-13W	400	177,224	177,224	11				
Van Lieu ('43)	20-24-13W	60	107,902	802,868	1	Arbuckle		4,069	
Will* ('57)	26-25-16W	200	231,590	468,219	4	"Kinderhook"		4,324	
Zenith-Peace Creek* ('37)	23-24-11W		no report	10,968,337		Viola		3,860	
Pools or fields abandoned									
Total Stafford County		3,420	3,523,176	20,816,236	53				
STANTON COUNTY									
Beauchamp East ('59)	24-30-41W		no report	none		Morrowan		5,018	
Hugoton Gas Area* ('44)	32-30-39W	131,680	no report 19,292,159	211,693,016	237	Chase Group		2,200	

Nich ('61)^a
Panama Gas Area* ('56)
Sand Arroyo ('61)
Sparks* ('54)^a
Sparks East ('57)

Sparks West ('58)
Total Stanton County

15-30-39W	360	220,211	220,211	3	Morrowan	5,630
12-31-38W		Included with Grant County	none		Council Grove	2,843
17-29-39W		no report			Morrowan	5,476
34-30-42W	3,000	2,100,665	26,484,465	12	Morrowan	5,254
29-30-41W			318,422		Morrowan	5,152
26-30-43W		Included with Sparks				
		Included with Sparks			Morrowan sand	5,260
	<u>155,040</u>	<u>21,613,035</u>	<u>238,397,692</u>	<u>252</u>		

STEVENS COUNTY

Center ('60)
Cutter ('61)

Grigsby ('62)
Hanke ('56)
Hugoton Gas Area* ('27)
Kel ('62)
Panama Gas Area* ('56)

Perrill ('59)

Perrill West ('61)
Ski ('61)
Walkemeyer ('59)
Total Stevens County

26-33-37W	300	no report	none	3	Morrowan	5,800
1-31-35W		156,232	321,537		Marmaton	4,779
4-31-36W	100	67,555	67,555	1	Morrowan	5,313
6-35-36W		no report	none		Morrowan	5,360
31-33-37W	494,720	149,161,106	2,173,063,641	773	Chase Group	6,267
15-34-38W		no report	none		Council Grove	2,200
12-31-38W	9,000	1,194,400+	5,116,340+	16	Council Grove	2,965
		Includes Morton County				2,843
7-31-37W	1,800	477,458	2,546,897	3	Morrowan	5,326
		"Panama Gas Area - Morrowan" ^a				
6-31-38W		no report	none		Morrowan	5,655
16-34-35W	100	26,452	26,452	1	Mississippian	6,180
35-33-36W	640	192,025	329,856	1	Morrowan	6,145
	<u>506,660</u>	<u>151,275,228</u>	<u>2,181,571,245**</u>	<u>798</u>		

SUMNER COUNTY

Fall Creek ('50)
Murphy* ('45)

Padgett ('24)

Pride ('58)
Wellington ('29)
Total Sumner County

3-35-3W	2,000	no report		19	Simpson	4,746
35-3E		182,212				
		Includes Cowley County				
23-34-2E	300	138,807		5	"Miss. lime"	3,474
34-31-2E		no report			Marmaton	3,187
33-31-1W		no report			Elmont	1,738
	<u>2,300</u>	<u>321,019</u>		<u>24</u>	"Chat"	3,655

WALLACE COUNTY

Sexson ('56)

19-13-42W		no report	none		Morrowan	5,008
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WILSON COUNTY

Altoona ('03)
Buffalo ('24)
Neodesha*
Miscellaneous
Total Wilson County

29-16E	100	Included with Miscellaneous		1	"Bart"	
30-16E		9,015				
	600	Included with Miscellaneous		40+		
	<u>700</u>	<u>125,000</u>		<u>41+</u>		
		<u>134,015</u>				

Table 35.—Gas production in Kansas during 1962, concluded

TABLE 33.—Gas production in Adams and Garfield 1962, continued						
Pool or field name and year of discovery	Location of discovery well	Gas production, M cu. ft. **		No. wells	Producing zone	
		Area, acres	During 1962		To end of 1962	Name	Depth, ft.
Winterscheid Miscellaneous	3-24-15E	WOODSON COUNTY				
		Included with Miscellaneous				
		100		600+		2+
Roberts-Maywood* ('30)	11-23E	WYANDOTTE COUNTY				
		Included with Leavenworth County				
					"Peru" "Squirrel"	

* Field extends into adjacent county or counties

** All figures at base of 14.65 psia

+ Estimated

a Prorated and or spaced by Conservation Division, Kansas Corporation Commission

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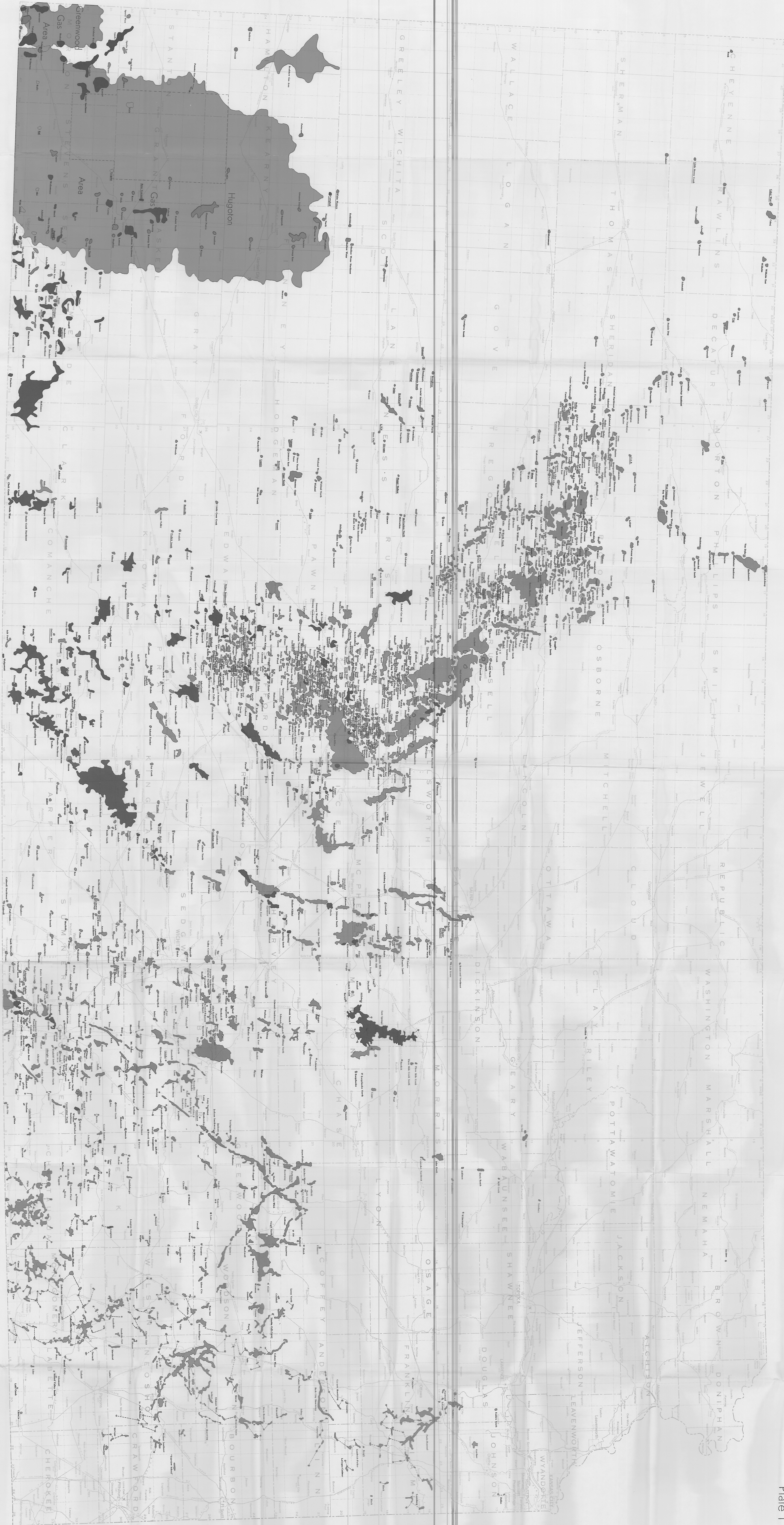
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OIL AND GAS FIELDS OF KANSAS



Oil

Gas

Oil and Gas

Field name

Field discovered in 1962

MAP OF GRANT AND STANTON COUNTIES, KANSAS

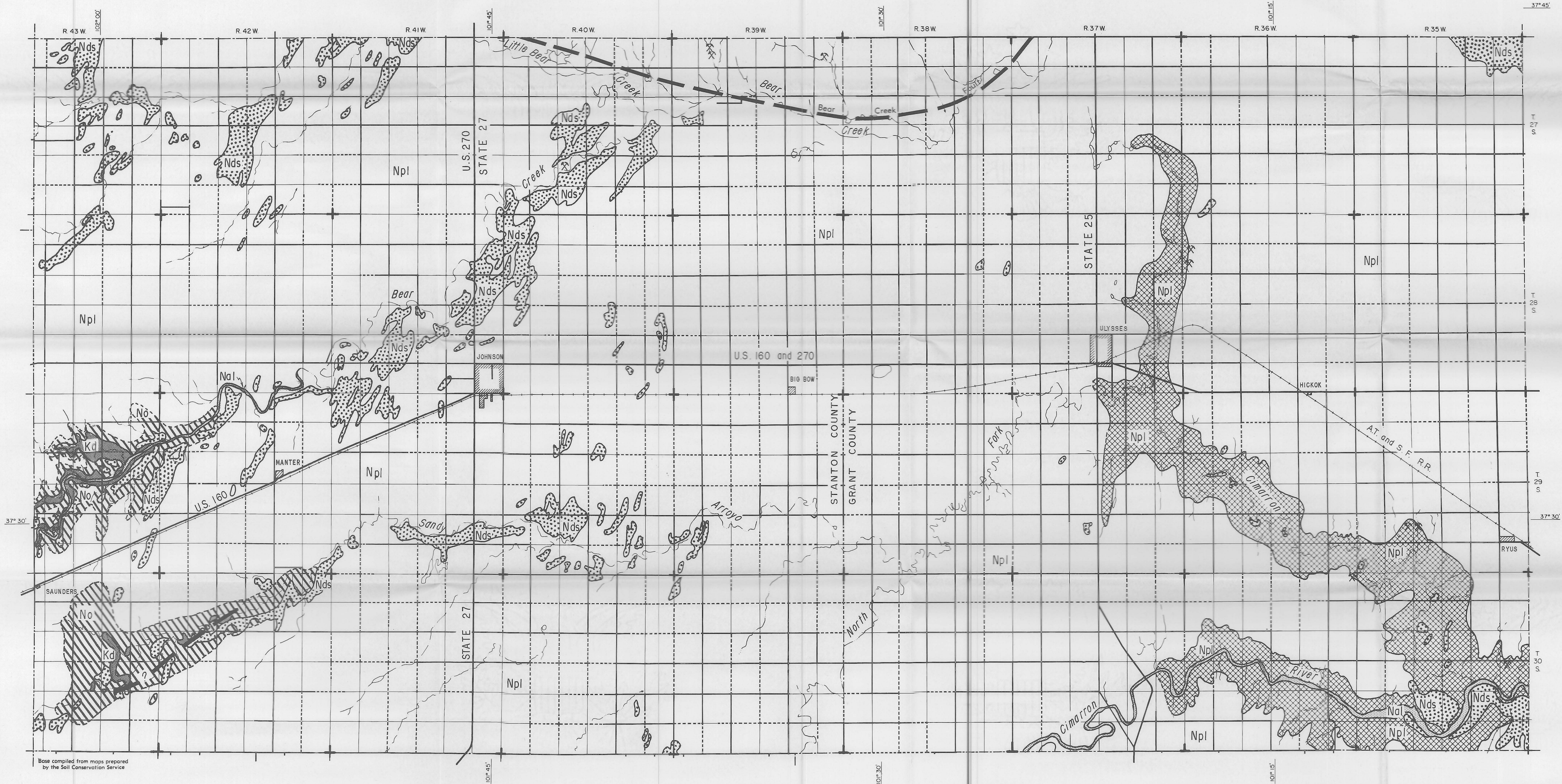
SHOWING THE SURFACE GEOLOGY AND DRAINAGE.
By S. W. Fader, E. D. Gutentag, D. H. Lobmeyer, W. R. Meyer, and W. N. Lockwood

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1964

Bulletin 168
Plate 1



Base compiled from maps prepared by the Soil Conservation Service

EXPLANATION

- | | | |
|------------------|--|--|
| Pleistocene | | Alluvium
Silt, sand, and gravel in channels of major streams. Yields small to moderate water supplies to wells. |
| | | Dune Sand
Fine to medium sand and some silt. Lies above the water table. |
| | | Upper Pleistocene
Silt, clay, sand, and gravel. Most lies above water table but in some areas may yield 750 gpm. |
| | | Lower Pleistocene
Coarse sand and gravel deposits in channel fills. Yields as much as 2,000 gpm to wells. |
| Pliocene | | Ogallala Formation
(Includes some younger deposits locally in western Stanton County)
Silt, clay, sand, and gravel. Yields as much as 1,000 gpm to wells. |
| Lower Cretaceous | | Dakota Formation
Fine- to medium-grained sandstone containing shale. Yields some water for irrigation. |

NEOGENE

CRETACEOUS

Gravel deposits or volcanic ash pit.

Fault.

