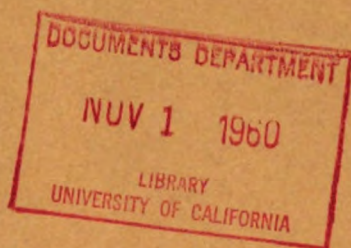


Oil and Gas Developments in Kansas During 1959



By

**E. D. GOEBEL, P. L. HILPMAN, D. L. BEENE,
and R. J. NOEVER**

UNIVERSITY OF KANSAS PUBLICATIONS

STATE GEOLOGICAL SURVEY OF KANSAS

BULLETIN 147

1960

STATE GEOLOGICAL SURVEY OF KANSAS

W. CLARK WESCOE, M.D.

*Chancellor of the University, and ex officio
Director of the Survey*

FRANK C. FOLEY, PH.D.

State Geologist and Director

BULLETIN 147

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*Printed by Authority of the State of Kansas
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UNIVERSITY OF KANSAS PUBLICATIONS
SEPTEMBER 1960

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CONTENTS

	PAGE
Abstract	7
Introduction	8
Important developments in Kansas during 1959	8
Tables	15
Area of production	16
Maps	16
Abandoned and combined fields	16
Well elevations	17
Acknowledgments	17
Exploration	18
New fields	18
Wells drilled during 1959	19
Drilling cost and drilling rigs	19
Geophysics	21
Oil	23
Production and value	23
Oil and Gas Conservation Division	29
Pipeline and refinery construction in Kansas during 1959	29
Secondary recovery	30
Natural gas	33
Production and value	33
New developments	36
The Hugoton Gas Area	37
Helium	39
Gas pipelining	39
Gas storage	41
Natural gas liquids	41
Natural gas liquids pipelining	44
Carbon black	44
Reserves	45
Statistical tables	46
Selected bibliography	240
Index	242

ILLUSTRATIONS

PLATE		PAGE
-------	--	------

1. Eastern Kansas oil producing areas	(In pocket)	6
2. Oil and gas fields of central Kansas	(In pocket)	7
3. Oil and gas fields of western Kansas	(In pocket)	8

FIGURE		PAGE
--------	--	------

1. Index map of Kansas showing oil and gas producing areas		6
2. Map of Kansas showing relative value of 1959 oil and gas production by county		10
3. Annual oil and gas production in Kansas from 1890 to 1959 and year of discovery of oil or gas in different structural provinces		11
4. Distribution of intent-to-drill permits issued by State Corporation Commission, 1959		20
5. Geophysical and core-drill crew weeks recorded in Kansas from 1939 to 1959		22
6. Graph showing number of geophysical and core-drill crews operating in Kansas during 1959		22
7. Distribution by county of geophysical crews active in Kansas in 1959		23
8. Distribution of cumulative oil production by zone		25
9. Monthly comparison of crude oil allocated, pipeline runs to Kansas refineries, and total daily average pipeline runs in Kansas during 1959		27
10. Comparison of crude oil forecast, nominated, allotted, and actual pipeline runs by months in Kansas during 1959		28
11. Distribution of permits issued by State Corporation Commission for secondary recovery projects in Kansas, 1959		31
12. Distribution of cumulative gas production by zone		34

TABLES

TABLE		PAGE
-------	--	------

1. Petroleum data and percentage changes for Kansas and United States, 1958-1959		9
2. Number of intent-to-drill permits issued by State Corporation Commission in Kansas during 1959, by county		21
3. Ten leading oil producing counties in Kansas, 1958 and 1959		24
4. Leading oil producing counties in Kansas based upon reported, estimated, and recorded cumulative production (50 million barrels or more) to the end of 1959		24

TABLE	PAGE
5. Leading oil fields in Kansas, 1958 and 1959	25
6. Kansas refineries and capacity, 1959	26
7. Crude oil price changes in Midcontinent, by years	28
8. Barrels of oil produced, imported, refined, and exported in Kansas, 1958-1959	29
9. Data on nine selected eastern Kansas counties producing oil by secondary recovery in 1959	32
10. Kansas counties producing 3 billion cubic feet of natural gas or more annually, 1958 and 1959	34
11. Counties in Kansas having cumulative production of 20 billion cu. ft. of gas or more to end of 1959 (based on estimated and recorded production)	35
12. Production from Kansas part of Hugoton Gas Area, 1944-1959	37
13. Gas wells drilled in Hugoton Gas Area since 1952, by counties	38
14. County production and cumulative total, Hugoton Gas Area	38
15. Average natural gas analysis from Hugoton Gas Area	39
16. Underground gas storage	40
17. Natural gasoline and LPG processed in 1959	41
18. Production and estimated value of natural gas liquids in Kansas, 1959	42
19. Kansas production of natural gasoline and allied products, 1948-1959	42
20. Natural-gasoline-plant survey	43
21. Underground LPG storage	44
22. Quantity and value of carbon black produced in Kansas in 1958 and 1959	44
23. Kansas proved reserves of natural gas and natural gas liquids, December 31, 1959	45
24. Summary of 1959 operations, by county	47
25. Oil and gas pools discovered in Kansas during 1959	50
26. Fields revived during 1959	58
27. New oil or gas zones in old producing fields, 1959	59
28. Fields abandoned in Kansas during 1959	61
29. Fields combined in Kansas during 1959	62
30. Dry wildcat tests drilled in 1959	64
31. Oil production in Kansas during 1959	108
32. Gas production in Kansas during 1959	230

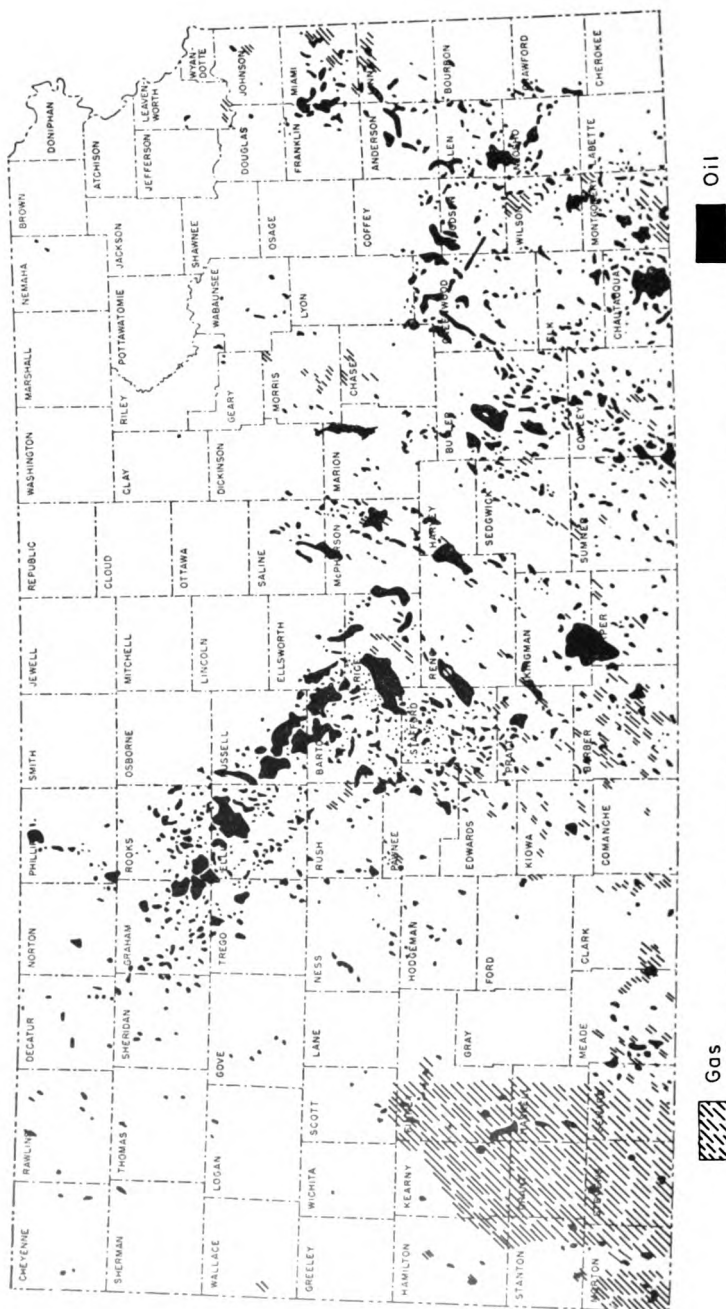


FIG. 1—Index map of Kansas showing oil and gas producing areas.

OIL AND GAS DEVELOPMENTS IN KANSAS DURING 1959

By

E. D. GOEBEL, P. L. HILPMAN, D. L. BEENE, AND R. J. NOEVER

ABSTRACT

Kansas oil production in 1959 totaled 119,473,875 barrels, a decline of 0.4 percent from the previous year. The 1959 output of crude oil decreased in value to \$354,837,409 from \$362,225,124 in the preceding year, because of both decreased production and decrease in average price.

Natural gas production in Kansas totaled 595.2 billion cubic feet (14.65 psia), an increase of 11.1 percent; the Hugoton Gas Area produced 404.8 billion cubic feet, about 68 percent of the total.

During the year, 157 new oil fields, 39 new gas fields, and 2 that were both oil and gas fields were discovered; 8 previously abandoned fields were revived.

In 1959, a total of 4,778 wells was recorded as drilled in Kansas in connection with the petroleum industry. Of the recorded completions, 2,161 were oil wells, 194 were gas wells, 57 were both oil and gas, 1,994 were dry holes, and 372 were salt-water disposal wells or wells used as input wells in secondary recovery operations. Of the 1,994 dry holes, 627 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 6,013.

In 1959, Barton County produced 11,404,683 barrels, and as in 1958 was the leading oil producing county. Ellis and Russell Counties, ranked second and third, produced 11,222,654 barrels and 8,922,064 barrels respectively. The Bemis-Shutts field of Ellis and Rooks Counties was the top-ranking field in the state. The six leading oil fields—Bemis-Shutts, El Dorado, Chase-Silica, Hall-Gurney, Trapp, and Kraft-Prusa—accounted for about 19 percent of the total annual production.

In 1959, Kansas fields produced 232.9 million gallons of natural gas liquids, valued at more than 12.2 million dollars. Proved reserves of natural gas liquids are nearly 197 million barrels.

The proved reserves of Kansas crude oil at the end of the year were 917.5 million barrels, or 0.5 percent less than the previous year's reserves. Proved reserves of natural gas are more than 19.9 trillion cubic feet.

Production from recorded secondary recovery projects in Kansas amounted to 11,798,569 barrels of oil during 1959, but allowance for projects not reporting boosts the total to an estimated 17.9 million barrels. An estimated total of 7,260 oil wells and 3,649 injection wells were active during the year. Butler County, which yielded 4,318,555 barrels, led in the amount of oil produced by secondary recovery methods.

INTRODUCTION

During 1959, production of oil declined from that reported the previous year. Production of natural gas and natural gas liquids increased. The value of the crude oil produced during 1959 was less than that reported in 1958, but prices during the year were steady after a reduction to \$2.97 per barrel early in the year. The value of natural gas was greater than in the previous year. Prices for natural gas liquids averaged near \$2.21 a barrel, considerably higher than the previous year. During the year, 157 new oil fields, 39 new gas fields, and 2 that were both oil and gas were discovered. Figure 1 is a generalized map of Kansas showing geographic distribution of areas producing oil and gas. There was a marked increase in drilling and exploration activities compared with 1958.

Barton County had the most new fields discovered during the year, 18. Other counties in which several new fields were discovered are Ellis, Stafford, Graham, and Sumner.

Reserves of crude oil, natural gas, and natural gas liquids declined during the year.

A condensed petroleum data table (Table 1) compares various phases of the industry in Kansas with those of the United States for 1958 and 1959.

The total value of Kansas raw products of the petroleum industry (crude oil, natural gas, and natural gas liquids) produced in 1959 was more than 432 million dollars, 1.1 million more than the previous year. Figure 2 shows the relative values of 1959 oil and gas production by county. Of the 105 counties in Kansas, 82 reported oil and gas production during 1959. Because the price of crude oil decreases with decreasing gravity, and because different fields produce oils of different gravities, value by county is not proportional to production by county.

Barton County continued to be the leading oil producing county in the state. The Bemis-Shutts field of Ellis and Rooks Counties held the top position in oil production for the third consecutive year.

Annual oil and gas production in Kansas since 1890 is shown graphically in Figure 3. Significant discoveries and developments in Kansas by the petroleum industry are indicated.

Important developments in Kansas during 1959.—Two major exploratory events took place in Kansas during 1959. In north-

TABLE 1.—Petroleum data and percentage changes for Kansas and United States, 1958-1959

	Kansas figures		Change from previous year, percent	
	1958	1959	Kansas	United States
Crude oil production (barrels)				
Value of crude oil produced	119,942,094 ^a	119,473,875 ^a	— 0.4	+ 4.7
Kansas oil production as percentage of U. S. total	\$362,225,124	\$354,837,409	— 2.0	—
Average price of oil	5.1	4.9	— 3.9	—
Rank of Kansas among oil producing states	\$3.02	\$2.97	— 1.6	—
Proved reserves of liquid hydrocarbons (at year end), thousands of barrels	5th	6th	—	+ 4.1
Ratio of proved liquid hydrocarbon reserves to current annual production	1,121,988 ^b	1,114,415 ^b	— 0.7	—
Oil producing area of "western Kansas", acres	89:1	89:1	0	—
Natural gas production, M cu. ft.	791,707 ^c	898,580 ^c	+ 11.1	+ 3.3
Value of natural gas produced	535,937,434 ^d	595,244,836 ^d	+ 11.1	+ 12.8
Value of natural gasoline and LPG	\$58,953,118 ^e	\$65,476,932 ^e	+ 3.4	+ 3.3
Proved reserves of natural gas, millions of cubic feet	225,176,238	\$12,252,202 ^f	— 1.2	+ 3.3
Ratio of proved natural gas reserves to current annual production	\$10,286,537 ^f	19,981,403	— 10.5	—
Gas producing area of "western Kansas", acres	20,233,847	34:1	—	—
New oil and gas pools discovered	38:1	34:1	—	—
Recorded well completions in Kansas	2,969,250	3,032,420	—	—
Oil ^h	157 ^g	198 ^g	—	—
Gas ^h	1,846	2,161	—	—
Oil and gas ^h	227	194	—	—
Dry	58	57	—	—
Salt-water disposal ⁱ	1,884	1,994	—	—
Unrecorded, estimated	175	372	—	—
	1,379 ^j	1,235 ^j	—	—
Total recorded and estimated	5,569	6,013	—	—
Wildcats and discovery wells (included in above total)	574	825	—	—

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

^b Figures from American Petroleum Institute and American Gas Association, 1959. Barrels have 42 U. S. gallons and gas is based at 14.65 psia.

^c At 60 F.

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

^e Figures supplied by State Corporation Commission, base 14.65 psia.

^f The minimum value of 11 cents per M cubic feet of gas at 14.65 psia, has been applied to all Kansas gas production.

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

^h Omitting revived pools.

ⁱ Includes pool wells and new discoveries.

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

^k Counties for which number of wells drilled in 1959 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 based on "intent to drill" records.

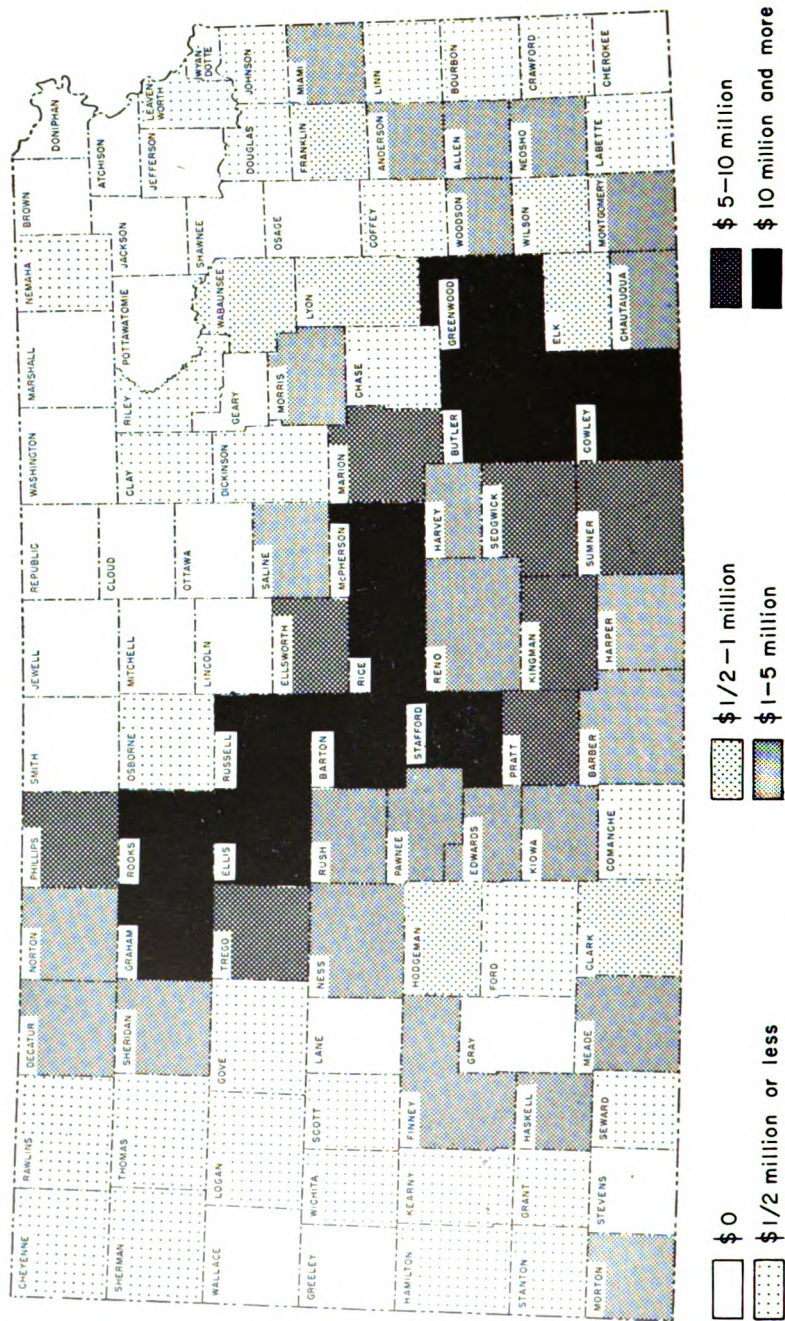


FIG. 2.—Map of Kansas showing relative value of 1959 oil and gas production by county.

western Kansas (Rawlins County) in the northern part of the Hugoton Embayment, Skelly Oil Company made a major strike with the opening of the **Cahoj** field in May. In northeastern Kansas in Riley County, the **Yaege** oil field was opened by the Cities Service Oil Company on the western flank of the Nemaha Anticline.

An initial potential of 3,000 barrels per day was assigned the discovery well of the **Cahoj** field, located on the A. S. Cahoj property in sec. 17, T. 1 S., R. 34 W. Oil is produced from several zones in the Lansing-Kansas City at a depth of 4,052 to 4,072 feet. A total of 29 producing wells had been completed in the field by the end of the year; 8 had initial state potential in excess of 2,000

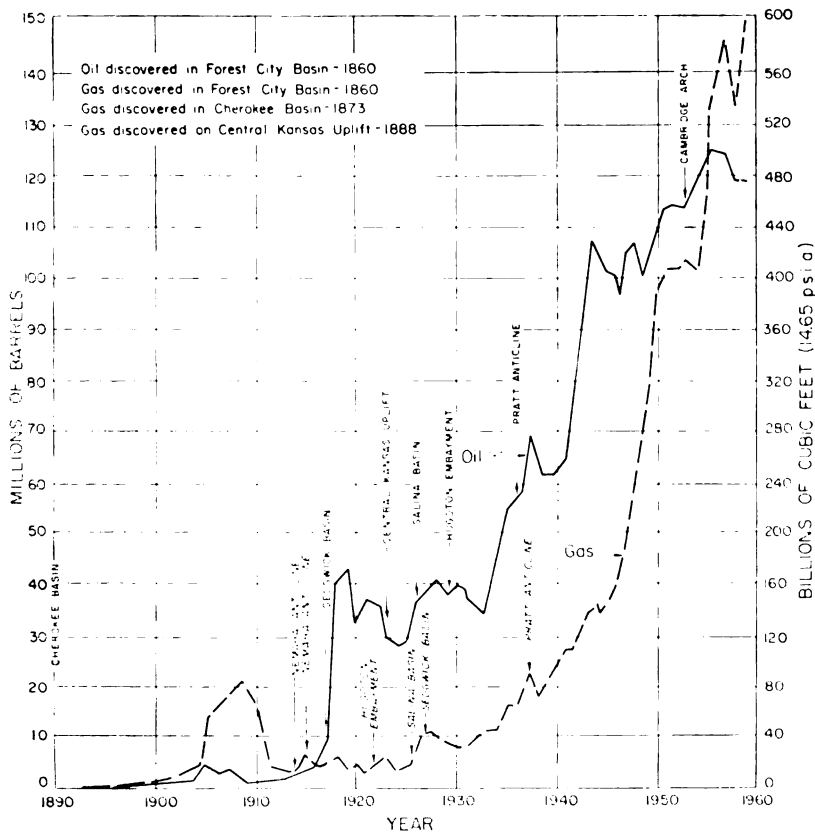


FIG. 3.—Annual oil and gas production in Kansas from 1890 to 1959 and year of discovery of oil or gas in different structural provinces.

barrels per day each. Conservative estimates place the total possible field wells between fifty and sixty. Six months total oil production from the field exceeded 50,000 barrels.

An extremely important development in eastern Kansas during 1959 was the discovery, in June, of the **Yaege** field in Riley County by Cities Service Oil Company on the Yaege farm in sec. 25, T. 11 S., R. 8 E. The discovery of "Hunton" oil on the western flank of the Nemaha Uplift created considerable excitement in the petroleum industry. The field was reportedly discovered through surface studies; it lies on the southern flank of a pre-Pennsylvanian high where porous "Hunton" rocks are unconformably overlain by Pennsylvanian strata. The initial potential of the discovery well from the "Hunton" rocks at a depth of 1,683 to 1,691 feet was 36 barrels of oil per day. A field well completed in November in the **Yaege** field, the No. 3 Gehrt, was named the discovery well of an additional producing zone, the Pennsylvanian basal conglomerate, at a depth of 1,633 to 1,643 feet. An initial potential of 34 barrels of oil per day was given this producing zone in the field. As of the end of 1959, the field had 24 producing oil wells.

Thus, the beginning of the oil centennial year in Kansas found an enlivened exploratory interest in several of its structural provinces. The rate of exploratory activity in Cheyenne County in northwestern Kansas accelerated during 1959; 20 test wells were put down although previously only 15 holes had been recorded as drilled. Three new Cheyenne County fields were discovered in 1959; the **Alexander**, **Ken**, and **Rueb South**. The **Alexander** field, opened by Saffa and Brauer, produces from the Marmaton at a depth of 4,765 to 4,770 feet in a well located in sec. 13, T. 4 S., R. 38 W. An initial potential of 84 barrels per day was assigned the discovery well, completed in December. The **Ken** field, opened in March by Phillips Petroleum Company No. 1 Wilkens "A" in sec. 16, T. 2 S., R. 37 W., produced oil from the Cherokee at a depth of 4,768 to 4,796 feet. An initial potential of 83 barrels per day was assigned the discovery well. The **Rueb South** field (extending the name of the 1958 **Rueb** discovery) was opened in December by the R. G. Lawton No. 1 Liebbrandt well in sec. 36, T. 3 S., R. 42 W.; oil is produced from the Lansing-Kansas City at a depth of 4,503 to 4,510 feet. Initial potential of 95 barrels per day was assigned the discovery well.

In addition to the **Cahoj** field in Rawlins County, the **Arbor**, **Kompus**, and **Wilhelm** fields were opened during 1959. The **Arbor** field was opened in April by Amerada Petroleum Corporation on the Walters lease in sec. 17, T. 4 S., R. 34 W. Oil is produced from the Lansing at a depth of 4,053 to 4,074 feet; initial potential of 80 barrels per day was assigned the discovery well. The **Kompus** field, in sec. 33, T. 1 S., R. 32 W., and the **Wilhelm**, in sec. 20, T. 1 S., R. 32 W., were opened by Skelly Oil Company; the Lansing produces at a depth of 4,061 to 4,070 feet in the **Wilhelm** field, opened in September, and 4,069 to 4,072 feet in the **Kompus** field, opened in August. Initial potential assigned the **Kompus** well was 30 barrels per day and the initial potential of the **Wilhelm** well was 258 barrels of oil per day.

A significant discovery in Thomas County during 1959 was the **Lanisia** field, opened in December by John O. Farmer, Inc., and Musgrove Oil Company on the Brown lease in sec. 12, T. 6 S., R. 35 W. An initial potential of 211 barrels per day from the Tarkio at a depth of 3,739 to 3,743 feet was assigned the discovery well.

Across the county line west from the Riley County **Yaeger** field on the western flank of the Nemaha Anticline, the **Ge-See** field in Geary County was opened in October in sec. 27, T. 11 S., R. 8 E., by the Adair Oil Company on the Green lease. Production was obtained in Cherokee rocks in the amount of 20 barrels per day from a depth of 1,749 to 1,761 feet.

Continued exploration beneath the huge **Hugoton Gas Area** in southwestern Kansas in the Hugoton Embayment found some additional new production from these deeper rocks during 1959. Of special significance is the **Ivanhoe** field in Finney County; Morrowan oil was discovered by Shell Oil Company in October. The **Wampler** field, Finney County, discovered by Imperial Oil of Kansas, Inc., in September, produces oil from the Marmaton. The **Pleasant Prairie North** field, discovered by Champlin Oil and Refining Company in February, produces oil from St. Louis (Mississippian) rocks. Later in the year, the field was combined with **Pleasant Prairie** in Finney and Haskell Counties. In Grant County, three Council Grove gas producing fields, the **Hattie**, **Panoma Northeast**, and **Ulysses**, opened during 1959, were combined with the huge **Panoma Gas Area** late in the year. Also in Grant County, the **Hick** oil field was opened in September by the United Producing Company, and produces from the

Mississippian; and the **Pollyana**, also opened in September, by Pleasant Prairie Oil, Inc., produces from the Lansing-Kansas City. In Hamilton County, the **Gould** oil field, opened in September by Coppinger Drilling, Inc., found oil in the Morrowan rocks, and in January the **Medway** gas field was found by the Hamilton Brothers well, which produces from the Winfield. Three additional **Eubank** extension fields were discovered in Haskell County during 1959; **Eubank East** and **Eubank North** produce from the Morrowan, and **Eubank Southeast** from the Lansing-Kansas City. In Kearny County, another **Hugoton Gas Area** county, the **Hattie Northeast** field, discovered by Northern Natural Gas Company, produces gas from the Council Grove Group; it was combined with the **Panoma Gas Area** at the end of the year. Four gas fields were opened in Morton County during the year; the **Berryman** field producing from the Wabaunsee, the **Kinsler**, a dual completion in Pennsylvanian (Des Moinesian) and Mississippian (St. Louis) rocks; the **Rolla** field, in the Lansing-Kansas City; and the **Wilburton** field, a dual completion in Topeka and Morrowan rocks. In Scott County, Kewanee Oil Company in January found an extension to the **Shallow Water** field, the **Shallow Water Northeast**, producing from the Cherokee. In Stanton County, Mississippian oil production was found in the **Beauchamp** and **Shore** fields during 1959. In the **Beauchamp East** field; also in Stanton County, gas from Morrowan rocks was discovered. In Stevens County, beneath the **Hugoton Gas Area** the Council Grove Group was found gas productive in the **Panoma South** and **West Center** fields. In the **Perrill** and **Walke-meyer** fields operators found gas in Morrowan rocks.

In northeastern Kansas in the Forest City Basin the Natural Gas and Oil Corporation opened the **Wilmington** field in sec. 29, T. 4 S., R. 12 E., Wabaunsee County; in April, an initial potential of 88 barrels of oil per day was assigned the well, from Simpson rocks at a depth of 3,124 to 3,127 feet. Completion of this well, and the summer developments on the western side of the Nemaha Anticline in Riley and Geary Counties, stimulated widespread exploration. Leasing activity was intensified in northeastern Kansas on both sides of the Nemaha Anticline, in the Salina Basin, and in the Forest City Basin. Developmental drilling (Natural Gas and Oil Corporation No. 2 Harrold well) in September found a Viola oil zone in the **Wilmington** field.

As an example of the increased activity in northeastern Kansas, the 15 wildcat wells drilled in Pottawatomie County during 1959 may be compared with 1 drilled the previous year. An additional indication is the 3 dry wildcat wells completed in Marshall County during 1959.

The developments in northwestern Kansas and northeastern Kansas during 1959 demonstrate the activity and interest of the oil and gas industry in Kansas. More wildcat wells are drilled in Kansas each year than in any other state except Texas. The success experienced by the petroleum industry in these two inadequately tested areas in Kansas suggests that more oil and gas reservoirs will be found in both areas.

Developments in southeastern Kansas in 1959 were accentuated by the search for shallow reservoir rocks in which commercial wells could be completed by hydraulic fracturing methods. There was some drilling also for Mississippian and Arbuckle production in eastern Kansas during 1959.

Tables.—Detailed production tables for both oil and gas are given in this bulletin (Table 31, 32). Each includes in alphabetical order all counties in the state that produce oil or gas. In Table 31, the listing for each county shows both current and known cumulative oil production, producing area in acres, name of field (alphabetically arranged), discovery year, producing zone, average thickness of producing zone, average gravity of oil, reported number of producing wells, and number of producing wells plugged during 1959. Similar data for gas are given in Table 32. Where possible, production from different zones has been 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.

Test wells drilled within 1½ miles of producing limits of fields are called "extension wells" and are not shown on the maps. Dry test holes drilled more than 1½ miles from producing wells are classed as "wildcat wells" and are plotted on the maps. Dry wildcat wells completed during 1959 are given in Table 30 by county.

The tops of different stratigraphic units listed in Table 30 were determined from electric or radioactivity logs. Holes penetrating Precambrian rocks are noted. If no electric or radioactivity log was available to the Survey for a well, an asterisk in front of

the well name indicates that various other sources of information were used to determine tops. These include logs of the Kansas Sample Log Service, scout tops reported by the Independent Oil and Gas Service, drillers logs, and sources within the Survey.

Because the location of boundaries of producing areas is arbitrary, the definition of a wildcat well may also be somewhat arbitrary, hence, the total number of wildcat wells reported by other sources is likely to differ somewhat.

Only wells drilled to completion within the year are counted as 1959 completions. Thus, wells worked over, although completed as producing wells, are not counted as 1959 completions. Unless an unproductive well was drilled expressly for injection or for salt-water disposal it is classified as a dry hole.

Area of production.—The areas of oil and gas production have been shown as accurately as reasonably possible. 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.

For eastern Kansas counties, only areas that were producing oil during 1959 are indicated (Pl. 1; Table 31). The State Geological Survey occasionally issues a bulletin on the oil and gas developments in eastern Kansas in which present production is differentiated from former producing areas now abandoned (Jewett, 1954).

Maps.—Figure 1 is an index map of Kansas showing generalized areas of oil and gas production. A larger scale map of Kansas, presented at uniform scale in three parts, shows all presently producing oil and some gas areas in the state (Pl. 1, 2, 3), except that only newly named gas producing areas are shown in eastern Kansas. Eastern Kansas, defined as that area east of the Sixth Principal Meridian (except Harvey, Sedgwick, and Sumner Counties), is shown on Plate 1. Plate 2 shows the area west of the Meridian to Range 20 West. The large gas producing area and oil fields of western Kansas, west of Range 20 West, are shown on Plate 3.

Abandoned and combined fields.—There were 16 fields officially recognized as abandoned in 1959. Data on discovery wells and cumulative production of abandoned fields are included in Table 28. Also during 1959, 34 oil or gas fields were combined

with other fields (Table 29). As has been the custom of the Survey, the outline of abandoned fields is omitted from maps in this bulletin.

Well elevations.—Elevations of many wildcat tests in the state are given in tables or in the text and have been taken from scout reports of the Kansas Oil Scouts and Landman's Association.

Acknowledgments.—Jewel M. Ogden, J. P. Roberts, H. A. Beverlin, Leo Thiessen, and others of the Conservation Division of the State Corporation Commission have long cooperated to the fullest extent with the State Geological Survey. Without their cooperation, this report would not be possible.

Thanks are expressed to American Petrofina Company of Texas; Anderson-Prichard Oil Corporation; Beaumont Petroleum Company; Becker-Brigham Oil Company; Bison Oil Company; Marvin E. Boyer; Carter Oil Company; Chanute Refining Company; Cities Service Oil Company; Clark Oil and Refining Corporation; Mack C. Colt; Continental Oil Company; Co-operative Refinery Association; Derby Refining Company; Virgil Gamble; Indiana Oil Purchasing Company; Keas Drilling Company; Joe Maclaskey; W. L. Maclaskey; Mid-America Refining Company; Mobil Crude Oil Purchasing Company; Ohio Oil Company; Robert Page; Phillips Petroleum Company; Producers Pipe Line Company; Rock Island Oil and Refining Company; Sinclair Oil and Gas Company; Sinclair Crude Oil Company; Skelly Oil Company; Stekoll Petroleum Company; Lester Town; and Vickers Petroleum Company, who send monthly oil purchase reports to the Survey and who have helped in many other ways.

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

Special thanks are due to J. E. Davies of the Kansas Sample Log Service for permission to use data on some rank wildcat tests drilled during the year. We acknowledge also the Independent Oil and Gas Service's scouting service, which has been most helpful.

The Survey is pleased to acknowledge assistance from Vance E. Rowe of Petroleum Statistical Guide, Incorporated, in supplying a part of the crude oil production figures, and from Dwight's

Oil and Gas Reports, which made available the production figures for the Hugoton Gas Area.

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

EXPLORATION

A summary of drilling activity in Kansas during 1959 is given in Table 24. Comparison of development by county is facilitated by inclusion of statewide data in this single table.

New fields.—During 1959, 157 new oil fields, 39 new gas fields, and 2 that were both oil and gas fields were discovered in Kansas (Table 25). On Plates 1, 2, and 3 these new fields are emphasized by a heavier outline than the older fields. Eight previously abandoned oil or gas fields were revived during the year (Table 26). Of the 206 new and revived fields, the discovery wells of 5 were carried on the scout reports as dry and abandoned. Thirty-four fields were combined with other fields. Three newly named fields, **Berndsen** (Butler County, oil), **Snake Creek Northeast** (Clark County, gas), and **Novinger East** (Meade County, gas) had production previous to 1959.

Barton County had the most new discoveries named, 18; Ellis County had 17 fields named; Stafford, Graham, and Sumner had 13, 9, and 9 new fields named respectively. The number of new oil and gas fields (198) discovered during 1959 is 11 more than the previous high set in 1953. Geary and Riley Counties, producing for the first time in 1959, bring to 85 the total number of Kansas counties that have produced or are producing commercial quantities of oil or gas or both. Pertinent data on the new pool discoveries are given in Table 25.

Table 27 summarizes new oil and gas zones discovered in established producing fields during 1959; 47 new zones were named. Also, data similar to those presented for new pool discoveries are given. New oil and gas zone discoveries are significant because the new zone in many fields may be economically more important than the original discovery.

Wells drilled during 1959.—There were 4,778 wells recorded as drilled in the state during 1959. It is certain that numerous shallow wells in several eastern Kansas counties were not recorded and thus are not included in the above tabulation. It is estimated from drilling permits on file with the Kansas Corporation Commission and from surveys of secondary recovery projects that at least 1,235 such unrecorded wells were drilled in 1959. Of the reported tests, 2,161 produced oil, 194 gas, and 57 oil and gas; 1,994 were dry and abandoned; and 372 were salt-water disposal wells or input wells drilled in connection with secondary recovery operations. New field discoveries and revived fields accounted for 206 of the oil and gas wells; 627 of the dry holes were dry wildcat tests.

Ratio of wildcat to total wells drilled in Kansas was the highest in the nation during 1959, as in 1958. In Kansas, 31.4 percent of all wells drilled were listed as explorational efforts, compared to 26.4 percent in 1958 (World Oil, 1960a). These figures are based on wildcat wells exclusive of wells drilled in eastern Kansas. Kansas was followed by Illinois, California, and Texas, in each of which more than 20 percent of the wells were classified as wildcat exploratory drilling during 1959. A list of Kansas dry wildcat wells by county is given in Table 30.

In each of seven Kansas counties more than 200 wells were recorded and estimated as drilled in 1959. Allen County led with 392 new wells, followed by Butler (368), Greenwood (319), Marion (269), Ellis (261), Cowley (251), and Barton (232). These seven counties accounted for about 35 percent of the total number of wells drilled in the state during 1959.

A statute requiring drillers to file an "intent-to-drill" application with the State Corporation Commission has facilitated tabulation of new wells, especially in eastern Kansas areas not scouted by the Oil Scouts and Landman's Association. Figure 4 shows the geographic distribution by county of wells tabulated on the basis of applications filed. Table 2 lists by county the number of permits issued during 1959.

Drilling cost and drilling rigs.—In Kansas at the end of 1958 there were 321 rigs reported operating; by the end of 1959 the number had declined to 245, reflecting the general decline in exploration and exploitation by the industry (World Oil, 1960b). An average of 293 rigs was active during 1959 in Kansas.

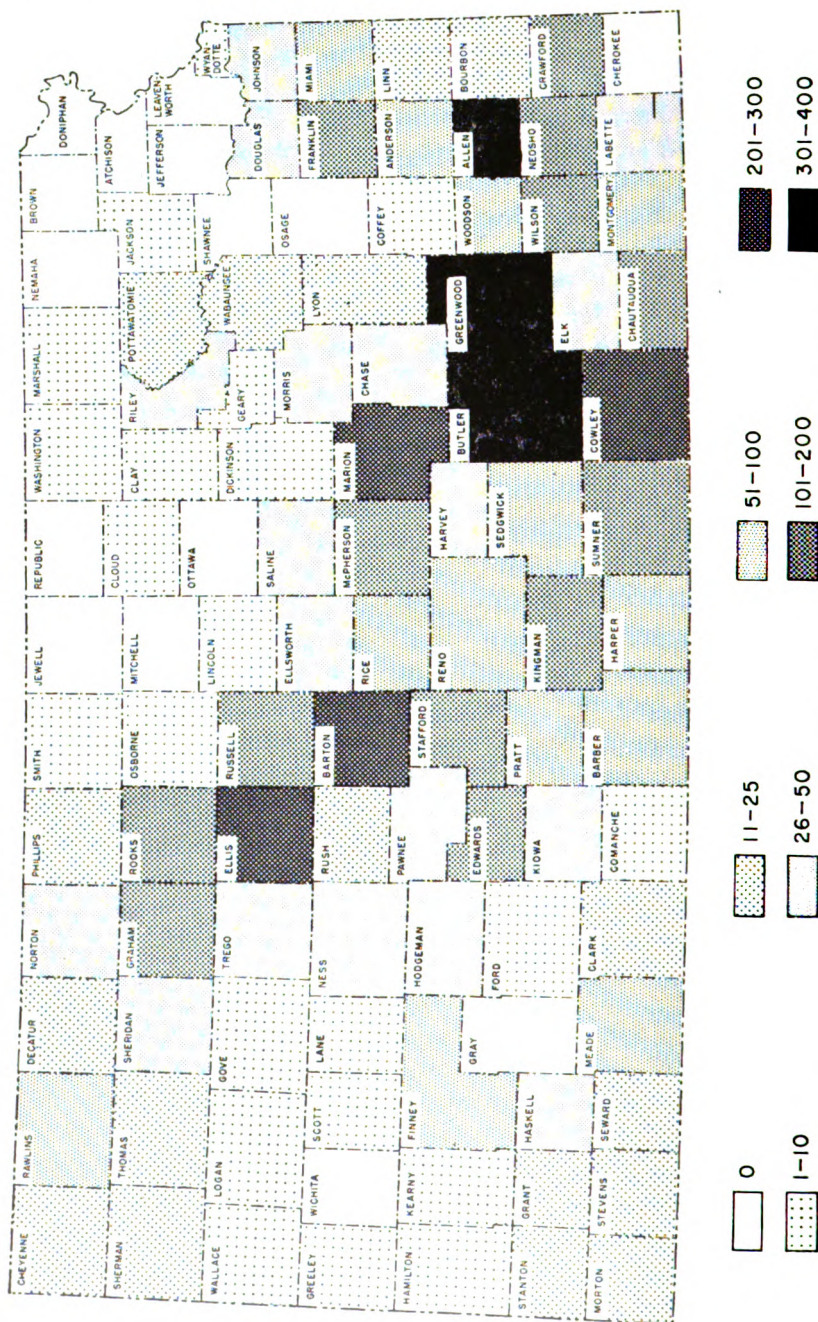


FIG. 4.—Distribution of intent-to-drill permits issued by State Corporation Commission, 1959.

TABLE 2.—Number of intent-to-drill permits issued by State Corporation Commission in Kansas during 1959, by county.

Allen	391	Greeley	1	Pawnee	28
Anderson	56	Greenwood	319	Phillips	18
Barber	80	Hamilton	7	Pottawatomie	17
Barton	219	Harper	71	Pratt	53
Bourbon	16	Harvey	44	Rawlins	74
Butler	368	Haskell	33	Reno	79
Chase	27	Hodgeman	30	Rice	83
Chautauqua	104	Jackson	2	Riley	37
Cheyenne	19	Johnson	28	Rooks	108
Clark	15	Kearny	7	Rush	24
Clay	6	Kingman	131	Russell	151
Cloud	2	Kiowa	30	Saline	44
Coffey	3	Labette	35	Scott	3
Comanche	5	Lane	2	Sedgwick	98
Cowley	251	Lincoln	1	Seward	14
Crawford	156	Linn	14	Sheridan	37
Decatur	24	Logan	4	Sherman	13
Dickinson	10	Lyon	13	Smith	1
Douglas	49	McPherson	134	Stafford	193
Edwards	106	Marion	268	Stanton	12
Elk	44	Marshall	3	Stevens	22
Ellis	261	Meade	73	Sumner	144
Ellsworth	26	Miami	60	Thomas	13
Finney	65	Montgomery	88	Trego	43
Ford	4	Morris	34	Wabaunsee	24
Franklin	177	Morton	15	Wallace	2
Geary	8	Neosho	162	Washington	5
Gove	4	Ness	30	Wilson	126
Graham	171	Norton	40	Woodson	91
Grant	18	Osborne	5	Wyandotte	1

In the Hugoton Gas Area (Chase Group, 2,700 feet) wells were drilled at a footage price of \$2.50; hourly, with pipe \$20.00, without pipe, \$13.00. Drilling costs in the McKinney gas field (Morrowan-Mississippian, 6,000 feet), footage price is \$4.25; per day, with pipe \$650.00, without pipe \$550.00 (Bike, 1959). Cost of a test to Precambrian rocks in the Cheyenne, Rawlins, Thomas, and Sherman Counties area ranges from \$15,000 to \$25,000, and for completions as much more.

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

The total number of exploration crews in Kansas has in-

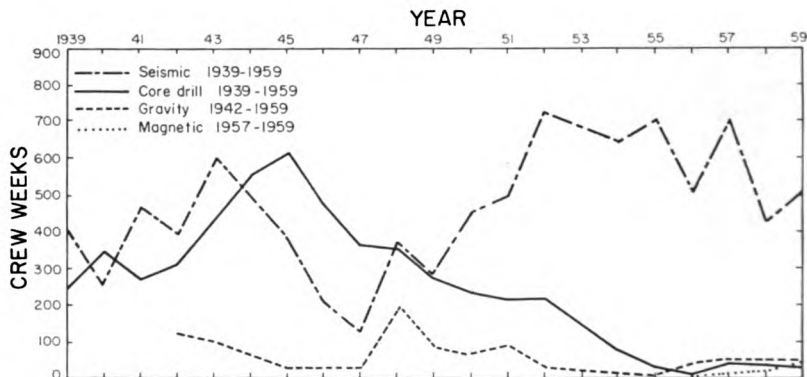


FIG. 5.—Geophysical and core-drill crew weeks recorded in Kansas from 1939 to 1959 (adapted from Merriam and Goebel, 1959a).

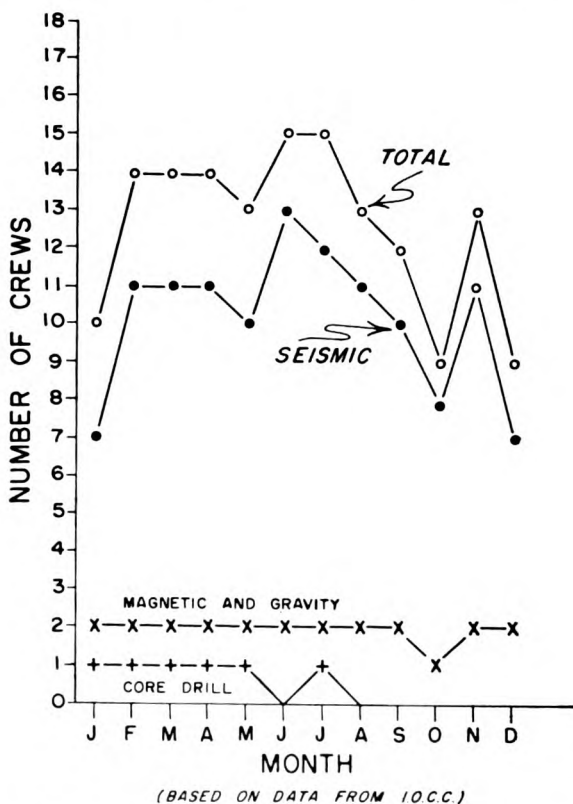


FIG. 6.—Graph showing number of geophysical and core-drill crews operating in Kansas during 1959 (in part from Merriam and Hambleton, 1959).

Seismic exploration has been concentrated mainly in the area of the northern part of the Nemaha Anticline, in the Sedgwick Basin, and the Hugoton Embayment (Fig. 7). Each year from 1953 to 1957, 19 to 41 percent of the total oil and gas fields discovered in the state must be credited to seismic work (Merriam and Hambleton, 1959).

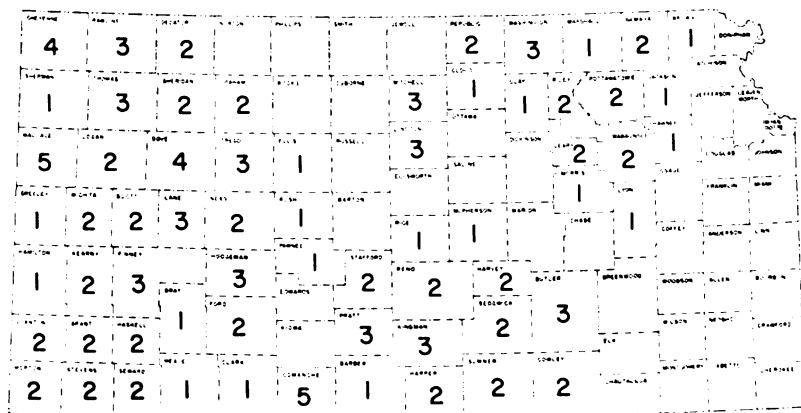


FIG. 7.—Distribution by county of geophysical crews active in Kansas in 1959.

OIL

Production and value.—The 119,473,875 barrels of oil produced in Kansas during 1959 is 468,219 barrels less than the amount produced in 1958. The 2.0 percent decrease in total value of crude oil, from 362.2 to 354.8 million dollars, is due to decrease both in price and production.

The number of counties from which oil production was reported during 1959 is 80. Among the ten leading oil producing

TABLE 3.—Ten leading oil producing counties in Kansas, 1958 and 1959

County	Production, bbl.		Rank	
	1958	1959	1958	1959
Barton	11,546,500	11,404,683	1	1
Ellis	11,314,968	11,222,654	2	2
Russell	9,005,985	8,922,064	3	3
Butler	7,714,554	7,929,366	4	4
Graham	6,800,352	6,889,023	5	5
Rooks	6,389,441	6,066,361	7	6
Stafford	5,887,005	5,845,204	8	7
Greenwood	6,466,719	5,844,543	6	8
Rice	5,314,385	4,666,987	9	9
Cowley	4,171,897	3,858,450	10	10

counties, only one change was noted compared with 1958; Greenwood County dropped to 8th during 1959 and Rooks County and Stafford County advanced to 6th and 7th respectively (Table 3). Of the ten leading oil producing counties, only Butler and Graham Counties showed increases in crude oil production during 1959 compared with 1958.

Kansas has 15 counties (Table 4) that have each produced a cumulative quantity of 50,000,000 barrels of oil or more. Of these, Butler County, in eastern Kansas, ranks first, having produced 437,516,367 barrels, considerably more than the 332,190,198 barrels of second-place Barton County. In 1959, Ellis County passed Rice County in cumulative production.

Distribution of cumulative oil production by producing zones

TABLE 4.—Leading oil producing counties in Kansas based upon reported, estimated, and recorded cumulative production (50 million barrels or more) to end of 1959

County	Cumulative production, bbl.		Rank	
	1958	1959	1958	1959
Butler	429,587,001	437,516,367	1	1
Barton	320,785,515*	332,190,198	2	2
Russell	297,532,091	306,454,155	3	3
Greenwood	223,042,369	228,886,912	4	4
Ellis	215,675,431	226,888,085*	6	5
Rice	221,189,082	225,856,069*	5	6
McPherson	144,568,785*	148,269,306*	7	7
Stafford	132,617,382*	138,426,185*	8	8
Cowley	96,488,132	100,346,582	9	9
Ellsworth	91,774,706	93,924,791	10	10
Rooks	80,471,282*	86,537,643	11	11
Sumner	70,001,482*	72,893,539	12	12
Sedgwick	67,726,683	70,479,157	13	13
Reno	62,893,875	63,896,384	14	14
Graham	50,555,688	57,444,711	15	15

* Corrected cumulative.

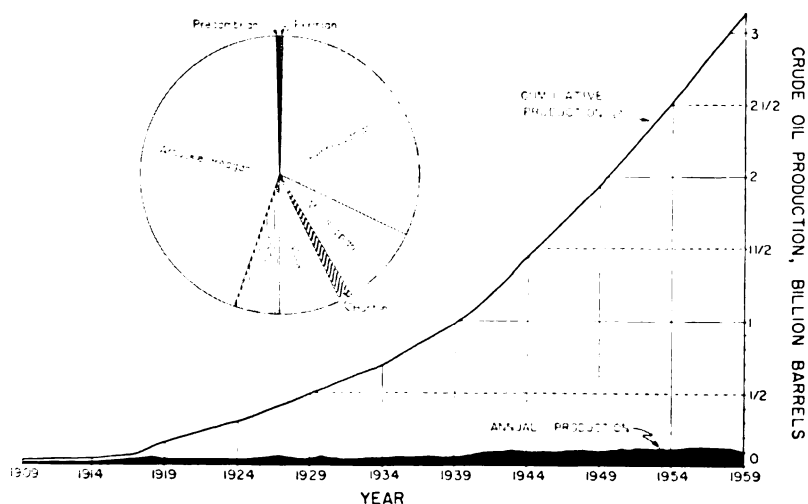


FIG. 8.—Distribution of cumulative oil production by zone (from Merriam and Goebel, 1960).

is significant in exploration for additional reserves. Figure 8 shows the cumulative oil production in Kansas, which had almost reached the $3\frac{1}{4}$ billion barrel mark at the end of 1959. Annual production exceeded 100 million barrels in 14 of the last 17 years, including every year since 1947. 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 other 23 percent of cumulative oil production. The state has produced as much crude oil since the end of World War II as before. Statistics on oil production by county are given in Table 24 and Table 31.

Of the six major oil fields listed in Table 5, only the El Dorado field in Butler County lies east of the Sixth Principal Meridian. El Dorado and Chase-Silica, the state's leading oil fields, had

TABLE 5.—Leading oil fields in Kansas, 1958 and 1959

Rank, 1959	Field	Age, years	County	Annual production, bbl.	
				1958	1959
1	Bemis-Shutts	25	Ellis-Rooks	5,062,516	4,867,675
2	El Dorado	44	Butler	4,370,959	4,443,182
3	Chase-Silica	29	Rice-Barton-Stafford	3,259,898	3,689,358
4	Hall-Gurney	29	Russell-Barton	3,295,576	3,253,461
5	Trapp	24	Russell-Barton	3,365,752	3,120,143
6	Kraft-Prusa	23	Barton-Ellsworth	3,092,206	2,889,685

TABLE 6.—*Kansas refineries and capacity, 1959*

Company and location	Crude capacity						Charge, bbl. per stream day				Production, bbl. per stream day				
	BPCD	BPSD	Vacuum distillate	Thermal operations	Fresh feed	Recycle	Catalytic cracking		Hydrogen treating		Alkylation	Polymerization	Lubes	Coke (tons)	Asphalt
									Unit	Feed					
American Petrofina Co. of Texas, El Dorado	19,000	20,000	6,000	.....	6,000	4,000	2,500	.....	.....	.....	.....	450	.....	.....	1,900
Anderson-Pritchard Oil Corp., Arkansas City	25,000	26,000	5,000	3,500	7,500	4,800	5,000	.....	.....	.....	2,200	.....	.....	.....	1,300
Century Refining Co., Inc., Shallow Water	4,000	4,200	2,000	1,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	400
Cooperative Refinery Assoc., Coffeeville	24,500	25,500	6,000	8,000	10,000	8,500	4,200	2,300	Mid. dist.	500	1,200	500	1,200	150	1,200
Phillipsburg	13,000	14,000	4,500	.....	5,000	4,500	2,500	3,500	Naphtha	750	.....	.....	.....	.....	1,500
Derby Refining Co., Wichita	18,500	20,500	6,000	*3,000	7,500	4,500	2,500	4,000	Naphtha	*600	1,600	.....	.....	.....	2,000
Mid-America Refining Co., Inc., Chanute	2,500	2,625	1,500	1,200	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	350
Mobil Oil Co., Augusta	40,000	42,000	13,200	4,300	14,800	8,000	9,500	.....	.....	.....	1,700	.....	.....	.....	7,000
National Coop. Refinery Assoc., McPherson	31,000	33,000	.....	2,000 12,000	13,500	6,000	5,000	.....	.....	.....	2,300	1,000	.....	250	.....
Phillips Petroleum Co., Kansas City	70,000	NR	15,000	.....	24,000	16,000	16,000	.....	.....	.....	6,600	.....	2,400	.....	2,400
Skelly Oil Co., El Dorado	45,000	48,000	24,000	6,500 8,500	20,000	2,500	15,000	10,000	Naphtha	3,500	1,400	.....	500	3,000	.....
Standard Oil Co. (Ind.), Neodesha	23,100	24,300	.....	5,200	10,000	1,000	6,000	6,000	Naphtha	1,300	.....	.....	.....	90	.....
Vickers Petroleum Co., Inc., Potwin	16,000	17,200	3,000	3,400 1,500	8,200	2,000	3,100	3,000	Naphtha	.....	.....	.....	.....	.....	.....
Total†	331,600	351,005	86,200	60,300	126,500	61,800	71,300	28,800	.....	.....	20,400	4,700	3,600	990	21,050

* Shut down.
† State total includes crude capacity not reported, estimated on stream-day basis.
The Oil and Gas Journal, March 28, 1960

increases in annual production compared with the previous year. It is of interest that the youngest of the state's leading oil fields, Kraft-Prusa, is 23 years old.

Table 6 lists the name and location of 13 refineries operating in Kansas during 1959. Crude capacity, throughput, and products per stream day are shown (The Oil and Gas Journal, 1960). The Chanute Refining Company, Incorporated, at Chanute was not operating at the end of 1959.

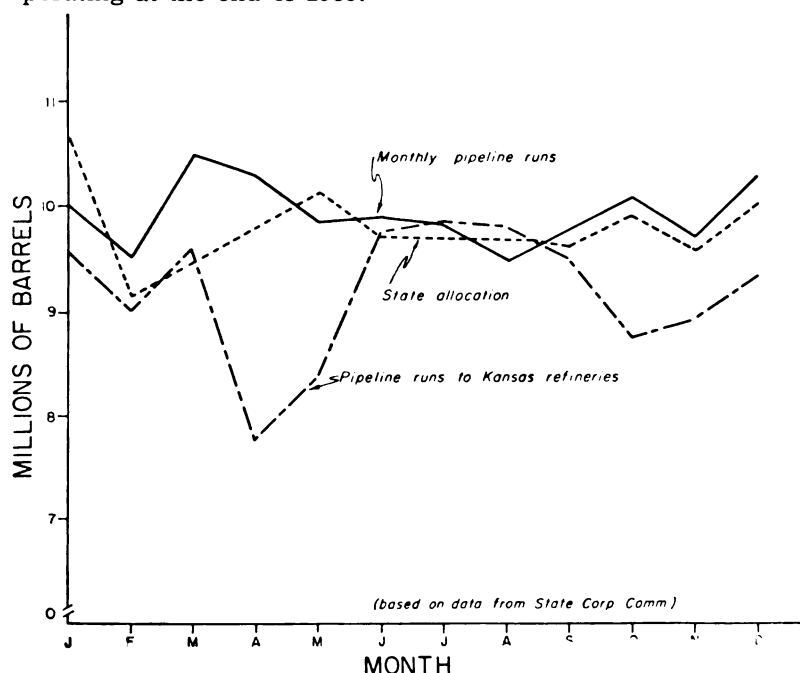


FIG. 9.—Monthly comparison of crude oil allocated, pipeline runs to Kansas refineries, and total daily average pipeline runs in Kansas during 1959.

Figure 9 shows a monthly comparison of allocated crude oil to crude oil reported received by Kansas refineries and total daily average pipeline runs (averaged monthly) in Kansas during 1959. State allocation of crude oil exceeded daily average runs in January and May, but lagged during the other months. Figure 10 compares by month during 1959 the amount of crude oil demand forecast by the U.S. Bureau of Mines, the amount nominated to be purchased by purchasers, the amount allocated by the State Corporation Commission, and the amount actually run by pipeline companies.

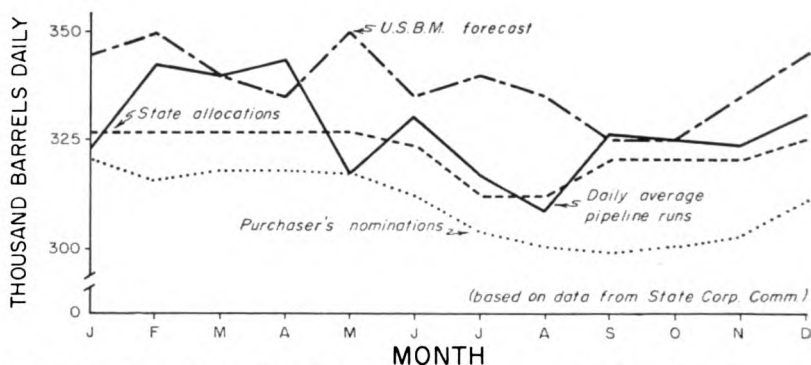


FIG. 10.—Comparison of crude oil forecast, nominated, allotted, and actual pipeline runs by months in Kansas during 1959.

Purchasers' nominations were consistently below daily average runs and state allocations for the year. The Bureau of Mines forecast of crude oil demand on a monthly basis was less than the daily average runs (averaged monthly) in April and September only.

The Bureau of Mines reported the 1959 nationwide average value of crude oil at the wellhead as \$2.94 a barrel, down 7 cents from 1958. The estimated value of crude oil per barrel (36.0° to 36.9°) in Kansas during 1959 averaged \$2.97. Table 7 shows crude oil price changes since 1949 in the Midcontinent.

During 1959, oil refined in Kansas refineries amounted to 110,099,964 barrels. The total production was 119,473,875 barrels. Imports of oil in 1959 increased by 10.5 percent to 41,884,139 barrels. Exports of oil during 1959 decreased by 1,472,103 barrels. Total quantity of oil accounted for in 1959 was 161,358,014 com-

TABLE 7.—Crude oil price changes in Midcontinent, by years
(dollars per bbl.)

Date	Okla.- Kansas 36-36.9° gravity
1949: June 1	\$2.57
1951: Frozen at Jan. 25 level	2.57
1953: Feb. 16: decontrolled .....	.....
June 15	2.82
1957: January 3	3.07
1958: October 3	2.93
October 3	3.00
1959: Feb. 20	2.97

World Oil, 1960c

TABLE 8.—Barrels of oil produced, imported, refined, and exported in Kansas, 1958-1959*

	1958	1959
Produced	119,942,094	119,473,875
Imported	37,895,812	41,884,139
Total	157,837,906	161,358,014
Exported	52,730,163	51,258,050
Crude oil refined	105,107,743	110,099,964
Total	157,837,906	161,358,014

* From the Conservation Division, State Corporation Commission

pared to 157,837,906 barrels in 1958. Data on production, imports, exports, crude oil refined, and total quantity of oil accounted for in 1958 and 1959 are listed in Table 8.

Oil and Gas Conservation Division.—Monthly oil proration reports are issued by the Conservation Division of the State Corporation Commission for many of the state's oil fields. Productivity tests of new wells are made immediately. Supervision of dual completions and installation of packers in oil wells in Kansas is under the jurisdiction of the Conservation Division, and particular emphasis is placed on avoiding the co-mingling of water or oil from different zones. The Conservation Division supervises the plugging of wells and the disposal of produced saltwater in the subsurface. Cost of regulating the petroleum industry in Kansas is paid by the industry. A fee of 1.0 cent per foot is charged for supervision of plugging. Oil production is assessed at the rate of .001 cent per barrel.

Pipeline and refinery construction in Kansas during 1959.—The refining of crude oil in Kansas refineries, the production of natural gas liquids from Kansas natural gasoline plants, and the movement of crude oil products and natural gas through transmission lines inter- and intra-state are an integral part of the petroleum industry.

During 1959 two oil pipelines from Oklahoma were completed and connected to the Jayhawk Pipeline at Harper Ranch station in Clark County, Kansas. These consist of 30 miles of 8-inch line from Harper County, Oklahoma, and 45 miles of 6- and 8-inch trunk line and 15 miles of gathering lines from Laverne, Oklahoma. Capacity of the Jayhawk Pipeline crude line was increased by the addition of booster station capacity at Harper Ranch in Clark County and at Haviland in Kiowa County (Oil and Gas

Journal, August 24, 1959). Two southwestern Kansas oil pools were connected to the Jayhawk Pipeline during 1959, the **Eubank** and the **Taloga** fields. The Cooperative Refinery Association added 6 miles of 6-inch line at Stockton, Kansas, in their pipeline system during the year.

A gathering line serving the **Pleasant Prairie** pool in Kearny County has been completed and connected to Jayhawk Pipeline. The crude oil project consisted of 44 miles of 6-inch and 12 miles of 3- and 4-inch pipe (Oil and Gas Journal, April 13, 1959).

The name of the Derby Refining Company was changed to Derby Refining Company Division, Colorado Oil and Gas Corporation, in 1959.

At the Skelly Oil Company's refinery in El Dorado, Kansas, a new HF alkylation unit was put in operation. In full operation it turns out 3,500 barrels daily of high octane gasoline. The El Dorado refinery now has crude capacity of 40,000 barrels a day (Oil and Gas Journal, March 23, 1959). At Phillips Petroleum Company's Kansas City refinery a 6,600-bbl. HF alkylation unit was under contract to be built during 1959.

SECONDARY RECOVERY

Repressuring of oil-bearing rocks by injection of water, air, gas, or a combination of these agents has become a principal method of oil production in Kansas since official sanction and status were given the practice through the passage of a state law in 1935. Grandone (1944) reported that after passage of the law the first legal project was organized by the York State Oil Company in the **Seeley** pool (now **Seeley-Wick**) of northern Greenwood County in May 1935. Pointing up the significance of the secondary recovery activities in the state is the fact that such production has risen from an estimated 5 million barrels in 1942 to 17.9 million barrels in 1959, when it amounted to about 15.0 percent of the total production. The reported production for 1959 totaled 11,798,569 barrels, and the figure of 17.9 million barrels is obtained by adding an estimate of those operations not reporting specifically, but for which reasonably accurate production data are known.

There were 601 projects in Kansas during 1959. Records were received from some, and for others, permits were issued but no secondary recovery questionnaires were returned. Within these

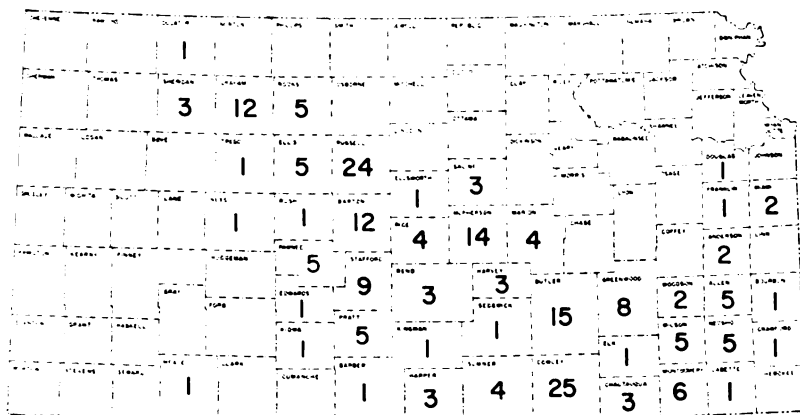


FIG. 11.—Distribution of permits issued by State Corporation Commission for secondary recovery projects in Kansas, 1959.

projects there were an estimated 7,254 producing wells and 3,649 wells utilized as input wells for injection of a repressuring medium. Of the total projects listed, 511 are located in eastern Kansas. During 1959, the Conservation Division of the State Corporation Commission issued 211 permits for secondary recovery operations. The areal distribution is shown in Figure 11. During 1959, many new projects were started in western Kansas oil pools, especially in Russell and Barton Counties. This points out the significance of secondary recovery methods in the larger and older fields on the Central Kansas Uplift.

In past years, a listing of the secondary recovery operations in the state was included as a table in this report. Because this listing has tripled in size, partly through better collection of information, it is deemed necessary to publish the data as a separate report. Therefore, this year for the first time, the table showing greater detail on the operations of secondary recovery projects in Kansas will be available separately, as Oil and Gas Investigations 20.

Greenwood County, as in past years, led in the number of reported projects operating but was second in production attributable to secondary recovery (Table 9). During 1959, the 86 recorded projects in Greenwood County produced at least 4.1 million barrels of oil. Projects in Butler County (81), the largest producer of oil by secondary recovery methods, yielded at least 4.3 million barrels. These two counties accounted for about half the oil produced by repressuring projects in Kansas.

TABLE 9.—Data on nine selected eastern Kansas counties producing oil by secondary recovery in 1959

County	Number of projects	Oil production, bbl.	
		Total	By secondary recovery ^a
Allen	32	979,234	785,653
Anderson	19	488,405	426,433
Butler	80	7,929,366	4,318,555
Cowley	65	3,858,450	1,244,645
Franklin	13	294,360	252,377
Greenwood	88	5,844,543	4,131,383
Miami	17	495,571	457,079
Montgomery	29	530,342	237,395
Neosho	27	520,982	371,741

^a In part estimated

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

In general, ground water is more satisfactory for water flooding, because the quality of river water varies greatly with the seasons; hence the necessary treatment varies. Ground water 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 operations of a combustion project are the amount of air required, the rate of air injection, and the air in-

jection pressure. A Kansas project, started by Sinclair Oil and Gas Company in 1956, is 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 approval of new cross-country lines come under the jurisdiction of the Interstate Commerce Commission and the Federal Power Commission, respectively. The apportionment of new lines and approval of transmission of gas are based on considerations of the greatest good to the greatest number of people and on economic investment values. Thus Kansas, ranking fifth among the gas-producing states, third in reserves, yet having a relatively small population, has a minor voice in the eventual use of the gas. 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 our annual gas production is being exported, but estimated domestic and industrial use of natural gas within the state has risen during the last few years.

Production and value.—Natural gas production during 1959 increased 11.1 percent from the previous year to 595,244,836 thousand cubic feet calculated at the base of 14.65 pounds per square inch absolute. The estimated value of natural gas increased to \$65,476,932 compared to \$58,953,118 in 1958, an 11.1 percent increase in 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.

Natural gas was produced in 50 counties in 1959. Each of 15 counties (Table 10) produced 3 billion cubic feet of gas or more during 1958 or 1959. Among these 15 counties, Stevens County maintained its lead, producing 103,479,190 thousand cubic feet. Harper County was added to the list for the first time in 1959.

Sixteen counties in Kansas had cumulative production of 20 billion cubic feet or more of natural gas to the end of 1959. Although complete production records are not available or are non-existent for most eastern counties, it is certain that Allen, Cowley,

TABLE 10.—Kansas counties producing 3 billion cubic feet of natural gas or more annually, 1958 and 1959

County	Production, M cu. ft. (14.65 psia)		Rank	
	1958	1959	1958	1959
Stevens	90,231,496	103,479,190	1	1
Grant	76,951,008	90,869,682	3	2
Morton	84,762,672	85,803,592	2	3
Kearny	62,477,345	69,576,597	4	4
Barber	51,428,484	55,081,079	5	5
Finney	36,885,767	44,291,434	6	6
Haskell	23,456,900	28,702,647	8	7
Seward	24,421,166	26,228,374	7	8
Stanton	19,944,619	23,846,214	9	9
Kingman	11,686,453	15,351,781	10	10
Meade	10,295,596	12,738,162	11	11
Clark	6,536,692	6,897,840	12	12
Harper	2,977,950	4,839,145	15	13
Reno	3,578,905	4,653,637	14	14
Hamilton	4,228,915	4,254,341	13	15

Montgomery, and Wilson have each produced 10 billion cubic feet of gas or more. Rank for 1958 and 1959 is noted in Table 11.

Figure 12 shows the distribution of cumulative gas production in Kansas to the end of 1959 by zones. Cumulative gas production

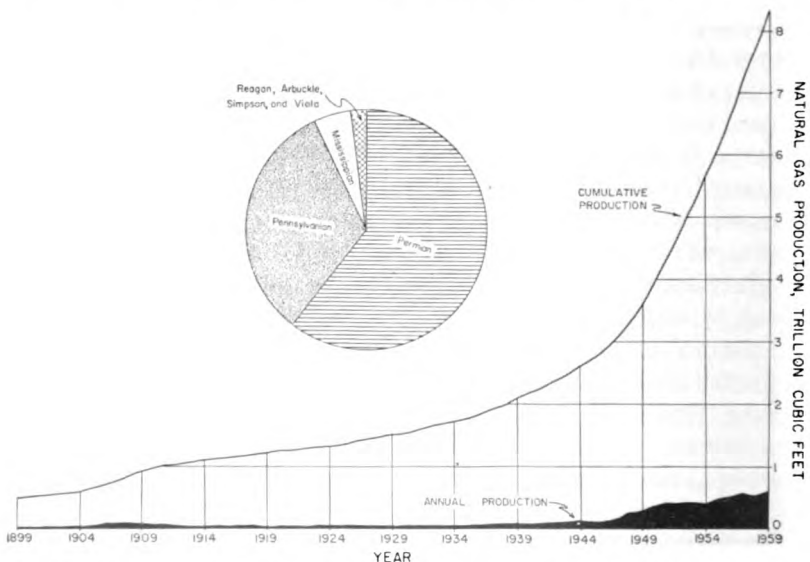


FIG. 12.—Distribution of cumulative gas production by zone (from Merriam and Goebel, 1960).

TABLE 11.—Counties in Kansas having cumulative production of 20 billion cu. ft. of gas or more to end of 1959 (based on estimated and recorded production)*

County	Cumulative production M. cu. ft. (14.65 psia)	Rank	
		1958	1959
Stevens	1,778,350,978	1	1
Grant	1,020,941,851	2	2
Kearny	726,059,436	3	3
Morton	609,800,873	4	4
Barber	451,985,074	5	5
Finney	377,080,328	7	6
Haskell	367,001,271	6	7
Seward	293,666,784	8	8
Stanton	171,159,802	9	9
Meade	51,544,220	10	10
Kingman	50,775,962	12	11
Pawnee	40,546,071	11	12
Rice	35,553,190	13	13
Hamilton	34,785,760	14	14
Barton	24,318,652	15	15
Pratt	21,777,560	16	16

* Several eastern Kansas counties, although no longer important gas producers, formerly yielded great quantities of gas. Published data on cumulative gas production for eastern counties are not available. It is reasonably certain, however, from data that are extant, that Allen, Cowley, Montgomery, and Wilson Counties have each produced 10 billion cubic feet of gas or more.

exceeds 8 trillion cubic feet. The Permian gas production (mostly from the **Hugoton Gas Area**) is about 61 percent of the total. Other important gas zones are the Pennsylvanian, which accounts for 32 percent, and the Mississippian and Cambrian-Ordovician, which combined account for about 7 percent of past gas production.

Since 1956, annual gas production has exceeded 500,000,000 thousand cubic feet and since 1943 has been more than 100,000,000 thousand cubic feet annually.

In the gas production table (Table 32), 1959 production and cumulative figures 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 about 55 years ago, was less than 1 percent, whereas production from the **Hugoton Gas Area** in southwestern Kansas was about 68 percent of the state total for 1959.

Consumption of marketed natural gas in Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, and South Dakota is reported quarterly as a unit by the Bureau of Mines. Therefore, detailed breakdown of use during 1959 within Kansas is un-

available at this time. During 1958, the Bureau of Mines reports 64,486,000 M cu. ft. valued at an average of 60.4 cents per thousand was consumed in residential use. A total of 40,147,000 M cu. ft. valued at an average of 19.9 cents per thousand was consumed commercially. Industrial consumption was 257,647 M cu. ft., parts of which were valued at 18.9 cents and 20.4 cents per M cu. ft.

At the end of the year, monthly proration schedules were issued for 23 fields. These are the **Hugoton Gas Area**, **Greenwood Gas Area**, **McKinney**, **Taloga** (**Keyes**, **Taloga "C"**, and **Taloga "G"**), **Sparks**, **Richfield**, **Goetz**, **Spivey-Grabs**, **Nichols**, **Blunk**, **Boggs**, **Driftwood**, **Elsea**, **Elwood**, **Farley**, **Hardtner**, **McGuire-Goemann**, **Rhodes North**, **Rhodes Northeast**, **Rhodes South**, **Sharon Northwest**, **Medicine Lodge Southwest**, and **Medicine Lodge West**. Unprorated gas fields in Kansas are limited by statute not to run in excess of 25 percent of the open-flow capacity. Purchasing companies are required to file each month a record of the amount of gas purchased from wells in Kansas. Gas deliverability tests are made annually. Gas was assessed during 1959 at .00025 cents per thousand cubic feet to provide income for regulatory purposes.

New developments.—There were 41 new gas fields (39 gas and 2 oil and gas) named in Kansas during 1959 (Table 25).

Of the new fields, 13 produce from Morrowan rocks and 10 from Mississippian rocks. Of special interest is the **Panoma Gas Area** created by the combining of 8 new fields and 1 old field, which had in common the production of gas from the Council Grove Group of rocks. The new fields combined are **Hattie**, **Panoma North**, **Panoma Northeast**, and **Ulysses** in Grant County; **Hattie Northeast** in Kearny County; and **Panoma South**, **Panoma Southwest**, and **West Center** in Stevens County. These counties are three of the nine counties that constitute the **Hugoton Gas Area**, where by definition rocks of the Chase Group (next above the Council Grove Group) are the reservoir.

In the new **Horace South** field in Meade County both the Toronto and Council Grove were named as producing zones in the newly discovered field. In the **Kinsler** field in Morton County the St. Louis (Mississippian) and Des Moinesian (Pennsylvanian) rocks were dual-completion gas zones during the year. In the **Wilburton** field, also in Morton County, the Morrowan and Topeka were dual-completion gas zones.

TABLE 12.—Production from Kansas part of Hugoton Gas Area, 1944-1959

Year	M cu. ft. gas (14.65 psia)	Year	M cu. ft. gas (14.65 psia)
1944	92,922,821	1952	375,081,748
1945	90,345,203	1953	387,635,243
1946	119,637,983	1954	346,732,192
1947	157,663,036	1955	394,257,153
1948	185,872,594	1956	381,874,779
1949	247,868,876	1957	396,889,199
1950	320,545,480	1958	349,263,723
1951	371,002,475	1959	404,764,021

The Hugoton Gas Area.—The **Hugoton Gas Area**, including its extension across the Oklahoma “strip” into the Texas Panhandle, is regarded as one of the world’s largest known gas reserves. Production by years from the Kansas portion of the field is shown in Table 12.

The Defenders and Traders Gas Company gas well in sec. 3, T. 35 S., R. 34 W., Seward County, has been accredited as the discovery well of the **Hugoton Gas Area** proper in 1922. 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 in the field passed the 2,000 mark and the area encompassed 2 million acres. At the end of 1959, there were 3,906 producing gas wells, and the area of the Kansas part of the **Hugoton Gas Area** was about 2,673,000 acres. It is 60 miles wide and 85 miles north-south, and includes two entire counties (Stevens and Grant) and parts of seven others (Finney, Hamilton, Haskell, Kearny, Morton, Seward, and Stanton). Revised figures on the number of wells drilled each year since 1952 and cumulative totals are given in Table 13.

Through the assistance of the Conservation Division of the State Corporation Commission and Dwight’s Oil and Gas Reports, county production figures and county cumulative totals have been prepared for this bulletin. These data are given in Table 14.

The **Hugoton Gas Area** has been limited by definition by the Nomenclature Committee of the Kansas Geological Society to gas producing formations in the Chase group of the Permian System. These zones are the Fort Riley, Towanda, Winfield, Krider, and Herington Limestones. Porosity seems to control productivity. Plate 3 shows the approximate boundary of the area

TABLE 13.—Gas wells drilled in Hugoton Gas Area since 1952, by county

	1951	1952	1953	1954	1955	1956	1957	1958	1959	
County	Cumulative	Drilled	Drilled	Drilled	Drilled	Drilled	Drilled	Drilled	Cumulative	Cumulative
Finney	228	49	73	72	49	49	58	29	607	25
Grant	527	29	6	5	3	2	7	0	579	4
Hamilton	15	8	10	4	0	2	5	0	44	0
Haskell	285	30	27	39	40	19	0	0	440	2
Kearny	382	75	72	44	27	26	14	0	640	2
Morton	206	27	31	14	9	20	7	4	318	1
Seward	231	10	19	42	21	18	7	13	361	2
Stanton	176	7	27	24	0	0	2	6	242	0
Stevens	701	17	4	20	5	10	10	4	771	4
Total	2,751	252	269	264	154	146	110	56	4,002	40

as outlined at the end of 1959; gas wells drilled previous to 1959 are not shown.

Wells having initial potential of less than 1 million cubic feet per day after acidization are regarded as small, and those producing more than 30 million cubic feet of gas per day are big. The average depth to the producing zones is about 2,500 feet. The field has a water drive, and shut-in pressure from selected wells averaged 350 pounds per square inch. Porosity ranges from 13 to 18 percent. Permeability is low and irregular.

As the **Hugoton Gas Area** is under proration, commonly only one well may be drilled in each 640 acres, and allowable production for wells or groups of wells is established on a monthly basis in a manner designed to conserve the gas supply. Because

TABLE 14.—County production and cumulative total, Hugoton Gas Area*

County	Cumulative production to end of 1958, M cu. ft.	1959 production, M cu. ft.	Cumulative production to end of 1959, M cu. ft.
Finney	332,642.819	44,291.434	376,934.253
Grant	930,072.169	90,869.682	1,020,941.851
Hamilton	30,531.419	4,254.341	34,785.760
Haskell	338,298.624	28,579.217	366,877.841
Kearny	656,482.839	69,576.597	726,059.436
Morton	291,691.354	25,908.358	317,599.712
Seward	220,362.193	20,149.271	240,511.464
Stanton	134,764.084	17,656.063	152,420.147
Stevens	1,674,871.788	103,479.190	1,778,350.978
Total	4,609,717.289	404,764.153	5,014,481.442

* Base 14.65 psia.

of this wide spacing, there is little surface evidence of this huge gas reservoir.

Gas from the **Hugoton Gas Area** is of fairly good quality (Table 15), having a heating value of about 1,000 B.t.u. per cubic foot, and in addition yields about 0.5 gallon of natural gasoline condensate per thousand cubic feet. Many of the natural gasoline plants are within the borders of the area, as are the two operating carbon black plants.

TABLE 15.—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.—The helium production in Kansas declined from 25,858,000 cubic feet in 1958 to 24,004,300 cubic feet in 1959. Shipments of helium were 21,642,500 cubic feet valued at \$342,618.70. Price and production of helium are controlled by the federal government. Federal agencies pay \$15.50 per thousand cubic feet at the production plant plus 0.45 cents per cylinder filling charge for shipments made in cylinders. Other users pay \$19.00 at the plant and an additional \$2.00 per thousand cubic feet filling charge for helium supplied in standard cylinders. The Kansas helium is processed in the U.S. Bureau of Mines plant at Otis, Rush County. The gas is extracted from helium-bearing natural gas from various wells in Barton, Pawnee, and Rush Counties. Helium-contributing gas fields include the **Otis-Albert** field in Rush and Barton Counties, the **Ryan** field in Rush and Pawnee Counties, the **Pawnee Rock** field in Pawnee County, the **Reichel** field in Rush County, and the **Behrens** and **Unruh** fields in Barton County. Three fields formerly producing helium, **Ash Creek** in Pawnee County and **Dundee** and **Bergtal** in Barton County, have been abandoned.

Gas pipelining.—Natural gas pipeline construction during 1959 was extensive in Kansas. Cities Service Gas Company laid 21.5 miles of 30-inch line from Welda to Princeton, and 25 miles of

12-inch line from Hutchinson to Ellsworth. Cities Service also completed 10.5 miles of 12-inch replacement pipe and 14.7 miles of 12-inch loop pipe from Hutchinson to Ellsworth. They completed 7.2 miles of 16-inch loop near Fort Scott and 4.4 miles of 16-inch replacement west of Lawrence.

Northern Natural Gas Company had several projects under construction in Kansas during 1959. These include 11 miles of 30-inch line from Clifton to Tescott, 8 miles of 30-inch from Tescott to Bushton, and 8 miles of 30-inch along a line from Beaver, Oklahoma, to Mullinville, Kansas.

Panhandle Eastern Pipeline Company completed 16 miles of 10-inch, 13 miles of 6-inch, 40 miles of 4-inch, and 1 mile of 2-inch gathering lines in the Hugoton field in southwestern Kansas during 1959.

Kansas-Nebraska Natural Gas Company completed 15.5 miles of 12-inch loop in northwestern Kansas during 1959.

The first satellite compressor station on the Cities Service Gas system near Sublette was put in operation during the year. It will be controlled from the Hugoton station 13 miles away (Oil and Gas Journal, August 24, 1959).

Three compressor-station installations were made by Kansas-Nebraska Natural Gas Company in Kansas during the year. These are 1,800 horsepower at Quinter, 950 horsepower at Holcomb, and 950 horsepower at Palco.

Iowa Farm and Supply Company of Des Moines, Iowa, bought the Midland Cooperative, Incorporated, interest in the National

TABLE 16.—Underground gas storage

Company (field or area—county)	Capacity, M cu. ft.			Zone
	Working gas	Cushion gas	Total reservoir	
Cities Service Gas Company				
Alden—Rice (pending)	5,000,000	10,857,469	15,857,469	"Misener"
Boyer—Butler	392,279	627,588	1,019,867	Wabaunsee
Colony—Anderson	4,148,104	5,055,561	9,203,665	"Colony"
Craig—Johnson	1,557,945	4,517,875	6,075,820	"Bush City"
Elk City—Elk	4,500,000	15,500,000	20,000,000	"Burgess"
McLouth—Jefferson and Leavenworth	5,212,337	7,701,420	12,913,757	"Bartlesville"
Piqua—Allen and Woodson	1,551,042	1,679,430	3,230,472	"Colony"
Welda North—Anderson	4,521,646	5,500,000	10,021,646	"Colony"
Welda South—Anderson	5,313,617	6,475,569	11,789,186	"Colony"
Consolidated Gas Utilities Corporation				
Collinson—Cowley	647,270	425,730	1,073,000	
Union Gas System, Inc.				
Buffalo—Wilson	2,524,175	4,130,583	8,250,000	Iola
Fredonia—Wilson				"Layton"
Liberty South—Montgomery				"Squirrel"
Liberty North—Montgomery				"Squirrel"
Longton—Chautauqua				"Layton"
Total	31,635,125	62,471,225	99,434,882	

Cooperative Refinery Association, which operates a 30,000-barrel refinery at McPherson.

The Northern Natural Gas Company expansion program in Kansas included the addition of 2,000 horsepower at Clifton, and 2,000 horsepower at Mullinville and Bushton.

Gas storage.—Because of the seasonal demand for natural gas, storage of gas during the slack seasons has been developed. Table 16 gives the location and capacity of various Kansas projects.

NATURAL GAS LIQUIDS

Kansas production of natural gas liquids during 1959 was 232.8 million gallons, 7.6 million gallons more than during 1958. The value of natural gas liquids (natural gasoline, propane, butane, and other liquefied petroleum gases) produced during 1959 was \$12,252,202. The 3.4 percent increase in production compares with a 1.9 percent increase in value over the previous year. There were 14 natural gasoline plants reported operating in Kansas at the end of 1959. Texaco, Incorporated, ceased operations of their Atlanta, Cowley County, plant in 1959. The daily average production of natural gasoline and LPG in 1959 was 15,189 barrels compared to 14,689 for the previous year (Table 17). The output

TABLE 17.—*Natural gasoline and LPG processed in 1959**
(From the Conservation Division, Kansas State Corporation Commission)

Operator and plant location	Natural gasoline	Butane	Propane	LPG	Total
Cities Service Oil Company					
Burton, Reno County	40,000		22,000	38,000	100,000
Wichita, Sedgwick County	406,000	375,000	306,000		1,087,000
Colorado Interstate Gas Company					
Lakin, Kearny County	78,865				78,865
Plateau Natural Gas Company					
Cheney, Sedgwick County	15,325			7,573	22,898
Dunn-Mar Oil & Gas Company					
Otis, Rush County	19,010	1,952			20,962
Hugoton Production Company					
Ulysses, Grant County	152,511	168,849	174,974		496,334
Kansas-Nebraska Nat'l Gas Company					
Deerfield, Kearny County	132,281		13,932	10,275	156,488
Northern Natural Gas Company					
Holcomb, Finney County	79,581				79,581
Sublette, Haskell County	168,138				168,138
Pan American Petroleum Corp.					
Ulysses, Grant County	474,862	599,508	427,211		1,501,581
Panhandle Eastern Pipe Line Co.					
Liberal, Seward County	505,408	222,027	126,039		853,474
Skelly Oil Company					
Medicine Lodge, Barber County	111,279		89,201		200,480
Socony Mobil Oil Company, Inc.					
Ulysses, Grant County	185,693	47,585	91,939		325,217
Spivey, Kingman County	185,412	92,254	175,299		452,965
The Texas Company (Texaco, Inc.)					
Atlanta, Cowley County	Ceased operation in 1959				
Total	2,554,365	1,507,175	1,426,595	55,848	5,543,983
	Daily average for year 1959—15,189 bbl.				
	Daily average for year 1958—14,689 bbl.				

* 42-gallon barrels

TABLE 18.—*Production and estimated value of natural gas liquids in Kansas, 1959**

	Gallons	Barrels**	Price per bbl.	Value
Natural gasoline	107,283,330	2,554,365	\$2.31	\$ 5,900,583
Propane	59,916,990	1,426,595	2.21	3,152,775
Butane	63,301,350	1,507,175	2.06+	3,112,280
LPG	2,345,616	55,848	1.55	86,564
Total	232,847,286	5,543,983		\$12,252,202

* Production figures supplied by State Corporation Commission

** 42-gallon barrels

of natural gas liquids during 1959 and estimated value at the plant are shown in Table 18; production from Kansas plants for the last 12 years is shown in Table 19; plant capacity is given in Table 20.

TABLE 19.—*Kansas production of natural gasoline and allied products, 1948-1959**

Year	Production, thousand gal.	Year	Production, thousand gal.
1948	107,563	1954	193,783
1949	113,807	1955	206,621
1950	155,233	1956	199,384
1951	182,932	1957	223,618†
1952	196,462	1958	225,176
1953	211,657	1959	232,847

* Figure for 1948 from World Oil, 1951. Figures from 1949 through 1959 supplied by State Corporation Commission.

† Revised figure.

The use of natural gas liquids with natural gas in the production of carbon black decreased from 2,251,023 barrels in 1958 to 390,063 barrels in 1959.

Low-cost temporary storage is one of the major problems facing the expanding LPG industry. This problem, created by the seasonal demand for the product, has been partly solved in the last few years by injecting natural gas liquids into wholly or partly depleted reservoirs, which may have contained saltwater, gas, or distillate. Recently, and especially in Kansas, natural gas liquids have been stored in artificially formed underground cavities in salt beds. Location and capacity of these storage projects are given in Table 21.

The value of Kansas reserves of natural gas liquids is commonly overshadowed by the value of crude oil and natural gas. Natural gas liquids, consisting of natural gasoline, condensate, and LPG (mainly propane and butane), supplement supplies of

TABLE 20.—*Natural-gasoline-plant survey**

Location (field, county, and nearest town)	Capacity, million cu. ft. per day	Through- put, million cu. ft. per day	Products (gal. per day)		
			Combined natural gasoline and LPG stream	Total butane and lighter	Natural gasoline
Cities Service Oil Co.					
Various, Sedgwick (Wichita) ^a	120	107	.....	70,000	49,000
Burton-Stone, Reno (Burton)	5	4	.....	7,000	6,000
Colorado Interstate Gas Co.					
Lakin, Hugoton (Lakin)	215	79	.....	.....	10,636 ^b
Dunn-Mar Oil & Gas Co.					
Otis, Rush (Otis)	5 ^b	c	.....	1,000 ^b	4,000 ^b
Hugoton Production Co.					
Hugoton, Grant (Ulysses)	90	66	.....	30,000	20,000
Kansas-Nebraska Natural Gas Co., Inc.					
Hugoton, Kearny (Deerfield)	115	80	.....	5,000	15,000
Magnolia Petroleum Co.					
Hickok, Grant (Ulysses)	134	75.7	.....	20,886	21,434
Spivey, Harper (Attica)	45	33.2	.....	30,879	22,536
Northern Natural Gas Co.					
Hugoton, Seward (Sublette)	325	126	.....	.....	22,000
Hugoton, Finney (Holcomb)	185	124	.....	.....	9,900
Pan American Petroleum Corp.					
Hugoton, Grant-Stanton- Morton-Stevens (Ulysses)	325	167	.....	106,000	43,000
Panhandle Eastern Pipe Line Co.					
Hugoton, Seward (Liberal)	240	231	.....	38,919	63,003
Skelly Oil Co.					
Barber County	60	c	54,000 ^d	.....	.....
Total	1,864	.....	54,000	363,684	286,409
					776

* The Oil and Gas Journal, April 27, 1959

^a Located on gas-transmission line. Gas sources various fields.^b Adjusted to 12-psi. R.v.p. basis^c Not reported^d Combined stream is separated into products at the plant

TABLE 21.—Underground LPG storage*

Company, county, and type of storage	Capacity, bbl.	Product
Cities Service Oil Co.		
Reno—Salt layer (4 caverns)	235,000	Butane
Reno—Salt layer (6 caverns)	490,000	Propane
National Cooperative Refinery Assoc.		
McPherson—Salt layer (4 caverns)	200,000	Propane
McPherson—Salt layer (14 caverns)	675,000	Butane
Pan American Petroleum Corp.		
Grant—Salt layer (7 caverns)	180,000	LPG
Phillips Petroleum Company		
Kingman—Salt layer (4 caverns)	250,000	Butane Propane
Skelly Oil Company		
McPherson—Salt layer (12 caverns)	460,000	Propane
Tuloma Gas Products Co.		
Reno—Salt bed	250,000	Propane Butane

* The Oil and Gas Journal, September 28, 1959

gasoline for motor vehicles and fuel for industrial and domestic use. Natural gas liquids also have great potential use in the manufacture of plastics.

Natural gas liquids pipelining.—A LPG natural gasoline line (28 miles of 4-inch pipe) was built during 1959 by Okan Pipeline Company from their Mocane plant in Beaver County, Oklahoma, to the Liberal, Kansas, station (Oil and Gas Journal, April 13, 1959).

Part of the 279 miles of 6-inch extension of the Kaneb products line from Kansas to Nebraska and South Dakota was started during 1959. The line runs from Phillipsburg (Cooperative Refinery Association refinery) into Nebraska.

CARBON BLACK

Production of carbon black during 1959 was reported as 91,644,160 pounds, valued at \$6,387,598. This is an increase in production of 16,200,410 pounds and an increase in value of \$1,126,456 from the previous year (Table 22).

TABLE 22.—Quantity and value of carbon black produced in Kansas in 1958 and 1959

Year	Carbon black produced		Estimated fuel consumed	
	Quantity, lb.	Value	Gas, billion cu. ft.	Nat. gasoline, million bbl.
1958	75,443,750	\$5,261,142.	3.26	2.25
1959	91,644,160	\$6,387,598.	4.62	0.39

The Conservation Division of the State Corporation Commission reports that use of natural gas in the manufacture of carbon black in Kansas during 1959 was 4,624,404 thousand cubic feet, an increase of 1,361,434 thousand cubic feet from the previous year.

Carbon black was produced by the furnace process by the Columbian Carbon Company at Hickok and by United Carbon Company at Ryus in Grant County.

RESERVES

Kansas proved reserves of liquid hydrocarbons (crude oil plus natural gas liquids) as of December 31, 1959, were 1,114,415,000 barrels, a decrease of 0.7 percent from the previous year; nationally, reserves increased 4.1 percent. Kansas proved reserves of crude oil were 917,503,000 barrels at the end of 1959, a decrease of 0.5 percent; national reserves increased 3.9 percent.

Proved reserves of natural gas in Kansas at the end of 1959 were estimated to be 19,981,403 million cubic feet, a decrease of about 1.2 percent. Kansas proved reserves of natural gas liquids, 196,912,000 barrels, are 1.3 percent less than in the previous year (Table 23). All estimates of reserves are taken from the American Petroleum Institute and American Gas Association's annual report on reserves.

TABLE 23.—Kansas proved reserves of natural gas and natural gas liquids, December 31, 1959

	Reserves* as of 12-31-58	Extensions and re- visions, 1959	Discoveries, 1959	Production during 1959	Proved reserves, 12-31-59	Nonassoc- iated, associ- ated, and dissolved	Difference in reserves, 1958-1959	Percentage change, 1958-1959
Natural gas liquids	199,552	3,210	623	6,473	196,912	.....	-2,640	-1.3
Natural gas	20,233,847	279,359	97,365	639,063	19,981,403	19,918,701	-252,444	-1.2

From the American Petroleum Institute and American Gas Association, 1959

* 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.

It is emphasized that the published petroleum reserve figures represent proved reserves. The figures in Table 23 and other reserve figures used in this bulletin do not include (1) oil under the unproved portions of partly developed fields; (2) oil in untested prospects; (3) oil that may be present in unknown prospects in regions believed to be generally favorable; (4) oil that

may become available by fluid injection methods from fields where such methods have not yet been applied; (5) oil that may become available through chemical processing of natural gas; and (6) oil that can be made from oil shale, coal, or other substitute sources. The policy of the Reserves Committee applies also to natural gas and natural gas liquids.

STATISTICAL TABLES

The presentation of data on oil and gas developments in Kansas during 1959 (this bulletin) differs considerably from that of most previous annual development reports. In the following tables are found statistical data on oil and gas developments in Kansas on a statewide basis. Because their producing areas are less continuous than those elsewhere in the state, eastern Kansas fields (Table 31) have been subdivided into lesser producing areas labeled a, b, c, etc., in the table as well as on the corresponding map plate. No attempt has been made to list production by producing zone within these subdivisions.

TABLE 24.—Summary of 1959 operations, by county

County	No. of prod. fields	Map plate no.	Wells drilled in 1959					Reworked wells					Total new wells drilled†	No. of estimated wells*							
			Oil prod., bbl.	Gas prod., M cu. ft.	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	10	1	979,234	109,967	74			4												392	314
Anderson	8	1	488,405		18			5												56	33
Barber	57	2	1,640,686	55,081,079	16	26	3		15	37	1									82	
Barton	146	2	11,404,683	1,018,705	118	1		5	5	108	6									232	
Bourbon	5	1	29,146	1,560	3			2												1	
Butler	78	1	7,929,366		171			72	20	108	3									16	11
Chase	3	1	112,839	29,685	7			13	13	19										368	17
Chautauqua	26	1	934,559	171,540	23			5		2										27	1
Cherokee	1	1		1,720																104	74
Cheyenne	4	3	16,344		5			13	15											20	
Clark	13	3	191,621	6,897,840		9		2	4			1								15	2
Clay	1	1	15,218					3	5											6	1
Cloud	2							1	1											2	1
Coffey	10	1	110,952	1,239				5	1											6	
Comanche	5	2	27,167	1,507	1				4	6										7	
Cowley	102	1	3,858,450	1,320,315	106	1	3	7	17	118	6	1	1	1	8	8	2			251	16
Crawford	6	1	37,532	38,927	36			54												156	66
Decatur	12	3	364,390		5				14	19										24	
Dickinson	4	1	75,549		2				5	7					1					24	
Douglas	2	1	26,885		8										1					10	1
Edwards	20	2	684,247	1,681,798	53	11	5		11	37	2	2			3	3	1			49	40
Elk	33	1	254,393	173,767	12				4	10										106	
Ellis	129	2	11,222,654		110			2	15	136	17				1	5	17	1	1	44	22
Ellsworth	15	2	2,150,085		4			12	21						2					261	13
Finney	14	3	1,173,857	44,291,434	30	27			9	16					1	3	2			26	1
Ford	2	3	124	310,929		1			4											73	
Franklin	5	1	294,360		22			56		4							1			5	99

TABLE 24.—Summary of 1959 operations, by county, concluded

County	No. of prod. fields	Map plate no.	Wells drilled in 1959					Reworked wells					Total new wells drilled†	No. of estimated wells*							
			Oil prod., bbl.	Gas prod., M cu. ft.	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
Geary	2	1			1				4	8						2				9	1
Gove	5	3	12,866						3	3						1				4	4
Graham	91	3	6,889,023		85			1	18	103				2	1	9		1	2	189	6
Grant	4	3	2,691	90,869,682	2	5			3	5			3			5		4		18	6
Greeley	3	3							1	1						1				1	1
Greenwood	56	1	5,844,543		166			29	4	72						1				319	52
Hamilton	7	3	15,867	4,254,341					5	5						2				7	1
Harper	16	2	1,171,010	4,839,145	27	2	17	1	9	22				1	1	2		1		71	2
Harvey	13	2	391,758	372,535	12		1	1	12	29					2	1				44	1
Haskell	8	3	774,819	28,702,647	16	3	1		3	10						3		1		33	3
Hodgeman	12	3	298,382		12				11	16						4				30	2
Jackson	1	1							2	2										2	2
Johnson	3	1	3,326	57,297	3	2			1	12										28	11
Kearny	5	3	77,052	69,576,597	1	4			3	3						1		2		8	
Kingman	28	2	2,948,419	15,351,781	52	13	18	1	11	47			1	1	3	3		1		131	
Kiowa	17	2	826,186	2,617,650	14	1			11	18						1		1		33	
Labette	11	1	119,761	68,760	7			3	2	10										35	15
Lane	3	3								2										2	
Leavenworth	1	1	1,786	8,910																1	
Lincoln	6	1	71,922	356	1			2	1	1										14	11
Linn	1	3	652		1				3	3						1				4	
Logan	7	1	182,007					2	6	11										13	
Lyon	37	2	3,700,428	430,808	65			1	11	61				4	5	3		1		134	6
McPherson	25	1	3,109,638	508,843	187	3		10	23	69						5				269	
Marion	1	1							3	3										3	
Marshall	28	3	1,041,390	12,738,162	7	33	5		5	28			1		2	8				73	
Meade																					

* Based on intents-to-drill filed with Kansas State Corporation Commission, and included in total new wells drilled.
† Includes estimated wells shown in adjacent column.

TABLE 25.—Oil and gas pools discovered in Kansas during 1959

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production, bbl. per day
Barber County					
Bloom North	Aylward Drlg. Co.	Mississippian	4234-4254	Dec.	97
NE NE NE 14-32-12W	No. 1 Smith				
Ils Southwest	Lario Oil & Gas Co.	Douglas	3766-3770	Sept.	10,000,000
NE NW NE 17-31-11W	No. 1 Axline**				cu. ft. gas
Lake	Coppinger Drlg., Inc.	Arbuckle	4764-4769	Oct.	77
SE SE NE 26-31-14W	No. 1 Lake				
Palmer West	Great Lakes Carbon Corp.	Mississippian	4552-4558	Mar.	2,850,000
SE SE NE 25-32-14W	No. 1 Rinke				cu. ft. gas
Barton County					
Burmeister	Nadel & Gussman, et al.	Douglas	2982-2988	Dec.	25
NW SE SW 33-19-11W	No. 1 Burmeister				
Cheyenne	Thunderbird Drlg., Inc.	Lansing	3265-3272	Dec.	182
NE SW NW 4-19-12W	& Coop. Refg. Ass'n.				
	No. 1 Lucas				
Deines	Irv Hardman	Lansing	3332-3336	July	27
NW NW SW 16-16-14W	No. 1 Deines				
DeWerff	E. K. Edmiston	Arbuckle	3499-3504	Apr.	119
NE NW NW 32-20-12W	No. 1 DeWerff (Combined with Rolling Green East)				
Feist North	Thunderbird Drlg., Inc.	Arbuckle	3411-3415	July	35
NW NW SE 20-18-11W	No. 1 Barnes "A"				
Finn	W. H. Pitts	Arbuckle	3335-3339	July	5
SW NW SW 31-17-13W	No. 1 Chuck Finn				
Galatia East	Central Commercial Co.	Lansing	3185-3193	May	107
NE SE SW 12-16-15W	No. 1 Karst				
Haberman	Bergman Oil Co.	Arbuckle	3404-3406	Sept.	28
NE NW NE 32-18-13W	No. 1 Haberman				
Hammeke West	Nadel & Gussman	Lansing	3150-3153	Apr.	455
SW NE NW 18-19-11W	No. 1 Hammeke				
Hlavaty	Hellar Drlg Co., Inc.	Lansing-K.C.	3175-3178	May	195
SW NE SE 31-17-14W	No. 1 Hlavaty				
Hood	Kaiser-Francis	Lansing	3299-3301	July	29
SW SE SE 3-20-12W	No. 1 Hood				
Klepper North	Dunn-Gardner Drlg.	Lansing-K.C.	3189-3192	Dec.	25
NE NW NW 2-19-11W	Co., Inc.				
	No. 1 Musenberg				
Meadowside Northwest	Dunn-Gardner Drlg.	Arbuckle	3301-3305	Dec.	30
NE NE NE 23-18-11W	Co., Inc.				
	No. 1 Stoutt				
Ney Southwest	K & E Drlg., Inc.	Lansing	3100-3104	Feb.	166
NW SE NE 2-16-13W	No. 1 Rude "E"		3122-3125 3144-3147		
Redwing Southwest	Nadel & Gussman	Arbuckle	3328-3341	June	360
NE NE SW 1-18-13W	No. 1 Eveleigh "A"				
Sandrock North	Musgrove Petroleum	Lansing	3284-3295	May	265
SW SW NE 21-20-13W	No. 1 Adams				
Unruh South	Raymond Oil Co., Inc.	Arbuckle	3636-3637	July	45
NE NE SE 25-20-15W	No. 1 Unruh				
Wondra North	Wilkinson Drlg., Inc.	Arbuckle	3310-3323	Dec.	174
SE SE SW 10-17-12W	No. 1 Wondra				
Butler County					
Berndsen	A. D. Allison	Simpson	2438-2440	May	88
SE NE SW 15-26-4E	No. 1 Berndsen		2433-2448	1958	
Elbing West	E. H. Adair Oil Co.	Mississippian	2502-2520	Dec.	87
SW SW SW 13-23-3E	No. 1 Guinty (Combined with Paulson Northeast)				
Entz	Cities Service Oil Co.	Simpson	2515-2519	Apr.	85
SW SW NE 23-26-4E	No. 1 Entz				
Latham	H & M Drlg. Co.	Mississippian	2804-2818	Sept.	16
NE NW SW 14-29-7E	No. 1 Bennett				
Paul	Red Drilling Co., Inc.	Mississippian	2732-2735	Sept.	30
SW SW SE 26-25-3E	No. 1 Paul				
Wiebe	Red Drilling Co., Inc.	Lansing	1594-1600	Feb.	8
SW SW NW 30-23-6E	No. 1 Wiebe "A"***				

TABLE 25.—Oil and gas pools discovered in Kansas during 1959, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production, bbl. per day
Chase County					
Koegeboehn NE NE NE 19-19-6E	Anderson-Prichard Oil Corp. No. 1 Koegeboehm	Viola	2052-2073	Nov.	17
Chautauqua County					
McGlasson West NW NW NE 10-33-9E	Coop. Refg. Ass'n. No. 2 Bever "A"	Mississippian	2309-2312	Oct.	23
Cheyenne County					
Alexander CSE SW 13-4-38W	Saffa & Brauer No. 1 Weaver	Marmaton	4765-4770	Dec.	84
Ken E ₂ SE NW 16-2-37W	Phillips Petroleum Co. No. 1 Wilkens "A"	Cherokee	4768-4796	Mar.	83
Rueb South CNW NE 36-3-42W	R. G. Lawton No. 1 Liebbrandt	Lansing	4503-4510	Dec.	95
Clark County					
Clark Creek C NW NW 8-35-22W	The Pure Oil Co. No. 1 Tuttle "D"	Morrowan	5630-5638	Dec.	1,300,000 cu. ft. gas
Sitka C NE SW 13-33-22W	John Booth, et al. No. 1 Mary L. McMinimy Unit	Morrowan	5266-5272	Oct.	11,000,000 cu. ft. gas
Snake Creek Northeast C SE NW 13-34-21W	The Pure Oil Co. No. 1 Harper "E"	Morrowan	5444-5480	May 1957	2,820,000 cu. ft. gas
Snake Creek Southwest C SE SE 30-34-21W	Sinclair Oil & Gas Co., et al. No. 1 M. C. Campbell	Morrowan	5526-5540	Nov.	7,000,000 cu. ft. gas
Cowley County					
Elrod East E ₂ NW NE 3-32-5E	Toco No. 1 Lowe	"Layton"	2341-2344	Oct.	30
Estep West NE NE NW 29-34-6E	J. D. White No. 1 Mosier**	Mississippian	3138-3146	May	30
Gibson East NE NW SW 27-34-3E	Hallmark Petro. & Drlg. Corp. No. 1 Barton**	"Stalnaker"	2169-2170	Aug.	2,900,000 cu. ft. gas
Hackney North SE SE NE 18-33-4E	Red Drilling Co., Inc. No. 1 Knepper**	Mississippian	3239-3245	Apr.	5
Lauppe NW SW NW 6-32-6E	Saffa-Brauer & Crisswell No. 1 Lauppe	"Burgess"	3081-3089	Aug.	10
Lovell SE SE SW 9-35-3E	Richard King, et al. No. 1 Lovell	"Bartlesville"	3460-3464	May	60
Mansur Southwest NW SE SE 26-31-6E	Jefferson Davis No. 1 Underwood**	"Layton"	2209-2212	June	10
Shannon NW SW NE 26-31-5E	Gralapp & Everly No. 1 Shannon	"Layton"	2317-2320	Dec.	334
Decatur County					
Prairie Dog NE SE SW 29-5-29W	K & E Drlg., Inc. No. 1 Anderson "D"	Lansing	4034-4039	Dec.	99
Vavroch SE SE NE 4-4-28W	Halliburton Oil Prod. Co. & Burch Drlg. Co., Inc. No. 1 Vavroch	Lansing-K.C.	3776-3784	Dec.	140
Edwards County					
Bradbridge Southwest NE NE NW 11-24-16W	Branine-Holl No. 1 Klein**	Arbuckle	4120-4125	July	3,223,000 cu. ft. gas
English SW SW NW 31-25-16W	Cities Service Oil Co. No. 1 English	Mississippian	4477-4484	Aug.	171
Hawley SE SE NW 7-24-16W	Branine & Holl No. 1 Hawley "A"	Mississippian	4248-4266	Apr.	8
Ellis County					
Air Base East SE NW SW 25-13-16W	Hinkle Oil Co. No. 1 Brungardt	Lansing	3280-3284 3312-3316	Dec.	38

TABLE 25.—Oil and gas pools discovered in Kansas during 1959, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production, bbl. per day
Blue Hill Northeast W½ NW SE 36-11-16W	Davis Bros. & Transit Corp. No. 1 Chrisler "H"	Lansing	3099-3248	Sept.	15
Blue Hill Southeast NW SW NW 24-12-16W	Leo J. Dreiling Oil Co. No. 1 Dreiling "G"	Arbuckle	3343-3350	Dec.	83
Burnham SE NW SE 11-14-18W	Murfin Drlg. Co., et al. No. 1 Burnham Unit	Arbuckle	3592-3604	Dec.	Oil
Herzog South NW NE NW 5-14-16W	Burch Drlg. Co., Inc. No. 1 Kuhn	Lansing	3254-3260	Apr.	101
Heyl Southeast SW SW NW 21-14-17W	B. F. Ash No. 1 Stecklein	Arbuckle	3511-3520	Dec.	40
Holz NE NE NW 18-13-16W	Alpine Oil & Royalty Co., Inc. No. 1 Windholz	Lansing	3343-3348	Dec.	91
Kaiser NW SW SE 30-13-20W	B & B No. 1 Kaiser "B"	Lansing	3565-3570	May	70
Koblitz West NW NW SE 21-12-18W	Shields Oil Prod., Inc. No. 1 Madden	Lansing	3437-3444	Sept.	39
Leinmiller SW SE NW 2-12-19W	Alpine Oil & Royalty Co., Inc. No. 1 Leinmiller	Arbuckle	3697-3710	Dec.	202
Meistrell Southwest SW NW NE 9-11-18W	Petroleum, Inc. No. 2 Meistrell "D"	Lansing	3291-3295	Nov.	73
Potter Southeast SE NW SW 28-11-16W	Tomlinson-Kathol, Inc. No. 1 Nielson (Combined with Potter)	Arbuckle	3347-3358	Apr.	41
Ruder Southwest CN½ SW SW SE 18-15-18W	K & E Drlg., Inc., et al. No. 1 Linenberger	Arbuckle	3636-3640	Nov.	D & A
Turkville West SE NW SE 10-11-17W	Woodman-Iannitti Drlg. Co. No. 1 Richmond	Arbuckle	3379-3385	June	72
Younger Southwest SW NW NE 7-14-17W	Davis Bros. & Transit Corp. No. 1 Younger "A"	Arbuckle	3553-3565	Sept.	22
Younker SE SE NE 9-12-19W	Icer Addis No. 1 Younker**	Lansing	3547-3550 3631-3635 3672-3675	July	82
Zimm NW SE SW 23-13-20W	Petroleum, Inc. No. 1 Zimmerman "G"	Lansing	3478-3482	June	35
Finney County					
Ivanhoe C SE NW 17-26-33W	Shell Oil Co. No. 1-17 Stone	Morrowan	5021-5026	Oct.	39
Pleasant Prairie North C SW SE 7-26-34W	Champlin Oil & Refg. Co. St. Louis No. 1 Campbell (Combined with Pleasant Prairie)		5128-5140	Feb.	120
Wampler C SE SE 17-21-33W	Imperial Oil of Kans., Inc. Marmaton No. 1 Wampler		4278-4290	Sept.	855
Geary County					
Ge-See* SE SE SE 27-11-8E	E. H. Adair Oil Co. No. 1 Green	Cherokee	1749-1761	Oct.	20
Wingfield NW SE NE 35-11-7E	Jones-Gebert Oil Co. No. 2 Scott	Mississippian	1797-1804	Dec.	D & A
Gove County					
Grinnell NW NW NW 16-12-30W	Natl. Coop. Refg. Ass'n. No. 1 Wilson**	Mississippian	4508-4514	Sept.	16
Graham County					
Bryan C SW NW 9-10-24W	Murfin Drlg. Co., et al. No. 1 Herman	Lansing	3099-4003 4014-4016	Dec.	85
Erick East NW NW NE 14-10-25W	Imperial Oil of Kans., Inc. No. 1 Knoll "B"	Lansing	3773-3776	Feb.	287
Erick Southeast NE NE NW 23-10-25W	Empire Drlg. Co. & Natl. Coop. Refg. Ass'n. No. 1 Schreiner "C"	Lansing	3922-3928	Sept.	265

TABLE 25.—Oil and gas pools discovered in Kansas during 1959, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production, bbl. per day
Gra-Sher SE SW NE 6-10-25W	Kimbark Explor. Co. No. 1 Brungardt	Lansing	4028-4032	Dec.	198
Hoof East NW NW NW 14-10-23W	Murfin Drlg. Co., et al. No. 1 Davis-Diebolt	Lansing	3817-3827	Feb.	174
Lindenman SE SE SE 31-6-25W	Peel-Hardman Oil Oprs. No. 1 Lindenman	Lansing	3801-3835	July	340
Mt. Etna NW NW SW 11-7-23W	Imperial Oil of Kans., Inc. No. 1 Hale "B"***	Lansing	3803-3808	Feb.	212
Robin SE SE SW 18-10-22W	Woodman-Iannitti Drlg. Co. No. 1 Robinson	Penn. congl.	4036-4040	Feb.	81
Vesper North SE SE NW 23-9-23W	Burch Drlg. Co., Inc. No. 1 Goddard	Lansing	3772-3774	Sept.	57
Grant County					
Hattie C SW NE 7-27-37W	Northern Natural Gas Co. Council Grove No. 1 Anderson (Now called Panoma Gas Area)		2716-2722	Aug.	14,000,000 cu. ft. gas
Hick C SW 23-30-35W	United Producing Co., Inc. No. 1 Hickman	Mississippian	5460-5480	Sept.	75
Panoma Northeast C SE 13-30-37W	Hugoton Production Co. Council Grove No. 2-13 Dunne (Now called Panoma Gas Area)		2890-2894	Sept.	6,940,000 cu. ft. gas
Pollyana C SE SE 36-27-35W	Pleasant Prairie Oil, Inc. No. 1 Pollyana	Lansing	4129-4142	Sept.	200
Ulysses C SW NE 3-29-37W	Hugoton Production Co. No. 2 Nafziger (Now called Panoma Gas Area)	Council Grove	2683-2716	July	2,184,000 cu. ft. gas
Greenwood County					
Spencer SW NE SW 23-23-9E	Holly Oil Co. No. 1 Spencer	Mississippian	2406-2417	Aug.	21
Hamilton County					
Gould SW SW NE 30-25-41W	Coppinger Drlg., Inc. No. 1 Gould**	Morrowan	5120-5128	Sept.	68
Medway NE NE NE 16-24-41W	Hamilton Bros. No. 1-16 Tate "A"	Winfield	2305-2320	Dec.	1,000,000 cu. ft. gas
Harper County					
Crystal Springs C NE SW 18-32-7W	Mull Drlg. Co., Inc. No. 1 Zuercher	Mississippian	4420-4424 4432-4441	Nov.	3,750,000 cu. ft. gas
Zuercher SW SE SW 9-32-7W	Walters Drilling Co. No. 1 Zuercher	Simpson	4722-4735	July	132
Harvey County					
DuBois East SE NW SW 36-24-2E	J. P. Gaty No. 1 Ulmer	"Burgess"	2835-2845	July	10
Haskell County					
Eubank East C SE NE 23-28-34W	W. C. McBride, Inc. No. 1 Georgia Eubank	Morrowan-Chesteran	5337-5342	Sept.	87
Eubank North C SW NE 4-28-34W	R. W. Rine Drlg. Co. No. 1 Bell**	Morrowan	5363-5370	Apr.	66
Eubank Southeast C NE SW 35-28-34W	Coppinger Drlg., Inc. No. 1 Reimer	Lansing	4168-4174	Sept.	121
Hodgeman County					
Goebel NE NE NW 14-21-24W	Hinkle Oil Co. No. 1 Goebel	Mississippian	4433-4438	July	51
Jetmore East NE NW NW 30-22-23W	Imperial Oil of Kans., Inc. No. 1 Hayes "A"	Cherokee	4635-4638	Dec.	118
Nova SW SE NW 17-22-23W	Tennessee Gas & Oil Co. No. 1 Novotny	Mississippian	4635-4655	Sept.	3,000
Wieland North C NW SW 9-21-22W	Pickrell Drlg. Co. No. 1 Cox	Mississippian	4349-4359	Sept.	261
Kearny County					
Hattie Northeast C NE SW 27-26-37W	Northern Natural Gas Co. Council Grove No. 1 Broadhurst (Now called Panoma Gas Area)		2712-2749	Sept.	7,000,000 cu. ft. gas

TABLE 25.—Oil and gas pools discovered in Kansas during 1959, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production, bbl. per day
Klingman County					
Dale	Drillers Prod. Co., Inc.	Mississippian	3928-3935	Dec.	4,500,000
NE NE SW 35-28-6W	No. 1 Garnett				cu. ft. gas
Lock	Drillers Prod. Co., Inc.	Mississippian	4124-4133	May	40
C NW NW 13-30-7W	No. 1 Lock "B"				
Smoots Creek	Sunray-Mid-Continent	Kansas City	3652-3655	Dec.	113
SE SE NW 1-27-8W	Oil Co. No. 1 Stucky				
Kiowa County					
Nichols South	Rupp-Ferguson Oil Co.	Mississippian	4994-5044	May	2,000,000
C SE NW 8-30-18W	No. 1 Parkin				cu. ft. gas
Logan County					
Monument	Texas Crude Oil &	Lansing	4325-4329	Dec.	65
C NE NW 18-11-33W	J. O. Farmer, Inc. No. 1 Rohrs				
McPherson County					
Burch	Glickman Oil Co., et al.	Mississippian	2656-2666	Nov.	40
SW NE SE 32-17-1W	No. 1 Burch				
Gottland	J. S. Cling Oil Co.	Simpson	3641-3651	Aug.	5
SW SW NE 3-18-3W	No. 1 Finney**				
Larson Southwest	Koehn	Mississippian	2965-2979	Dec.	8
NE NW SE 4-19-2W	No. 1 Johnson				
Marion County					
Hillsboro East	Francis Haun	Mississippian	2408-2428	Dec.	823,000
NE NE NW 17-19-3E	No. 1 Sibbert				cu. ft. gas
Klenda	Allan Oldham & Assoc.	Mississippian	2355-2382	Dec.	40
SE SE NW 12-19-3E	No. 1 Klenda				
Klenda Northwest	Nemaha Petro., Inc.	Mississippian	2355-2409	Oct.	25
CN½ NW SE 2-19-3E	No. 1 Svitak				
Nonken	Beaumont Petro. Co.	Mississippian	2440-2453	Sept.	10
SW SW SW 28-22-4E	No. 1 Nonken				
Shank South	Crowe Drlg. Co., Inc.	Mississippian	2502-2508	Aug.	30
SE SE SE 13-22-3E	No. 1 Cooper				
Meade County					
Barragree	Skelly Oil Co.	Council Grove	3066-3106	May	13,434,000
C NW SE 25-34-28W	No. 1 Barragree				cu. ft. gas
Borchers	Skelly Oil Co. &	Morrowan	5719-5724	Dec.	901,000
C NE SW 21-33-28W	Shamrock Oil & Gas Corp. No. 1 Borchers				cu. ft. gas
Borchers North	Shamrock Oil & Gas Corp.	Morrowan	5544-5600	June	100,000,000
NW NW SE 5-33-28W	No. 1 Boyer				cu. ft. gas
Borchers Northwest	Skelly Oil Co.	Morrowan	5612-5620	Aug.	10,842,000
C SE SW 1-33-29W	No. 1 Evans				cu. ft. gas
Cimarron Bend	Carter Drlg. Co.	Mississippian	6076-6106	Nov.	2,109,000
SW NE 1-35-29W	No. 1 Adams Ranch				cu. ft. gas
Horace South	Texaco, Inc.	Toronto	4390-4402	Oct.	2,913,000
NW NW 26-34-29W	No. 1 H. G. Adams "B"	Council Grove	3228-3244		39,318,000
					cu. ft. gas
Novinger East	James Donoghue	Morrowan	5793-5879	Apr. 1957	2,800,000
C NE SW 36-33-30W	No. 2 Fox				cu. ft. gas
Thiessen	Shamrock Oil & Gas Corp.	Morrowan	5690-5699	Dec.	2,740,000
NW SW SE 8-33-27W	& Skelly Oil Co. No. 1 Thiessen				cu. ft. gas
Morris County					
Latimer	E. H. Adair Oil Co.	Mississippian	2156-2180	Nov.	10
NE NE NE 14-15-5E	No. 1 Abeldt				
Morton County					
Berryman	Panhandle Eastern	Wabaunsee	2897-2899	June	880,000
C NE 21-33-41W	Pipe Line Co. No. 1 Berryman "B"				cu. ft. gas

TABLE 25.—Oil and gas pools discovered in Kansas during 1959, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production, bbl. per day
Kinsler NW NW SE 33-31-40W	Pan American Petro. Corp. No. 1 Kinsler "C"	St. Louis Des Moines	5464-5466 4336-4338	Nov.	15,000,000 4,000,000 cu. ft. gas
Rolla C SE NW 22-34-40W	Hamilton Bros. No. 1-22 Mingenback	Lansing	4249-4259	Oct.	1,150,000 cu. ft. gas
Wilburton C SE NW 32-34-41W	Cities Service Oil Co. No. 1 Pearson "C"	Morrowan Topeka	4808-4820 3080-3245	May	9,400,000 8,500,000 cu. ft. gas
Ness County					
Franklin SE SE SE 25-19-24W	O. A. Sutton Oil Prop. & Inv. & Coop. Refg. Ass'n. No. 1 Boyd "A"	Ft. Scott	4278-4290	July	117
Guzzlers Gulch C NW SW 24-20-25W	Rupp-Ferguson Oil Co. No. 1 Copeland	Mississippian	4420-4426 4432-4436	Aug.	101
Norton County					
Horesky SE SE NW 15-3-23W	Burch Drilling Co., Inc. No. 1 Horesky	Arbuckle	3689-3698	Dec.	D & A
Pawnee County					
Carpenter Southeast NW NW SE 31-23-16W	Apache Oil Corp. No. 1 Schartz	Mississippian	4210-4220	Oct.	1,250,000 cu. ft. gas
Rice SE SE NE 12-23-15W	Petroleum, Inc. No. 1 Rice "B"	Arbuckle	4032-4038	Dec.	57
Phillips County					
Stony Point SW NW NE 18-5-20W	Shields Drlg. Co., Inc. & C & G Drlg. Co. No. 1 States	Lansing	3249-3258	Sept.	177
Van Dyke C NE SW 1-2-19W	Don Peaker No. 1 Van Dyke	Lansing	3477-3480	Nov.	5
Pratt County					
Moore West SE SE SE 4-26-14W	Dunne & Gardner Drlg. Co., Inc. No. 1 Henderson	Lansing	3945-3947	June	41
Park NW SE SW 14-27-11W	Messman & Rinehart Oil Co. No. 1 Park**	Lansing	3800-3804	Apr.	25
White C NE NE 35-27-15W	Murfin Drilling Co. No. 1 White	Cherokee	4471-4481	Dec.	2,000,000 cu. ft. gas
Rawlins County					
Arbor NE NE SW 17-4-33W	Amerada Petro. Corp. No. 1 Walters	Lansing	4053-4074	Apr.	80
Cahoj SE SE NE 17-1-34W	Skelly Oil Co. No. 1 A. S. Cahoj	Lansing	4052-4054 4065-4072	June	3,000
Kompus SW SW SW 33-1-32W	Skelly Oil Co. No. 1 Kompus "A"***	Lansing	4069-4072	Aug.	30
Wilhelm SE SE NW 20-1-32W	Skelly Oil Co. No. 1 Meyer	Lansing	4061-4070	Sept.	258
Reno County					
Plevna NE SW NW 15-24-9W	Kewanee Oil Co. No. 1 Dion	Mississippian	3765-3793	Apr.	1,100,000 cu. ft. gas
Stroud South CW½ SW SE 33-23-5W	Messman-Rinehart Oil Co. "Hunton" No. 1 Epperson		3728-3732	Sept.	51
Wisby South SE SE NW 19-22-9W	Globe Oil & Refg. Co. No. 1 Drake "B"	Simpson	3637-3650	Dec.	211
Rice County					
Mooney Southeast SW NE NW 8-19-10W	Icer Addis No. 1 Stoltz	Arbuckle	3328-3334	Dec.	120
Ponce Southeast NE NE SW 27-21-7W	Se Ro Bee Drlg. Co., Inc. No. 1 Howe	Mississippian	3419-3437	Apr.	6

TABLE 25.—Oil and gas pools discovered in Kansas during 1959, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production, bbl. per day
Riley County					
Yaeger NE SW SE 25-11-8E	Cities Service Oil Co. No. 1 Yaeger	"Hunton"	1683-1691	June	36
Rooks County					
Chesney SE NE SW 12-8-17W	Cities Service Oil Co. No. 1 Chesney "B"	Lansing	3089-3284	Apr.	435
Eilers SE NE SW 22-10-18W	Davis Bros., et al. No. 1 Eilers "B"	Lansing	3498-3554	May	155
Gra-Rook Northeast SE SW NW 17-9-20W	Thunderbird Drlg., Inc. No. 1 Pfannenstiel	Arbuckle	3769-3774	May	90
Ordway East C SE NW 21-10-18W	Davis Bros. No. 1 Ordway "F"	Toronto Lansing	3331-3336 3368-3375 3515-3535	Oct.	60
Schindler SW SW SW 17-8-17W	Murfin Drilling Co. No. 1 Schindler	Arbuckle	3329-3340	Feb.	23
Vohs Southeast CN½ SE SW 24-10-19W	Tom Allan No. 1 Whisman	Lansing	3408-3412	Dec.	42
Rush County					
Kober NE SE NE 18-19-20W	Thunderbird Drlg., Inc. No. 1 Kober	Cherokee	4324-4338	Nov.	139
Russell County					
Dreher NW NW SW 23-11-15W	Womer Oil Co. No. 1 Dreher	Arbuckle	3314-3324	Dec.	25
Hagerman NE SW SE 28-11-15W	Womer Oil Co. No. 1 Hagerman	Arbuckle	3273-3279	Aug.	36
Reich South SE NW SE 32-12-15W	A. F. Schmidt No. 1 McKune "B"	Lansing	3078-3084	Oct.	105
Saline County					
Ash Grove West NE NE NE 12-15-1W	Fred Drolte No. 1 Robson	"Burgess"	2619-2627	Apr.	25
Gillberg SW NW SE 28-14-2W	Pearl B. Jackson No. 1 Gillberg	Maquoketa	3223-3231	May	166
Scott County					
Shallow Water Northeast C NW NW 12-20-33W	Kewanee Oil Co. No. 1 Wasinger "A"	Cherokee	4608-4613	Dec.	10
Sedgwick County					
Fairview Northeast SE SE NE 4-26-2E	"B" Drlg. Co. No. 1 Feick	"Burgess"	2910-2917	July	D & A
Ulmer NW NW NW 28-25-2E	Petroleum, Inc. No. 1 Ulmer "J" (Abandoned and revived in 1959)	"Burgess"	2913-2923	Feb.	D & A
Ulmer South SW SW NE 33-25-2E	Ernst Development, Inc. No. 1 Miller	"Burgess"	2917-2921	June	180
Sheridan County					
Custer Northwest SW SW NE 2-10-26W	Kimbark Explor. Co. No. 1 Von Lintel	Lansing	3983-3986	Dec.	91
Parnell NE NE SW 30-7-29W	Empire Drlg. Co. No. 1 Curry	Lansing	3971-3977	Dec.	140
Studley South C NW SE 27-8-26W	Imperial Oil of Kans., Inc. No. 1 Pratt Estate	Lansing	3786-3788	May	30
Stafford County					
Childs C NE NE 17-25-15W	Strata Drlg., Inc. No. 1 Childs	Mississippian	4231-4236	July	4,800,000 cu. ft. gas
Grunder Southwest NW SE NW 15-25-15W	Houston Petro. Co. & Sierra Petro. Co., Inc. No. 1 Wiles	Lansing	3915-3918	Dec.	2,000,000 cu. ft. gas & 93
Haynes NW NW SE 22-25-15W	Isern Drilling Co. No. 1 Haynes	Mississippian	4254-4263	Feb.	46

TABLE 25.—Oil and gas pools discovered in Kansas during 1959, continued

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, feet	Month named	Initial production, bbl. per day
Haynes Southwest SW SW SW 27-25-15W	D. R. Lauck Oil Co., Inc. & Sunray Mid-Cont. No. 1 Frack Oil Co.	Cherokee	4254-4268	June	16,000,000 cu. ft. gas
Hickman West SE SW NE 33-21-14W	Hilton Drlg. No. 1 Krampe	Lansing	3608-3613	Sept.	75
Keeley NE NE SW 5-21-14W	Petroleum, Inc. No. 1 Keeley "B"	Lansing	3525-3530	June	80
Kelly West NE NE SE 34-23-12W	National Drlg. Co., Inc. No. 1 Hartnett	Lansing	3538-3544	Nov.	271
Koelsch West SE SE SW 23-24-14W	Nadel & Gussman No. 1 Koelsch	Lansing	3738-3742	Apr.	323
Praeger SW SW SE 36-24-15W	Wilkinson Drlg., Inc. No. 1 Praeger	Arbuckle	4394-4400	June	182
Rattlesnake North SW SW NE 2-24-14W	E. K. Edmiston No. 1 Curtis**	Penn. congl.	3974-3992	Oct.	245
St. John East SE½ E½ NW 24-24-13W	Chief Drlg. Co., Inc. et al. No. 1 McCune	Lansing	3568-3574	May	43
Taylor West SE SE NW 16-21-14W	Tomlinson-Kathol, Inc. No. 1 Laudick	Simpson	3720-3724	May	10
Waters East NE NE SE 33-24-14W	Thunderbird Drlg., Inc. No. 1 Waters	Lansing	3816-3820	Nov.	10
Stanton County					
Beauchamp C NE¼ 23-30-41W	Western Natural Gas Co. No. 1 Beauchamp	Mississippian	5338-5344	Nov.	456
Beauchamp East C NW SE 24-30-41W	Western Natural Gas Co. No. 1 Armstrong	Morrowan	5018	Dec.	11,500,000 cu. ft. gas
Shore NE NE SW 22-30-40W	Pan American Petro. Corp. No. 1 Shore Gas Unit "D"	Mississippian	5307-5356	Nov.	75
Stevens County					
Panoma South C NW NW 29-31-37W	Hugoton Production Co. No. 2 Grubb (Now called Panoma Gas Area)	Council Grove	2838-2980	Feb.	7,418,000 cu. ft. gas
Perrill C NW NW 7-31-37W	Panhandle Eastern Pipe Line Co. No. 1-7 Perrill	Morrowan	5326-5330	June	26,000,000 cu. ft. gas
Walkemeyer C NE SW 35-33-36W	Shell Oil Co. No. 1-35 Walkemeyer	Morrowan	6145-6180	Sept.	3,500,000 cu. ft. gas
West Center SE NW SW 23-32-39W	Panhandle Eastern Pipe Line Co. No. 2-23 Howell- Rhinehart	Council Grove (Now called Panoma Gas Area)	2794-2815	Apr.	1,150,000 cu. ft. gas
Sumner County					
Ashton Northwest CW½ SW SW 13-34-1E	Lario Oil & Gas Co. No. 1 Williamson "B"	Mississippian	3533-3545	Dec.	52
Attebery NW NW SE 20-33-1W	Walters Drlg. Co. No. 1 Attebery	Simpson	4282-4286	Dec.	49
Conway Springs SW SW SE 5-31-3W	Shawver-Armour, Inc. No. 1 Leis	Simpson	4370-4376	Oct.	1,683
Interchange C NE NW 19-32-1E	Lario Oil & Gas Co. No. 1 Ashton	Simpson	4052-4059	June	45
Kerley NE NE NW 1-30-1W	Mull Drilling Co., Inc. No. 1 Kerley	Simpson	3829-3835	Dec.	15
Moyer Northwest SE NE SE 2-31-3W	Shawver-Armour, Inc. No. 1 Clark	Kansas City	3312-3314	July	233
Rusk NE SW NE 8-32-1E	Lario Oil & Gas Co. No. 1 Rusk "B"	Simpson	4010-4020	Dec.	75
Trekell NE NE NW 19-31-1W	Beardmore Drlg. Co. No. 1 Trekell	Mississippian	3718-3727	Apr.	48
Walta SE SE NE 25-33-4W	Dorset Company No. 1 Walta	Simpson	4507-4512	Sept.	50

TABLE 25.—Oil and gas pools discovered in Kansas during 1959, concluded

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, ft.	Month named	Initial production, bbl. per day
Thomas County Lanisia C SW NE 12-6-35W	J. O. Farmer, Inc. & Musgrove Oil Co. No. 1 Brown	Tarkio	3739-3743	Dec.	211
Trego County Ellis Southwest SW SE SE 2-13-21W	Alva Oil Corp. No. 1 Deutscher	Arbuckle	3800-3808	Sept.	33
Wabaunsee County Wilmington SW NE NE 29-14-12E	Natural Gas & Oil Corp. No. 1 Harrold	Simpson	3124-3127	Apr.	88

* Field extends into adjacent county

** Old well worked over

TABLE 26.—Fields revived during 1959

County, pool, and location of revival well	Revival well	Producing zone	Production depth, ft.	Month revived	Initial production, bbl. per day
Barber County McReynolds C SE NE 19-31-10W	Walters Drlg. Co. No. 1 Inslee	Mississippian	4530-4532	Dec.	1,790,000 cu. ft. gas & 61
Barton County Feltess North SW NW NE 2-16-12W	Sterling Drlg. Co. No. 1 Weber	Arbuckle		Dec.	D & A
Butler County McCaig SW NE SE 13-28-6E	Augusta Oil Co., Inc. No. 1 McCaig	"Bartlesville"	2702-2704	Feb.	25
Edwards County Fatzner SW SW SE 14-26-17W	Strata Drlg., Inc. No. 1 Fisher	Mississippian	4530-4545	Apr.	1,000,000 cu. ft. gas & 40
Rooks County McMullen NE SW NE 33-8-17W	Martin Oil Co. No. 1 McMullen	Lansing	3224-3258	Oct.	35
Sedgwick County Ulmer SW SW SW 21-25-2E	E. H. Adair Oil Co. No. 1 Eck	"Burgess"	2912-2915	Dec.	25
Stafford County Glasscock NE NE SW 32-24-13W	Petroleum, Inc. No. 1 Belote	Lansing	3842-3852	May	330
Helene NE NE SE 17-22-12W	R. W. Shields No. 1 Stargel	Arbuckle	3691-3695	June	50

TABLE 27.—New oil or gas zones in old producing fields, 1959

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, ft.	Month of discovery	Initial production, bbl. per day
Barber County					
Palmer SE SE SE 19-32-13W	Sinclair Oil & Gas Co. No. 1 Palmer	Mississippian	4530-4552	July	730,000 cu. ft. gas & 130
Barton County					
Beaver North NE NE NW 4-16-12W	W. L. Hartman No. 3 Casey	Topeka	2880-2890	Nov.	39
Feist North SE SE NW 20-18-11W	Petroleum, Inc. No. 1 Straub "C"	Lansing	3242-3246 3304-3310	Dec.	30
Finn SW NW SW 31-17-13W	W. H. Pitts No. 1 Chuck Finn	Lansing	3158-3160	July	5
Hammeke West NE NE NW 18-19-11W	Nadel & Gussman No. 2 Hammeke	Arbuckle	3357-3363	May	286
Merten Northeast CW 1/2 E 1/2 SE 36-18-15W	Wilkinson Drlg., Inc. No. 3 Howell*	Lansing	3214-3216	Nov.	315
St. Peter NW SW NE 32-18-11W	Texaco, Inc. No. 10 Schlochtermeier	Penn. congl.	3408-3412	July	67
St. Peter NW SE NE 32-18-11W	Texaco, Inc. No. 10 Schlochtermeier	Shawnee	2910-2917	July	130
Butler County					
McCaig SW SW SE 13-28-6E	Augusta Oil Co., Inc. No. 3 McCaig*	Mississippian	2785-2814	Mar.	25
Cowley County					
Atlantic NW SW NE 11-30-6E	H. H. Blair No. 1 Blair "B"	Shawnee	1632-1639	Feb.	63
Otto SE SW SE 1-34-6E	Yount & Blair No. 1 Adams	"Stalnaker"	1845-1851	Dec.	10
Ellis County					
Blue Hill Northwest SW SW NE 2-12-16W	B & B No. 1 Oswald "C"	Lansing-K. C.	3230-3238	July	125
Blue Hill Northwest NW NE NE 10-12-16W	Leo J. Dreiling Oil Co. No. 3 Dickinson	Penn. congl.	3340-3377	June	93
Herbert SE NE SW 18-13-20W	B & B No. 1 Anderson	Lansing	3555-3559	Mar.	79
Lieb East NE NE SW 16-11-16W	Shields Oil Prod., Inc. No. 1 Craig*	Lansing	3010-3014	Mar.	30
Toulon Southwest NW SW NE 16-14-17W	Okmar Oil Co. No. 1 Dinkle "A"*	Lansing	3272-3280	Apr.	15
Graham County					
Wheeler SE SE SE 7-10-21W	D. G. Hansen No. 1 McElroy	Marmaton	3834-3843	June	80
Haskell County					
Eubanks C SE SW 20-28-34W	Northern Natural Gas Co. No. 1 Sprunger "E"	Marmaton	4699-4716	Jan.	1,800,000 cu. ft. gas & 8
Eubank C SE NE 20-28-34W	Northern Natural Gas Co. No. 1 Clark "C"	Morrowan	5335-5357	Apr.	145
Eubank East C SE NW 23-28-34W	Helmerich & Payne, Inc. No. 1 Eubank "E"	Morrowan-Chesteran	5332-5362	Dec.	186 260
Pleasant Prairie C NE NW 5-27-34W	White Eagle No. 5-4 Devlin-Jones	Morrowan	4996-5005	Mar.	59
McPherson County					
Ritz-Canton NW NE NW 4-20-2W	A. C. Akerson No. 1 Stucky	Maquoketa	3395-3398	Mar.	25
Meade County					
Adams Ranch SW NE 3-35-30W	Republic Natural Gas Co. No. 1 Fox	Toronto	4402-4408	1958	500,000 cu. ft. gas & 30
Borchers North C NE NE 7-33-28W	Shamrock Oil & Gas Corp. No. 3 Joe Fletcher	Marmaton	5082-5086	Oct.	1,440,000 cu. ft. gas
Plains C SE SE 17-32-30W	Thomas Brewer Oil & Gas No. 1 Baty	Mississippian	5692-5707	Aug.	500,000 cu. ft. gas & 77
Osborne County					
Worley NE SE SE 33-10-15W	Rudy Herman Oil Opera. No. 1 Worley	Penn. congl.	3409-3414	May	20

TABLE 27.—New oil or gas zones in old producing fields, 1959, concluded

County, pool, and location of discovery well	Discovery well	Producing zone	Production depth, ft.	Month of discovery	Initial production, bbl. per day
Pawnee County					
Bow SE NW NW 32-22-15W	Hellar Drig. Co., Inc. No. 1 Barstow "A"	Arbuckle	3966-3968	Dec.	18
Pratt County					
Eads SE SE SE 33-29-14W	Champlin Oil & Refg. Co. No. 1 Shriver	Viola	4516-4526	Apr.	62
Rawlins County					
Brumm NE SE SW 7-2-36W	Miami Operating Co. No. 1 Brumm "A"	Topeka	4170-4185 4250-4258 4262-4264 4266-4272	June	30
Waterman NW NW NW 23-4-33W	Miles Jackson No. 1 Ruda*	Lansing	3986-3990 4002-4006 4081-4087	Apr.	87
Rice County					
Mary Ida South SW SW NW 6-19-10W	Nadel & Gussman No. 1 Hass*	Lansing	3205-3209	Sept.	159
Mooney SE NE SW 6-19-10W	Icer Addis No. 2 Kowalsky	Lansing-K.C. (Combined with Mary Ida South)	3228-3232	Dec.	95
Riley County					
Yaeger SW SW NE 25-11-8E	Cities Service Oil Co. No. 3 Gehrt	Penn. congl.	1633-1643	Nov.	34
Rooks County					
Ellers SE NE SW 22-10-18W	Davis Bros & Transit Corp. No. 1 Eilers "B"	Arbuckle	3647-3654	May	104
Russell County					
Brundage South SE SE NW 16-12-15W	Globe Oil & Refg. Co. No. 2 Witt	Lansing	2998-3003	Apr.	37
Sedgwick County					
Chambers SE SW NW 14-29-2W	Brunson-Spines, Inc. No. 1 McMinn	Kansas City	2955-2960	Dec.	25
Seward County					
Kismet C SW SE 14-33-31W	Republic Natural Gas Co. No. 1 Stoddard	Morrowan	5635-5640	Dec.	10
Shuck C S½ NE 19-33-34W	Panhandle Eastern Pipe Line Co. No. 2-19 Guttridge	Mississippian	6040-6048 6238-6243	Mar.	100
Stafford County					
Albano SW NE NW 12-25-14W	Petroleum, Inc. No. 2 Bowker "B"	Viola	4107-4123	Dec.	220
Grunder SW SE SE 2-25-15W	Sierra Petro. Co., Inc., et al. No. 1 Barstow	Arbuckle	4425-4429	Oct.	100
Praeger NW NW NE 1-25-15W	Sierra Petroleum Co., Inc. No. 1 Waters-Grossman*	Mississippian	4209-4214	Oct.	146
Rattlesnake Southeast SE SE NE 13-24-14W	D. R. Lauck Oil Co., Inc. No. 1 Harrison "A"*	Mississippian	3938-3944	July	255
Sumner County					
Seydell NW NE SE 20-30-1E	Franco-Central Oil Co. No. 1 Foltz	Kansas City	2909-2915	July	567
Trego County					
Egger SE SE SW 12-13-21W	B & B No. 3 Eggers	Lansing-K.C.	3608-3614	Mar.	77
Groff SW SE NE 35-14-21W	Wickizer No. 2 Moore	Marmaton	3757-3774	Jan.	53
Riga Northeast NW SW NE 9-13-21W	Artnell Co. No. 1 Glass*	Lansing	3682-3710	Oct.	85
Wabaunsee County					
Wilmington C SE NE 29-14-12E	Natural Gas & Oil Corp. No. 2 Harrold	Viola	2995-3001	Sept.	72

* Old well worked over.

TABLE 28.—Fields abandoned in Kansas during 1959

County, pool, and location of discovery well	Discovery well	Producing zone			Cumulative production, bbl.	Year of discovery	Month of abandonment
		Name	Depth, ft.	Thickness, ft.			
Barber County							
Turkey Creek	20-30-15W	No. 1 Gypsum	Lansing-Kansas City Simpson	4,345 4,438	26	40.1	1943 February
Turkey Creek North	17-30-15W	No. 1 Gypsum "B"	Penn. congl.	4,541	12	.....	1952 February
Barlton County							
Voight	15-20-13W	No. 1 Voight	Arbuckle	3,487	13	39.5	1958 February
Edwards County							
Massey	3-24-17W	No. 1 Massey	Mississippian	4,289	3	.....	1957 April
Ellis County							
Stadelman	3-14-19W	No. 1 Stadelman	Lansing-Kansas City	3,721	10	36	1957 February
Graham County							
Dorman	30-10-23W	No. 1 Dorman	Lansing-Kansas City	3,921	7	32	1952 February
Dorman West	25-10-24W	No. 1 Billings	Lansing-Kansas City	3,954	6	.....	1955 February
Harper County							
Banner South	4-33-7W	No. 1 Hanness	"Misener"	4,848	3	46	1956 May
Kingman County							
Evan Mound	22-27-5W	No. 1 Dieffenbacher	Mississippian	3,800	16	37	1951 April
Kiowa County							
Quaker	10-27-19W	No. 1 Friends Univ.	Mississippian	4,789	....	.....	1958 February
McPherson County							
Moundridge Township	27-21-2W	No. 1 Krehblel "G"	"Hunton"	3,379	4	.....	1958 June
Pratt County							
Jen	28-29-13W	No. 1 Jen	Simpson	4,584	4	34.5	1957 February
Rooks County							
Hillside	12-8-20W	No. 1 Gosselin	Shawnee	3,206	8	28	1952 April
Sedgwick County							
Gladys Southwest	7-29-1E	No. 1 Deffner	Kansas City	2,828	1	37	1956 April
Stafford County							
Clarksburg	36-22-13W	No. 1 Long	Lansing-Kansas City	3,576	6	32	1955 February
Shepherd South	21-22-11W	No. 2 Sleeper	Arbuckle	3,602	11	40	1953 April

TABLE 29.—Fields combined in Kansas during 1959

County and name of field combined	Discovery well location	Producing zone			Year of discovery	Cumulative production, bbl.	Month of combination	Combined as part of
		Area, acres	Name	Depth, ft.	Thickness, ft.			
Barton County								
DeWerff	32-20-12W	40	Arbuckle	3,488	5	1959	December	Rolling Green East
Butler County								
Elbing West	13-23-3E	40	Mississippian	2,488	18	1959	April	Paulson Northeast
Cowley County								
Clark	6-31-4E	640	"Bartlesville"	2,840	20	1914	September	Rock
Crane	7-33-4E	320	Mississippian	3,252	10	1957	May	Graham
Dickinson County								
Lost Springs North	22-16-4E	.....	"Chat"	2,300	33	1945	January	Lost Springs
Lost Springs Northeast	26-16-4E	.....	"Chat"	2,300	....	1947	January	Lost Springs
Lost Springs Northwest	20-16-4E	.....	Mississippian	2,267	....	1955	January	Lost Springs
Edwards County								
Edstaff Northwest	35-24-16W	.....	Mississippian	4,286	6	1957	April	Belpre
J H M	33-25-16W	40	Penn.-Miss.	4,415	20	1958	June	Will
Will South	2-26-16W	80	Mississippian	4,401	22	1958	June	Will
Ellis County								
Potter Southeast	28-11-16W	40	Arbuckle	3,328	11	1959	July	Potter
Finney County								
Pleasant Prairie North	7-26-34W	40	St. Louis	5,050	12	1959	May	Pleasant Prairie
Pleasant Prairie N'west	30-26-34W	1,000	Mississippian	5,125	23	1956	May	Pleasant Prairie
Ford County								
Helmers	25-28-21W	.....	Mississippian	5,024	16	1953	February	Pleasant Valley
Graham County								
Mildrexter Southwest	11-9-23W	160	Lansing	3,776	17	1957	July	Mildrexter

^a Extends into Morris County
^b Estimated

TABLE 30.—Dry wildcat tests drilled in 1959

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet		
			Heebner	Lans- K.C.	Missis- sippian hook"	Viola	Simp- son		Ar- son buckle	
Barber										
D. R. Lauck Oil Co. No. 1 Coss	NW NW NW 16-30-11W	1,827	3,689	3,890	4,396	4,460	4,644	4,729	4,831	4,861
D. R. Lauck Oil Co. No. 1 Olson	NE NE SE 32-30-12W	1,809	3,676	3,870	4,330	4,422	4,530	4,629	4,740	4,787
Natural Gas & Oil Co. No. 1 Lambert	C NW SE 4-30-13W	1,866	3,719	3,915	4,380	4,409	4,468	4,580	4,672	4,706
N.C.R.A. & Murfin Drlg. No. 1 Weede	NW NW SE 6-30-14W	1,964	3,834	4,024	4,415 ^b	4,504 ^a	4,550	4,592	4,682	4,705
Rupp-Ferguson No. 1 Best	C NW NE 25-31-10W	1,616	3,518	3,735	4,404	.....	.....	.....	.....	4,484
Twin Drlg. Co. No. 1 Mott	NE NE SW 1-31-12W	1,634	3,540	3,749	4,282	4,379	4,553	4,634	.....	4,690
Superior Oil Co. No. 1 Kitner	Cen. SW 7-31-15W	1,920	3,908	4,105	4,623	4,700	4,840	4,512 ^b	.....	4,850
John O. Farmer No. 1 Hull	NW NW NE 21-31-15W	1,831	3,871	4,067	4,658	4,662	4,725	4,890	4,429 ^b	4,900
Northern Natural Gas No. 1 Davis "B"	C NE NE 29-32-15W	1,938	4,118	4,288	4,860	5,058	5,170	5,317	5,428	5,477
Beardmore Drlg. Co. No. 1 Bevans	SE SE NW 35-33-12W	1,588	3,811	3,994	4,694	4,950	5,070	5,169	.....	5,223
Earl F. Wakefield No. 1 Baier	NE NE NE 5-33-13W	1,877	3,959	4,152	4,658	4,879	4,968	5,084	.....	5,120
Mull Drlg. Co., Inc. No. 1 Platt Est.	SE SE NE 30-33-15W	1,645	3,918	4,089	4,703	4,867	4,972	5,118	.....	5,170
Texaco, Inc. No. 1 Garner	NE NE SE 21-34-10W	1,355	3,595	3,864	4,690	4,855	5,070	5,152	5,320	5,380
D. R. Lauck Oil Co. No. 1 Elliott	SE SW SW 26-34-11W	1,309	3,609	3,920 ^a	4,636	4,182 ^a	4,398 ^b	.....	.....	4,715
K & E Drlg., et al. No. 1 Adams "B"	C NW NE 21-34-13W	1,593	3,912	4,093	4,734	4,728 ^a	.....	.....	.....	4,910

Barton

*Musgrove Petroleum Corp. No. 1 Strecker	NE SW NE 28-16-14W	1,976	3,127	3,194	3,416 ^a	.....	.....	3,442	3,490
*Peel-Hardman No. 1 Ochs	SE SE NE 24-16-15W	1,935	3,109	3,173	3,404 ^a	945 ^a	.....	.....	3,452
*Harms-Burt Drig. No. 1 Stueder "A"	SE SE SW 5-18-11W	1,791	2,906	3,031	625 ^a	3,267 ^b	3,301 ^a	.....	3,330
*Nadel & Gussman No. 1 Werner	NW NW SW 1-18-12W	1,871	3,030	3,150	744 ^a	3,396 ^a	.....	.....	3,426
*Nadel & Gussman No. 1 Cook	NE NE SE 13-19-14W	1,867	3,121	3,229	795 ^a	3,442 ^b	3,451 ^a	.....	3,510

Butler

*O. A. Sutton No. 1 Gronau	NW NW NE 19-23-3E	1,458	1,849	2,109	2,783	2,506 ^b	2,769 ^a	.....	2,819
E. H. Adair Oil Co. No. 1 Decker	SE NW NW 13-23-4E	1,441	2,714 ^a	1,832	2,463	2,607	2,756	2,792	2,872
N. Appleman & Graves Drig. No. 1 Stucky	NW NW SW 10-23-5E	1,482	.....	1,668	2,071 ^b	2,310 ^a	.....	2,333	2,348
*Bedell-Catt Drig. Co. No. 1 Koehn	SW SE NW 16-23-5E	1,499	.....	1,762	2,164 ^b	.....	.....	2,381	2,437
*Chas. L. Carlock No. 1 Ks. Methodist Home	NW NW NW 2-23-7E	1,528	1,484	1,796	2,751	2,245 ^b	.....	.....	2,803
*Ernst Development, Inc. No. 1 Dyck	NW NW NW 5-24-3E	1,411	.....	2,076	2,745	2,458 ^b	2,725 ^a	.....	2,810
*Crowe Drig. Co. No. 1 Harder	SW SW SW 22-24-3E	1,382	.....	2,064	2,783	2,502 ^b	.....	.....	2,802
*Crowe Drig. Co. No. 1 Penner	NW NW SE 29-24-3E	1,364	.....	2,105	2,821	2,531 ^b	2,797 ^a	.....	2,840
*Huff & Smith, B.O.A. No. 1 King	NE NW SE 9-24-4E	1,371	.....	1,835	2,511	2,264 ^b	2,469 ^a	.....	2,553
*Red Drig. Co. No. 1 Corfman	NE NE NE 34-24-4E	1,419	.....	1,938	2,725	2,880	2,378 ^b	2,974	3,040
*John P. Gaty No. 1 Chain	NE NE SW 20-25-3E	1,304	.....	2,000	2,723	3,056	3,161	2,460 ^b	3,126 ^a

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans.- K.C.	Missis- sippian	"Kinder hook"	Viola	
*Vernon Baker No. 1 Zebald	SW SW NW 8-25-7E	1,438	.....	1,625	2,767	2,240 ^b	.....	2,825
*Rosencrantz-Bemis No. 1 Shaffer	NE NE NE 23-26-3E	1,338	.....	1,934	2,720	3,006	3,065	3,110
J. E. Morris & Kewanee Oil No. 1 Priest	SW NW NW 20-26-4E	1,311	2,358 ^b	1,852	2,668	2,898	2,962	3,100
*J. A. Allison, et al. No. 1 McEwen	SE SE NW 16-27-3E	1,335	1,990 ^a	2,513 ^b	2,819	3,050	.....	3,145
*Ted Ferrier No. 1 Hoffman	NE NE SW 30-28-3E	1,328	.....	2,113	3,010	3,150	.....	3,292
*Mull Drlg. Co. No. 1 Rhodes	NW SE SW 28-28-7E	1,538	2,120 ^a	1,781	2,807	3,152	.....	3,236
*Beaumont Petroleum Co. No. 1 Carey	NW NE SE 9-29-3E	1,308	2,354 ^a	2,565 ^b	2,843	3,012	.....	3,120
*McKnab-Lindsay No. 1 Galloup	NE NW SE 21-29-3E	1,273	2,054 ^a	2,589 ^b	2,884	3,108	.....	3,245
*H. H. Blair No. 1 Blair Ranch	C NW NE 26-29-6E	1,432	.....	2,118 ^a	2,829	.....	.....	3,313
Chase								
Anderson-Pritchard Oil Co. No. 1 Badger	SE SE SE 31-18-6E	1,354	1,221	1,465	1,799 ^b	.....	1,988	2,190
Wm. Gruenewald No. 1 Guthrie	SE NW SE 11-18-8E	1,450	1,370	1,672	2,658	3,080 ^a	3,168	3,402
Wm. Gruenewald No. 1 Byrd	NW NW NW 20-18-9E	1,328	2,930 ^b	1,538	2,527	2,805	2,992	3,205
*E. H. Adair Oil Co. No. 1 Symes	SE SE SW 5-19-6E	1,345	1,227	1,446	1,811 ^b	.....	2,017	2,042
Irvin Daetweiler No. 1 Keogobean	NE NE NW 8-19-6E	1,334	1,200	1,450	1,791 ^b	.....	2,009	2,326

E. H. Adair Oil Co. No. 1 Spain	NE NE NE 8-19-6E	1,357	1,211	1,462	1,808 ^b	.....	2,029	2,079	2,152	2,184
*Alfred Waner No. 1 Thompson	SE SE NW 36-20-5E	1,251	.....	1,548	2,179	2,294	2,437	1,909 ^b	.....	2,490
*Seneca Mfg. Corp. No. 1 Hittenbach	NW NW SE 28-20-6E	1,250	.....	1,558	2,301	2,420	2,567	1,908 ^b	.....	2,585
*Murphy-Sauder No. 1 Owens	SW SE SE 36-20-9E	.....	.....	.....	2,487	.....	.....	.....	.....	2,507
*Rex & Morris & E. Wakefield No. 1 Dawson	SW SW SW 1-21-6E	1,411	1,402	1,676	2,389	2,465	2,611	2,056 ^b	.....	2,640
E. H. Adair Oil Co. No. 1 Huber	SE SE SW 22-22-9E	1,532	.....	1,582	2,581	2,001 ^b	.....	.....	.....	2,625
E. H. Adair Oil Co. No. 1 Merriam	SW SW NE 29-22-9E	1,598	.....	1,688	2,687	2,128 ^b	.....	.....	.....	2,729
E. H. Adair Oil Co. No. 1 Miller	NE NE SW 33-22-9E	1,610	.....	1,660	2,690	2,116 ^b	.....	.....	.....	2,725
Chautauqua Dave Morgan Oil Co. No. 1 Wood	NE NE NE 11-32-8E	1,150	894	1,085	2,365	2,695	.....	.....	2,748	2,805
Cheyenne Nelson & Mery No. 1 David	C NE SW 21-1-37W	3,285	4,213	4,261	4,982	3,250 ^a	4,563 ^b	.....	.....	5,080
Texas Crude Oil & J. O. Farmer No. 1 Mears	C SW NE 33-1-37W	3,312	4,205	4,253	4,960	3,240 ^a	4,553 ^b	.....	.....	5,073
Badger Drilg. Co. No. 1 Schrader	C NW NW 25-1-38W	3,266	4,046 ^c	4,230	4,954	3,220 ^a	4,540 ^b	.....	5,080	5,130
E. J. Athens No. 1 Rath	C NW NW 11-2-41W	3,457	4,237 ^c	4,396	5,223	4,716 ^b	.....	.....	.....	5,285
*E. J. Athens No. 1 Zimbleman	C SW SW 28-2-41W	3,658	.....	4,465	5,370	.....	.....	.....	.....	5,420
Norbla Oil Co. No. 1 Foncannon	C SE SE 18-3-39W	3,438	4,287	4,327	5,136	4,631 ^b	4,938 ^b	.....	.....	5,250
Norbla Oil Co. No. 1 Knorr	C SW SW 15-3-41W	3,521	4,190 ^c	4,377	5,204	4,690 ^b	.....	.....	.....	5,304

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet						Total depth, feet	
			Heebner	Lans- K.C.	Missis- sippian	"Kinder hook"	Viola	Simp- son		Ar- buckle
Sun Oil Co.										
No. 1 L. R. Rueb	C SE SE 9-3-42W	3,734	4,404'	4,545	5,350	5,242'	.....	.....	.....	5,449
No. 1 L. R. Rueb	Cen. NW NW 26-3-42W	3,661	4,302'	4,443	5,245	5,112'	.....	.....	.....	5,331
No. 1 H. Richers	C NE SE 18-4-39W	3,527	4,335	4,378	5,160	3,305*	4,210'	.....	5,342	5,385
Atomic Drlg. & Serv., Inc.	C SW NW 28-4-39W	3,514	4,292	4,344	5,090	4,164'	4,635 ^b	.....	.....	5,190
No. 1 Mundhenke	C NW NE 3-5-39W	3,516	4,296	4,351	5,088	4,633 ^b	.....	.....	.....	5,200
Texas Crude Oil & J. O. Farmer										
No. 1 Anderson										
John O. Farmer & Musgrove										
No. 1 Nitzel										
Clark										
Skelly Oil Co.	App. C SE 25-34-24W	1,908	4,252	4,444	5,500	.....	.....	7,218	7,308	7,578
No. 1 Gabbert	C NE SW 2-35-21W	1,856	4,385	4,573	5,655	.....	.....	.....	.....	5,670
Pure Oil Co.										
No. 1 Tuttle "E"										
Clay										
Kewanee Oil Co.	NW NW SE 14-7-2E	1,225	1,552	1,665	2,190	2,218	2,832	3,020	3,116	3,230†
No. 1 Bloom	SW SW SW 20-10-1E	1,352	1,823	1,957	2,556	2,715	3,226	2,902 ^b	3,444	3,662†
Kewanee Oil Co.	NW NW NE 27-10-3E	1,286	1,429	1,541	2,080	2,190	2,712	2,352 ^b	2,941	3,079†
No. 1 Clay										
Cloud										
Atchinson, Buchan & Cornell	C SW SE 24-5-1W	1,367	1,665	1,768	2,086 ^b	2,423 ^b	2,759	2,946	3,066	3,103
No. 1 Resco										
Comanche										
*Capitt Drlg., Inc.	C NE NE 6-31-18W	2,182	4,250	4,444	5,055	4,769 ^b	.....	.....	.....	5,157
No. 1 Burkhall										

The Pure Oil Co. No. 1 Mark Aladdin Petroleum Corp. No. 1 Herd	C NW NW 27-32-18W	2,066	4,275	4,465	5,140	5,582	5,670	5,806	5,971	6,048
	C SW NE 25-32-19W	2,066	4,317	4,531	5,193	5,715	5,781	5,990	6,094	6,151
Cowley Cities Service No. 1 Snell Bedell-Catt Drlg. Co. No. 1 Guyot Associated Co., Inc. No. 1 Williams Bedell-Catt Drlg. No. 1 Hornbeck Gralapp & Everly No. 1 Richardson Dave Morgan No. 1 Ferguson *A. D. Allison & Co. No. 1 Hannah *G. D. Smitherman No. 1 Jarvis *O. A. Sutton No. 1 Lorton Wrico Drlg. Co. No. 1 Reidy *Wrico Drlg. Co. No. 1 Faber Earl F. Wakefield No. 1 Barnes *McKnab & Lindsay No. 1 Hill Ewalt & Crisswell No. 1 Lewis *Robinowitz Oil Co. No. 1 Adams	SE SW NW 4-30-3E	1,251	1,910	2,113*	2,985	3,230	2,443*	3,309	3,319	3,359
	SW SE NW 6-30-4E	1,172	1,902*	2,258*	2,892	3,026	.....	.....	3,110	3,149
	SW SW SE 28-30-6E	1,392	1,408	1,770	2,913	1,784*	2,408"	.....	.....	2,968
	NE NE NE 7-31-3E	1,251	.....	2,370*	2,758*	.....	3,026"	.....	.....	3,500
	SW SW NW 16-31-8E	1,492	.....	2,034*	2,788	.....	.....	.....	.....	2,840
	SW SW SE 18-31-8E	1,400	1,189	2,230 ^b	2,752	3,051	.....	.....	3,130	3,180
	NW SE SW 6-32-4E	1,141	.....	1,980*	3,008	3,325	.....	.....	3,404	3,424
	SW SW SE 34-32-5E	1,310	1,943*	2,656 ^b	3,117	.....	.....	.....	.....	3,170
	NW NW SE 23-32-6E	1,357	1,819*	2,362*	3,003	.....	.....	.....	.....	3,085
	SW NE SW 23-32-7E	1,376	.....	1,725*	2,297*	.....	.....	.....	.....	2,302
	NE NE NE 26-32-7E	1,405	.....	1,710*	2,262*	.....	.....	.....	.....	2,272
	NE NE SW 9-32-8E	1,330	.....	.....	1,990*	.....	.....	.....	.....	2,093
	SW SW NE 8-33-5E	1,227	1,974*	2,574*	3,145	.....	.....	.....	.....	3,171
	NW NW NW 26-34-4E	1,217	2,074*	2,790 ^b	3,306	.....	.....	.....	.....	3,370
	SE SW SW 6-34-7E	1,235	913'	1,622	2,965	1,680*	.....	.....	.....	2,988

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet		
			Heebner	Lans.- K.C.	Missis- sippian hook"	Viola	Simp- son		Ar- buckle	
The Texas Co. No. 1 Boger	NE SW NE 14-35-4E	1,158	.....	1,995*	3,243	3,700	2,753 ^b	3,723	3,728	3,780
Decatur										
Woodman & Iannitti Drlg. No. 1 Ridgway	SE SE SE 30-1-28W	2,727	3,613	3,660	3,879 ^b	4,045 ^b	.....	.....	4,161	4,255
Sauvage Drlg. Co. No. 1 Brady	SE SE SE 8-1-29W	2,603	3,507	3,533	3,792 ^b	3,992 ^b	.....	.....	4,078	4,200
M. J. Lebsack No. 1 Weber	SE SE NW 2-2-30W	2,651	3,596	3,642	3,872 ^b	4,100 ^b	.....	.....	4,179	4,214
M. J. Lebsack No. 1 Helmkamp "A"	SW SW NE 21-2-30W	2,839	3,825	3,870	4,114 ^b	4,306 ^b	.....	.....	.....	4,392
Cleary Petroleum No. 1 Carper	NE NE NW 32-3-26W	2,570	3,536	3,576	3,774 ^b	3,937 ^b	.....	.....	3,993	4,025
Cleary Petroleum, Inc. No. 1 Robertson	SE SE NW 23-3-27W	2,617	3,532	3,574	3,780 ^b	3,936 ^b	2,190*	.....	3,975	4,015
Cleary Petroleum, Inc. No. 1 Johnson	SW SW SW 28-3-27W	2,654	3,589	3,632	3,836 ^b	2,247*	.....	.....	.....	3,855
Burch Drlg. Co. No. 1 Machart	NW SE NW 34-3-27W	2,595	3,458	3,500	3,708 ^b	2,112*	.....	.....	.....	3,725
M. J. Lebsack No. 1 Unger	NE NE NE 3-3-30W	2,801	3,791	3,838	4,336	4,357	4,062 ^b	2,575*	4,370	4,394
John O. Farmer No. 1 Farris	SW SW SW 7-4-26W	2,566	3,512	3,554	3,750 ^b	3,906 ^b	.....	.....	3,944	3,983
R. W. Shields, Sunray & C-G Drlg. No. 1 Tacha	NW NE NW 19-4-26W	2,521	3,472	3,513	3,710 ^b	2,100*	.....	.....	.....	3,730
Woodman-Iannitti No. 1 Dwyer	C NE SE 23-5-26W	2,563	3,602	3,643	3,831 ^b	2,150*	.....	.....	.....	3,857
K & E Drlg., Inc. No. 1 Koepersch	NW NW NE 16-5-29W	2,778	3,848	3,894	4,402	4,101 ^b	4,296 ^b	2,535*	.....	4,420

K & E Drig., Inc. No. 1 Roulier	NW NW NW 19-5-30W	2,950	3,934	3,982	4,510	4,200 ^b	4,418 ^a	2,657 ^a	.....	4,530
Dickinson										
*Kenneth Nordboe No. 1 L. Clemence	SE SE NE 28-13-1E	1,167	.....	1,703	2,324	2,067 ^b	.....	.....	.....	2,350
*Pack Oil & White & Ellis Drig. No. 1 Kickhafer	SW SW SE 1-15-4E	1,340	.....	1,636	2,158	1,978 ^b	2,139 ^b	.....	.....	2,208
*Pack Oil & White & Ellis Drig. No. 1 Hendricks	NW NE NW 13-15-4E	1,296	.....	1,587	2,145	1,935 ^b	2,128 ^b	.....	.....	2,195
*Rex & Morris Drig. Co. No. 1 Manley	SW SW NW 7-16-1E	1,337	.....	2,006	2,644	2,411 ^b	2,607 ^b	.....	.....	2,695
C. H. Spoor, Jr. No. 1 Schwartz	SW SW SW 19-16-1E	1,356	1,823	2,035	2,682	2,400 ^b	.....	.....	.....	2,700
Edwards										
Sterling Drig. Co. No. 1 Boyd	C NW NW 1-23-19W	2,207	3,816	3,909	4,459	4,520	4,218 ^b	.....	.....	4,550
Hudson Oil Co. No. 1 Soeken	SW SW SE 23-24-17W	2,112	3,760	3,900	4,407	4,450	4,528	4,349 ^a	.....	4,545
Leben Drig. Co. No. 1 McCormick	SW SW NE 21-24-18W	2,155	3,831	3,957	4,482	.....	4,616	4,475	.....	4,640
D. R. Lauck Oil Co. No. 1 Jarvis	SW SW NE 31-24-18W	2,193	3,891	4,016	4,566	4,612	4,662	4,336 ^b	4,537 ^a	4,698
Carl Hertlein No. 1 Hetzel	N ¹ / ₂ NE NW 24-24-19W	2,144	3,828	3,947	4,512	4,564	4,614	4,462 ^a	.....	4,657
*J. E. Newman No. 1 Donovan	C NW SW 32-25-16W	2,095	3,790	3,944	4,446	4,485	4,553	4,218 ^b	4,424 ^a	4,565
D. R. Lauck Oil Co. No. 1 Mayhew	C SW SW 4-25-17W	2,137	3,809	3,948	4,459	4,498	4,556	4,249 ^b	4,437 ^a	4,589
Honaker-Davis No. 1 Tubbs	C NW SW 11-25-17W	2,113	3,809	3,962	4,452	4,496	4,564	4,256 ^b	4,442 ^a	4,605
Musgrove Petroleum Corp. No. 1 Elson	SW SW NE 7-25-18W	2,184	3,910	4,040	4,582	.....	4,695	.....	.....	4,720

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface elevation, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans.- R.C.	Missis- sippian hook	Viola	Simp- son	
Hilton Drlg. Co. No. 1 Bordewick Rupp-Ferguson Oil Co. No. 1 Lewis	C SW NW 9-26-18W	2,184	3,960	4,111	4,641 ^a	4,723	4,834	4,870
	S½ NE SW 6-26-19W	2,229	4,016	4,148	4,729	4,712 ^a	.....	4,801
Elk								
Dave Morgan No. 1 Preston	SW NW NE 23-28-10E	1,285	.....	1,030	2,180	2,518	1,556 ^b	2,558
*Beaumont Petroleum Co. No. 1 Hoard "S"	SW NW NE 22-29-8E	1,531	2,052 ^a	2,273 ^b	2,843	3,093	.....	3,143
Dave Morgan No. 1 Rader	SE SE NW 12-29-9E	1,124	.....	1,078	2,200	2,510	1,610 ^b	2,548
Dave Morgan Oil Co. No. 1 Perkins	SE NW SW 1-30-11E	1,036	.....	665	1,764	2,030	1,212 ^b	2,071
Ellis								
*Tomlinson-Kathol No. 1 Davis	NW SW NW 25-11-20W	2,100	3,360	3,399	3,642 ^b	1,488 ^a	.....	3,712
Davis Bros. & Transit Corp. No. 1 Chrisler "O"	C SE NE 6-12-16W	1,921	3,100	3,147	3,432 ^b	1,091 ^a	.....	3,508
*Peel-Hardman No. 1 Leiker	SW SW SE 6-12-18W	2,172	3,412	3,456	1,500 ^a	.....	.....	3,730
*Chief Drlg. & Alpine Oil No. 1 Sullivan	NW NW SW 17-12-18W	2,211	3,464	3,507	3,749 ^b	3,795 ^a	1,514 ^a	3,852
*Petroleum, Inc. No. 1 Jensen Trust	E½ W½ SE 34-12-18W	2,092	3,327	3,371	3,629 ^b	1,355 ^a	.....	3,680
Woodman-Iannitti No. 1 Armbruster	SE SE SE 17-12-20W	2,234	3,532	3,570	1,630 ^a	.....	.....	3,945
Stickle Drlg. Co. No. 1 Fogle	SW SW NW 14-13-19W	2,060	3,319	1,368 ^a	.....	.....	.....	3,686

*Okmar Oil Co. No. 1 Calvert Hellar Drig. Co. No. 1 Hertel White Eagle Oil Co. No. 1 Dinkle Davis Bros. & Transit Corp. No. 1 Moore "A"	NE NE SE 14-13-20W	2,163	3,454	3,491	3,742 ^b	3,821 ^p	1,505 ^a	.....	.....	3,860
	SW SW NW 32-14-16W	1,922	3,146	3,197	1,043 ^a	.....	.....	.....	.....	3,500
	SE SE NW 6-14-20W	2,217	3,473	3,514	3,756 ^b	1,530 ^a	.....	.....	.....	3,935
	SW SE SW 24-14-20W	2,094	3,358	3,404	3,648 ^b	1,360 ^a	.....	.....	.....	3,761
	SE SE NE 13-15-17W	1,952	3,184	3,236	3,462 ^b	.....	.....	.....	.....	3,530
	NW NW SE 9-15-19W	2,039	3,294	3,342	3,590 ^b	1,265 ^a	.....	.....	.....	3,722
	SE SE SW 19-15-19W	2,081	3,346	3,391	1,305 ^a	.....	.....	3,753 ^r	.....	3,775
	NW NW NE 16-15-20W	2,063	3,362	3,405	3,641 ^b	.....	.....	3,844 ^r	.....	3,887
Ellsworth										
*Solar Oil Co. No. 1 Oeser Continental Oil Co. No. 2 Webster Continental Oil Co. No. 1 Webster Continental Oil Co. No. 1 Buffington Continental Oil Co. No. 1 Hughes Continental Oil Co. No. 1 Johnson "A" Continental Oil Co. No. 1 Larson Continental Oil Co. No. 1 Johnson	NE NE NW 21-15-10W	1,742	2,785	2,902	3,181 ^b	588 ^a	.....	3,378	3,405	3,415
	NE SW NW 4-16-6W	1,660	2,568	2,755	3,260	3,320	3,118 ^b	.....	.....	3,330
	SW SE NW 5-16-6W	1,667	2,566	2,745	3,215	3,260	.....	.....	.....	3,310
	NE NE NW 10-16-6W	1,619	2,535	2,725	3,270	3,325	.....	.....	.....	3,341
	C NE NW 21-16-6W	1,542	2,450	2,642	3,115	3,162	.....	.....	.....	3,190
	NW NW NW 35-16-6W	1,445	2,345	2,542	3,066	.....	.....	.....	.....	3,150
	SW SE NW 5-17-6W	1,621	2,520	2,704	3,290	.....	.....	.....	.....	3,328
	C SE NW 9-17-6W	1,581	2,489	2,680	3,134	3,175	.....	.....	.....	3,199

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet	
			Heebner	Lans.- K.C.	Missis- sippian	"Kinder hook"	Viola		Simp- son	Ar- buckle
Pure Oil Co. No. 1 Bettenbrock	C NW SW 1-17-7W	1,546	2,536	2,717	3,208	3,178 ^p	.....	.....	3,254
Francis M. Raymond No. 1 Hokr	NW NW NW 7-17-7W	1,698	2,614	2,757	3,175 ^p	.....	3,391	3,435	3,536
Bergman Drlg. Co. No. 1 Worl	NE NE SE 31-17-7W	1,729	2,647	2,807	.....	.....	3,313	3,360	3,430
Beardmore Drlg. & K & E Drlg. No. 1 White	SW SE NW 35-17-7W	1,663	2,642	2,813	3,255	3,249 ^p	.....	.....	3,305
Finney									
R. W. Lange No. 1 Kceler	C NW NW 35-22-28W	2,647	2,700 ^t	.....	.....	.....	.....	.....	3,226
Texaco, Inc. No. 1 Davis	C SW NE 3-23-30W	2,805	3,959	4,005	4,696	2,778 ^t	3,481 ^t	.....	4,888
James E. Ely No. 1 Ely	C NE SE 18-23-30W	2,855	3,972	4,020	4,716	2,790 ^t	.....	.....	4,951
Greenland Drlg. Co. No. 2 Spratt "A"	C NW NW 19-24-33W	2,941	3,902	3,960	4,843	2,685 ^t	.....	.....	5,057
Greenland Drlg. Co. No. 1 Spratt "A"	C SW SW 32-24-33W	2,920	3,900	3,992	4,974	2,680 ^t	.....	.....	5,163
Shell Oil Co. No. 1-22 Brown "A"	C NE SW 22-24-34W	2,961	3,782	3,827	4,702	.....	.....	.....	5,100
Greenland Drlg. Co. No. 1 Hamlin "B"	C NW NW 29-24-34W	2,963	3,770	3,850	4,831	2,589 ^t	.....	.....	4,944
Greenland Drlg. Co. No. 3 Spratt "A"	C NW NW 20-25-33W	2,941	3,893	3,983	4,876	2,658 ^t	.....	.....	5,145
Shell Oil Co. No. 1-23 Brown "B"	C NE SW 23-25-34W	2,981	3,875	3,981	5,040	2,642 ^t	.....	.....	5,282

Ford

Kingwood Oil Co. No. 1 Cain	C SE NW 18-25-25W	2,616	4,124	4,232	4,906	1,705 ^a	5,612	5,704	5,710	5,720
Apache Oil Corp. No. 1 Temaat	C SE NW 35-26-22W	2,357	4,100	4,225	4,886	1,410 ^a	.....	.....	.....	4,972
Pure Oil Co. No. 1 Umbach	C NW NW 12-27-22W	2,397	4,148	4,284	4,934	1,445 ^a	.....	.....	.....	5,065
Apache Oil Corp. No. 1 Gum	SW SW NE 3-27-23W	2,470	4,186	4,314	5,020	1,505 ^a	.....	.....	.....	5,182

Geary

*Kaiser-Francis No. 1 Roesler	C NW NW 11-13-6E	1,180	.....	1,325	1,813	1,632 ^b	.....	.....	.....	1,847
*F. G. Holl No. 1 Broderick	C NE NE 11-13-7E	1,386	.....	1,478	1,973	2,053	1,786 ^b	2,305 ^a	.....	2,345
Stickie Drig. Co. No. 1 Mader	C NW SE 4-13-8E	1,480	1,360	1,542	2,088	2,136	2,690	2,382 ^a	2,886	2,924
F. G. Holl No. 1 McArthur	SWc Lot 18 6-13-8E	1,427	1,248	1,458	2,149 ^a	1,938	2,464	2,536	2,665	2,685

Gove

Barnett Oil & R. W. Shields No. 1 Boone	C SW SE 6-11-26W	2,635	3,866	3,900	4,150 ^b	2,230 ^a	.....	.....	.....	4,170
Sunray Mid-Continent No. 1 Heier	C SW SE 22-11-28W	2,759	3,858	3,890	4,462	4,536	4,542	2,260 ^a	4,583	4,590
Murfin & Aurora Gasoline No. 1 Lundgren	NE NE NW 4-15-29W	2,543	3,587	3,623	4,218	3,943 ^b	1,950 ^a	.....	.....	4,368

Graham

*Duke Drig. Co. No. 1 Roubach	C SE NE 8-6-22W	2,309	3,530	3,572	3,764 ^b	3,807 ^p	.....	.....	.....	3,894
Imperial Oil of Kansas No. 1 Willtrout	C NE SW 29-6-22W	2,331	3,549	3,589	3,784 ^b	1,992 ^a	.....	.....	.....	3,800
Imperial Oil of Kansas No. 1 Stinemetz "B"	C SW NW 31-6-22W	2,332	3,535	3,576	3,768 ^b	1,990 ^a	.....	.....	.....	3,770

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans- K.C.	Missis- sippian	"Kinder hook"	Viola	
Imperial Oil of Kansas No. 1 Pratt "A"	NE NE NE 23-6-23W	2,329	3,540	3,582	3,776 ^b	1,999 ^a	.....	3,788
K & E Drilg., Inc. No. 1 Meyer	C SW NE 28-6-23W	2,422	3,638	3,681	3,868 ^b	2,087 ^a	.....	3,885
*John O. Farmer No. 1 Noone	NW NW SW 8-6-25W	2,536	3,584	3,625	3,809 ^b	4,014 ^b	.....	4,050
Imperial Oil of Kansas No. 1 Munson	C SE NE 9-7-22W	2,254	3,472	3,515	3,708 ^b	1,850 ^a	.....	3,720
Imperial Oil of Kansas No. 1 Stinemetz "A"	C SE NE 20-7-22W	2,325	3,514	3,554	3,754 ^b	1,946 ^a	.....	3,765
Murfin, Rains & Williamson No. 1 Drury	C SE SW 1-7-23W	2,405	3,629	3,658	3,866 ^b	2,055 ^a	.....	4,095
Woodman & Iannitti Drilg. No. 1 Brant	C SW NW 16-7-23W	2,395	3,642	3,681	3,873 ^b	2,090 ^a	.....	3,900
*Murfin Drilg. No. 1 Moore	C SE SE 33-7-23W	2,324	3,560	3,602	3,809 ^b	.....	.....	3,825
*Murfin-Rains & Williamson No. 1 Criswell	C SW NW 23-7-24W	2,465	3,715	3,760	3,962 ^b	.....	.....	3,975
*M. J. Lebsack No. 1 Gates	SW SW SW 29-8-23W	2,364	3,698	3,741	3,957 ^b	2,053 ^a	.....	3,960
Leben Drilg. Co. No. 1 McFadden	NW NW SE 18-9-25W	2,636	3,883	3,925	4,153 ^b	2,330 ^a	.....	4,175
C-G Drilg. & Petroleum, Inc. No. 1 Dreiling "A"	C NW SE 21-9-25W	2,609	3,850	3,886	4,112 ^b	2,251 ^a	.....	4,125
*Barnett Drilg., Inc. No. 1 Rome	SW NE NW 32-10-24W	2,444	3,752	3,794	4,027 ^b	2,067 ^a	.....	4,113
*Kaiser-Francis No. 1 Pfeifer	SW SW NE 25-10-25W	2,458	3,754	3,795	4,020 ^b	2,118 ^a	.....	4,030

Grant Shell Oil Co. No. 1-16 Gall Area 13	C NE SW 16-27-37W	3,063	3,741	3,828	5,207	.....	.....	.....	.....	5,675
	Shell Oil Co. No. 1-26 Fowler	3,076	3,857	3,912	5,353	.....	.....	.....	.....	5,714
	Columbian Fuel No. 2 Kennedy "A"	3,094	4,034	4,138	5,564	.....	.....	.....	.....	5,956
	17-28-35W									
Greeley General Crude Oil Co. No. 1 Kucera	C NE NE 15-19-41W	3,667	.....	2,410 ^a	2,933 ^f	.....	.....	.....	.....	3,450
Greenwood E. H. Adair Oil Co. No. 1 Marks Kewanee Oil Co. No. 1 Bitler *Beaumont Petroleum Co. No. 1 K.T.W. Fee "J" Bedell-Catt Dr'g. Co. No. 1 Rader	SE SE NW 5-23-9E	1,517	1,265	1,605	2,614	2,022 ^b	.....	.....	.....	2,657
	NE NW SE 27-24-13E	1,101	.....	490	1,644	982 ^b	.....	.....	.....	1,670
	SE NE NE 17-27-9E	1,327	.....	1,805 ^b	2,423	2,730	.....	.....	.....	2,780
	SW SW SE 36-27-9E	1,202	.....	1,962 ^b	2,243	2,341	.....	.....	.....	2,404
										2,609
Hamilton Keith L. Rising No. 1 Whiteneck *Colorado Oil & Gas Co. No. 1 Hager Hamilton Bros., Inc. No. 1-3 Tate "B" Colorado Oil & Gas Co. No. 1-17 Tate Western Natural No. 1 Fred Cobb	Cen. SW 33-21-40W	3,571	.....	2,275 ^a	2,855 ^f	.....	.....	.....	.....	2,874
	C NE SW 19-23-41W	3,415	.....	1,898 ^a	.....	.....	.....	.....	.....	2,900
	C SW 3-24-42W	3,335	.....	1,730 ^a	.....	.....	.....	.....	.....	2,350
	Cen. NE 17-24-42W	3,358	.....	1,708 ^a	.....	.....	.....	.....	.....	2,700
	C SE 1/4 20-26-40W	3,382	3,784	3,859	5,365	4,420 ^b	.....	.....	.....	5,548

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet		
			Heebner	Lans.- K.C.	Missis- sippian hook"	Viola	Simp- son		Ar- buckle	
Harper										
*Imperial Oil of Kansas No. 1 Hostetler	NW SE SE 3-32-6W	1,375	3,089	3,707 [†]	4,291	.....	4,705	.....	4,720	
Imperial Oil of Kansas No. 1 Pelzl	NE NE NE 13-32-6W	1,341	3,050	3,408	4,290	4,605	.....	4,713	.....	4,731
Ambassador Oil Corp. No. 1 Murray	NW NE SW 14-32-6W	1,380	3,130	3,955 ^b	4,335	4,622	.....	4,735	4,873	4,933
Dorset Co. No. 1 Carothers	SE SE SW 20-32-6W	1,435	3,258	3,845 [†]	4,444	4,730	.....	4,865	.....	4,870
Aylward & Bachus No. 1 Parker	NE NE NE 6-32-7W	1,469	3,306	3,844 [†]	4,392	4,624	4,726	4,748	.....	4,770
*Mull Drlg. Co. No. 1 Biberstein	N½ SW SW 11-32-9W	1,472	.....	.....	4,360	.....	.....	.....	.....	4,440
Prime Drlg. & B.O.A. No. 1 Hallman	C SE SW 9-34-6W	1,300	3,220	3,888 [†]	4,560	4,948	.....	5,044	.....	5,068
Shell Oil Co. No. 1 Williams	NW NW SE 9-35-5W	1,228	3,170	3,958 [†]	4,604	.....	.....	.....	.....	4,948
Texaco, Inc. No. 1 Walker	C SE NW 9-35-6W	1,265	3,276	4,037 [†]						4,090
Harvey										
*Time Petroleum Co. No. 1 Voth	SW SW NE 27-22-2E	1,534	.....	2,236	2,931	2,904 ^p	.....	.....	.....	2,954
*Crowe Drlg. Co. No. 1 Krebs	SW SW NW 16-23-2E	1,472	.....	2,229	2,931	2,600 ^b	2,852 ^p	.....	.....	2,949
E. H. Adair Oil Co. No. 1 Busenitz	NW NW NW 32-23-2E	1,465	2,008	2,266	2,918	3,180	2,647 ^b	3,280 ^b	.....	3,300
Gulf Oil Corp. No. 1 McCann	NE NW NW 13-24-1E	1,483	2,072	2,334	3,020	3,296	3,476	3,388 ^b	3,580	3,595

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TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans.- K.C.	Missis- sippian hook	Viola	Simp- son	Ar- buckle
Glen Drlg. Co. No. 1 Smith	SW SW SW 28-22-23W	2,287	3,860	3,936	4,559	1,512 ^a	.....	.....
*Imperial Oil of Kansas No. 1 Bradshaw	C SE NE 24-22-24W	2,401	3,986	4,064	4,694	.....	.....	.....
Kewance Oil Co. No. 1 Tuta	SW NE NE 2-22-25W	2,471	3,890	3,939	4,569	4,316 ^a	.....	.....
Kewance Oil Co. No. 1 Dora	SW SE NE 3-22-25W	2,504	3,904	3,954	4,604	4,340 ^b	.....	.....
Hellar Drlg. Co. No. 1 Gleason	NW NW SW 27-23-21W	2,365	3,981	4,078	4,672	4,431 ^b	4,640 ^b	1,480 ^a
Edward F. Lippoldt No. 1 Fee "C"	C NE NE 15-23-23W	2,300	3,846	3,912	4,560	4,291 ^b	1,430 ^a	.....
O. A. Sutton No. 1 Klug	NW NW NW 31-24-22W	2,406	4,032	4,134	4,755	4,732 ^b	1,545 ^a	.....
Jackson								
*Wm. Gruenewald No. 1 Riecheck	C SW SW 22-6-13E	1,211	1,101	1,313	2,525	2,635	3,424	2,847
Carter Oil Co. No. 1 Graham	C SW NW 27-7-13E	1,290	1,185	1,370	2,553	2,662	3,408	3,516
Johnson								
Harold G. Kramer No. 1 Meinke	NE NE NE 3-13-22E	940	.....	354 ^b	1,034	1,446	1,496 ^b	.....
Kearny								
The Pure Oil Co. No. 1 Campbell	NW NW SE 9-21-35W	3,171	3,941	3,986	4,882	4,448 ^b	2,170 ^a	.....
Gulf Oil Corp. No. 1 Foster	C SW SW 34-22-35W	3,043	3,808	3,862	4,912	4,340 ^b	1,940 ^a	.....

Greenland Drlg. Co. No. 1 Roderick	C NE NE 5-25-35W	2,975	3,705	3,750	4,804	.....	.....	.....	4,955
Kingman									
*Natural Gas & Oil No. 1 Schomacker	C NE SE 27-27-5W	1,465	2,672	2,940	3,746	3,434 ^b	.....	.....	3,801
*Sierra Petro. & Osage Oil No. 1 Frakes	NE NE NW 7-27-6W	1,502	2,790	3,051	3,792	4,024	4,156	4,165	3,513 ^b
O. A. Sutton No. 1 Rollmann	C NW NE 35-27-6W	1,459	2,747	3,009	3,788	4,059	4,163	4,189	4,214
Aviward Drlg. Co. No. 1 Tonn	NE NE SW 3-27-10W	1,740	3,373	3,536	4,036	4,105	4,307	4,386	4,500
H. K. Beardmore No. 1 Blumanhourst	C SE NE 29-28-6W	1,517	2,922	3,184	3,942	.....	.....	.....	4,043
Virginia Drlg. Co. No. 1 Greenleaf	NE NE NW 12-28-7W	1,478	2,846	3,114	3,844	4,112	4,220	4,249	4,276
*John O. Farmer No. 1 Sisters of Charity	C SW SW 4-28-9W	1,612	3,221	3,437	3,996	4,072	4,283	4,354	4,460
Sunray Mid-Continent No. 1 Voth	NW NW SE 4-29-7W	1,613	3,094	3,334	4,075	4,341	4,460	4,472	4,491
Murfin Drlg. & Petro., Inc. No. 1 Rogers	C SE SE 12-29-7W	1,592	3,078	3,327	4,125	4,424	4,526	4,540	4,580
Herndon Drlg. Co. No. 1 Snelling	NE SE SW 24-30-5W	1,469	3,008	3,600	4,212	4,579	4,040 ^b	.....	4,665
Bachus Oil & Natl. Coop. No. 1 Thome	C NW SE 9-30-10W	1,769	3,601	3,798	4,368	4,440	4,630	4,691	4,720
Kiowa									
Aviward Drlg. Co. No. 1 Grizzell	C NE SE 8-27-18W	2,191	4,033	4,201	4,775	4,846	4,944	.....	4,969
Gulf Oil Corp. No. 1 Rice	C NE SE 30-27-18W	2,211	4,027	4,186	4,754	4,808	4,931	.....	4,970
Hilton Drlg. Co. No. 1 Parton	NE NE SE 3-27-19W	2,262	4,043	4,199	4,778	4,540 ^b	.....	.....	4,862

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet		
			Heebner	Lans- K.C.	Missis- sippian hook	Viola	Simp- son		Ar- buckle	
Hilton Drlg. Co. No. 1 Cossel "A," Beardmore & Barbara Oil No. 1 Price "A" Natl. Coop. Refg. Assn. No. 1 Fraser Sunrav Mid-Continent No. 1 Robbins Stickle Drlg. Co. No. 1 Black Rupp-Ferguson Oil Co. No. 1 Ely Mull Drlg. Co. No. 1 Vicux Stickle Drlg. Co. No. 1 Allderice	C NE NE 27-28-19W	2,267	4,106	4,282	4,907	.....	.....	.....	5,010	
	NE NE SW 21-28-20W	2,337	4,210	4,338	4,951	4,865 ^b	.....	.....	5,044	
	C SW SW 6-29-17W	2,232	4,116	4,305	4,883	4,976	5,023	.....	5,065	
	C NE NW 22-29-17W	2,076	3,988	4,178	4,737	4,518 ^b	.....	.....	4,794	
	C SE SE 23-29-20W	2,404	4,336	4,525	5,168	5,145 ^p	.....	.....	5,230	
	C SE SE 16-30-18W	2,230	4,231	4,422	5,052	5,042 ^p	.....	.....	5,115	
	SE SE NE 23-30-18W	2,190	4,232	4,418	5,068	5,037 ^p	.....	.....	5,129	
	C SE NE 22-30-19W	2,287	4,275	4,483	5,126	5,103 ^p	.....	.....	5,230	
	Lane									
	Excelsior Oil Corp. No. 1 Towns	2,770	3,925	3,961	4,572	4,536 ^p	4,916		5,032	5,079
Excelsior Oil Corp. No. 1 Pelton	C SW SW 25-17-29W	2,796	3,965	4,002	4,606	.....	.....	.....	4,750	
	Lincoln									
Brunson-Spines No. 1 Pruitt	SW NE SW 8-10-7W	1,441	808 ^a	2,552	3,177	3,434	3,614	3,470 ^a		3,695
Logan Texas Crude Oil & John O. Farmer No. 1 Uhrich	C NW NW 17-12-35W	3,188	4,012	4,052	4,784	4,385 ^b				4,880

Musgrove Petroleum Corp. No. 1 Plummer Virginia Drig. Co. No. 1 Ney	C SE SE 23-12-35W	3,185	4,015	4,038	4,757	4,397 ^b	.....	.....	5,300	5,315
	C NE NE 4-13-35W	3,074	3,881	3,919	4,636	4,280 ^b	.....	.....	.....	4,750
Lyon Earl M. Knighton No. 1 Edmunds Glickman Oil Co. No. 1 Miller *Rex & Morris No. 1 Bechtel *Frank J. Becker, et al. No. 1 Becker *Rex & Morris No. 1 Schneider *Lyle C. Brecheisen No. 1 Geiger	C SE SE 22-16-11E	1,347	1,000	1,300	2,340	2,890 ^b	2,973	3,030	3,116	3,137
	SE SW NW 18-17-10E	1,263	1,085	1,374	2,348	2,838 ^b	2,940	3,012	3,085	3,105
	SW SE SE 1-21-12E	.....	.....	824	1,828	1,200 ^b	.....	.....	.....	1,850
	SE SE SW 10-21-12E	.....	.....	.....	2,030	.....	2,460	2,485	.....	2,525
	SE SE NE 15-21-12E	.....	.....	975	1,997	1,366 ^b	.....	.....	.....	2,022
	SW SW NE 17-21-12E	.....	.....	.....	2,037	.....	.....	.....	.....	2,062
McPherson *Brunson-Spines No. 1 Lindquist Time Petroleum Co. No. 1 Betrggren Time Petroleum No. 1 Booz O. A. Sutton No. 1 McMurtry Roger F. Williams No. 1 Hammann Brunson-Spines, Inc. No. 1 Thomas Time Petroleum Co. No. 1 Hendrickson	SW SE SE 19-17-2W	1,436	2,114	2,353	3,040	.....	.....	.....	.....	3,051
	NW NW NE 27-18-3W	1,533	2,220	2,438 ^a	3,118	3,316	3,610	3,663	3,708	3,714
	SE SE NE 28-18-3W	1,524	2,228	2,447 ^a	3,140	3,296	3,520	3,640	.....	3,742
	NW NW SE 13-18-4W	1,436	2,163	2,382	3,029	3,251	3,551	3,590	.....	3,649
	SE SE SW 31-18-4W	1,527	2,420	2,656 ^a	3,309	3,526	3,793	3,835	.....	3,852
	SE SE NW 35-19-1W	1,563	2,062	2,306	2,888	.....	.....	.....	.....	2,967
	NE NE NE 5-19-3W	1,523	2,250	2,473 ^a	3,138	3,337	3,640	3,679	3,746	3,776

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface elevation, feet	Depth to top of formation, feet					Total depth, feet		
			Heebner	Lans- K.C.	Missis- sippian hook"	Viola	Simp- son		Ar- buckle	
*Stelbar Oil Corp. No. 1 Heim	NE SE NW 28-20-1W	1,533	.....	2,337 [†]	2,958	3,283	3,492	.....	3,501	
	NW NW SE 18-20-2W	1,510	.....	2,363 [†]	3,024	.....	.....	.....	3,064	
	NW NW NE 32-20-2W	1,510	.....	2,358	3,041	.....	.....	.....	3,058	
	NW NW NE 18-20-3W	1,493	2,268	2,509	3,176	3,466	3,731	3,769	3,832	
	NE NE NE 27-21-1W	1,513	.....	2,355	2,970	3,247	3,474	3,503	3,529	
Marion										
*Paul Koehn No. 1 Ratzloff	CN½ S½ SW 28-18-1E	1,511	.....	2,224	2,814	.....	.....	.....	2,855	
	NE NE SW 10-18-3E	1,387	.....	1,828	2,443	2,607	2,912	3,011	2,752 [†]	
	SE NW NW 34-18-3E	1,354	.....	.....	2,387	2,686 [†]	2,802	.....	2,835	
	SW NW NE 34-19-3E	1,330	.....	1,993 [†]	2,348	2,450	2,656	2,748	2,767	
	NE NE SE 28-19-4E	1,412	.....	1,807	2,342	2,390	2,615	.....	2,657	
	NE SE SE 1-19-5E	1,325	.....	1,480	1,825 ^b	.....	2,059	.....	2,110	
	SE SE SW 11-19-5E	1,397	1,350	1,600	.....	2,120	2,300	2,370	2,460	
	SW SE SW 11-19-5E	1,394	.....	.....	.....	.....	.....	.....	1,006	
	*J. H. Wagner No. 1 Collett									

I. F. Leiker	NE SW SW	1,430	.....	1,599*	.....	2,323	2,345	.....	.....	2,360
No. 1 Graham	35-19-5E									
Anderson-Prichard Oil Co.	E½ E½ NE	1,343	1,585	1,830	2,378	2,452	2,672	2,745	2,805	2,830
No. 1 Schaeffler	4-20-3E									
Burr Oak Development	SW SW SE	1,374	.....	1,929	2,480	2,600	2,819	.....	.....	2,828
No. 1 Williams	20-20-3E									
*Rex & Morris, et al.	NE NE SW	1,386	.....	1,876	2,425	2,484	2,695	2,750	2,845	2,870
No. 1 Carroll	23-20-3E									
*F. W. Vishnfske	SE SE NW	1,395	1,641	1,888	2,441	2,555	2,762	.....	.....	2,787
No. 1 McGuinness	35-20-3E									
*Time Petroleum Co.	SE SE NE	1,433	1,525	1,772	2,283	2,332	2,557	.....	.....	2,610
No. 1 Mehl	2-20-4E									
John T. Hannah	W½ SW SW	1,312	1,504	1,770	2,280	2,332	2,547	.....	.....	2,599
No. 1 Layton	6-20-4E									
*Saline Basin Petro. Co.	SW NE SW	1,374	1,985 ^a	1,820	2,368	.....	2,610	.....	.....	2,634
No. 1 Tipton	19-20-4E									
E. H. Adair Oil Co.	SE SE NE	1,542	2,245	2,340	3,005	3,244	3,470	3,504	3,376 ^a	3,530
No. 1 Unruh	20-21-1E									
F. W. Vishnfske	SE SE SW	1,496	1,922	2,186	2,866	3,050	3,163 ^a	.....	.....	3,173
No. 1 Unruh	33-21-2E									
*Geo. F. Johnston, Jr.	SW NE NE	1,335	2,088 ^b	1,720	2,262	2,313	2,516	.....	.....	2,547
No. 1 Eitzen	4-21-4E									
*Rex & Morris	NE NE SE	1,364	2,068 ^b	1,698	2,361	2,465	2,575	.....	.....	2,590
No. 1 Rice "A"	26-21-5E									
*E. H. Adair Oil Co.	NW NW SW	1,452	2,451 ^b	2,100	2,718	2,868	2,971 ^a	.....	.....	2,985
No. 1 Sterling	21-22-3E									
*Crowe Drig. Co.	SE SE SE	1,491	2,108 ^a	1,855	2,471	2,616	2,728	.....	.....	2,741
No. 1 Stucky	36-22-4E									
*J. A. Allison	NE NE NW	1,436	2,121 ^b	1,751	2,364	2,377	2,487	.....	.....	2,505
No. 1 Jolliffe	3-22-5E									
Marshall										
Shawver-Armour, Inc.	SE SE NE	1,290	1,018	1,088	1,406 ^a	.....	1,610	1,750	.....	2,264 [†]
No. 1 Sedlacek	31-4-8E									

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans.- K.C.	Missis- sippian hook"	Viola	Simp- son	Ar- buckle
Shawver-Armour, Inc. No. 1 Weakley	NW NW NE 26-5-7E	1,303	1,076	1,145	1,492 ^a	1,720	1,856	2,032 [†]
Shawver-Armour No. 1 Flanigan	SE SE NE 33-5-9E	1,344	870	990	1,222 ^a	1,384	1,490	1,665 [†]
Meade								
Skelly Oil Co. No. 1 Meyer	C NW NW 4-32-28W	2,606	4,372	4,513	5,461	.....	.....	5,620
Colorado Oil & Gas, et al. No. 1 Gano	C NW SE 18-32-29W	2,725	4,426	4,558	5,727	.....	.....	5,920
Skelly Oil Co., No. 1 Isaac "A."	C SW NE 14-33-28W	2,511	4,476	4,652	5,801	.....	.....	5,950
Shamrock Oil & Gas Co. No. 1 Heinson	C NW NW 34-33-28W	2,435	4,410	4,565	5,796	.....	.....	5,957
Skelly Oil Co. No. 1 Botling	C SW SE 10-34-27W	2,381	4,486	4,656	4,945	5,325 ^b	.....	6,050
Morris								
*Pack Oil Co. & White & Ellis No. 1 Emilie Herpich	SE SE SE 21-14-5E	1,384	.....	1,625	2,159	1,968 ^c	.....	2,237
*Pack Oil Co. & White & Ellis No. 1 Herpich	SW SW SE 29-14-5E	1,386	.....	1,655	2,186	1,999 ^c	.....	2,236
*Pack Oil, White & Ellis No. 1 Weber	SE SE SE 31-14-5E	1,327	.....	1,605	2,136	1,952 ^c	.....	2,186
*Kaiser-Francis Oil Co. No. 1 Blythe	C NW SW 17-14-6E	1,372	.....	1,562	2,071	1,882 ^c	.....	2,135
*White & Ellis & Oil Trading No. 1 L. Engel	SE SE NW 10-15-5E	1,385	1,455	1,619	2,179	1,957 ^c	.....	2,189
*F. G. Holl No. 2 Whitehair (twin)	NW NW NW 17-15-5E	1,337	.....	1,635	2,145	1,962 ^c	.....	2,182

*White & Ellis	NW NW NE	1,454	.....	1,646	2,168	1,978 ^a	.....	.....	2,213
No. 1 McKimney	9-15-6E								
E. H. Adair Oil Co.	NW NW NW	1,456	.....	1,587	2,085	2,127	1,912 ^b	2,304 ^b	2,320
No. 1 Blythe	36-15-6E								
*Rex & Morris & C.R.A.	SE NE NE	1,457	1,200	1,454	1,780 ^b	1,995 ^b	2,211	2,310	2,407
No. 1 Haun	3-15-7E								
E. H. Adair Oil Co.	SE SE SW	1,435	1,282	1,488	1,800 ^b	2,072 ^b	2,316	2,416	2,520
No. 1 Gehrke	20-15-7E								
E. H. Adair Oil Co.	SE SE NE	1,402	1,146	1,372	1,690 ^b	1,873 ^b	1,985	2,084	2,185
No. 1 Metcalfe	34-15-7E								
Anderson-Pritchard	SW NE SE	1,414	1,101	1,328	1,653 ^b	.....	.....	1,825	1,937
No. 1 Lawrence	35-15-7E								
E. H. Adair Oil Co.	SW SW NE	1,478	1,330	1,558	1,905 ^b	2,145 ^b	2,322	2,403	2,484
No. 1 Lindquist	35-16-6E								
*O. A. Sutton	C SW SW	1,427	1,393	1,668	2,563	2,777	3,084	3,157	2,939 ^b
No. 1 White	28-16-8E								
*Wm. Gruenewald	SE SW SE	1,467	3,076 ^b	1,654	2,631	2,929	3,224	3,307	3,396
No. 2 Bosche	3-16-9E								
Natural Gas & Oil	NE NE NE	1,299	1,264	1,538	2,435	2,684	2,974	3,051	2,833 ^b
No. 1 Alexander	4-17-8E								
Ness									
*Barnett Oil Co.	NW NW NW	2,513	3,848	3,889	4,498	.....	.....	.....	4,505
No. 1 Ummel	11-17-24W								
Barnett Drlg., Inc.	C SW NE	2,473	3,836	3,880	4,496	4,450 ^b	.....	.....	4,576
No. 1 Mishler	22-17-24W								
Honaker-Davis, et al.	NE NE SW	2,167	3,642	3,690	4,256	4,148 ^b	.....	.....	4,286
No. 1 Marshall	15-18-21W								
Natural Gas & Oil Co.	SW SW SW	2,266	3,774	3,820	4,400	4,155 ^b	.....	.....	4,433
No. 1 Moore	26-19-21W								
*O. A. Sutton	NW NE NE	2,267	3,651	3,693	4,289	4,007 ^b	.....	.....	4,342
No. 1 Pfannenstiel	1-19-24W								
Pickrell Drlg. Co.	SW SW SW	2,206	3,766	3,818	4,412	4,390 ^b	.....	.....	4,489
No. 1 Minor	22-20-21W								
Barnett Oil Co.	SW SW SE	2,217	3,697	3,746	4,360	4,330 ^b	.....	.....	4,420
No. 1 Goatley	23-20-22W								

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet	
			Heebner	Lans- K.C.	Missis- sippian hook	Viola	Simp- son		Ar- buckle
Norton									
Empire Drlg. Co. No. 1 McMullen	NE NE NE 19-2-23W	2,412	3,395	3,444	3,634 ^b	1,980 ^a	.....	3,685	3,735†
John O. Farmer No. 1 Ballinger	SE SE SE 23-2-23W	2,281	3,305	3,352	3,544 ^b	1,855 ^a	.....	3,588	3,653†
*Empire Drlg. No. 1 Murphy	NW NW NE 33-2-23W	2,363	3,371	3,414	3,598 ^b	.....	.....	3,636	3,650
Burch Drlg. Co. No. 1 Henderson	SW SW NW 10-3-23W	2,286	3,314	3,354	3,541 ^b	1,863 ^a	.....	.....	3,600
Murfin Drlg. & Aurora Gas No. 1 Schoen	SE SW SE 26-3-25W	2,440	3,433	3,479	3,677 ^b	2,020 ^a	.....	3,805	3,917†
*Leben Drlg., Inc. No. 1 Conkey	NE NE NE 36-4-23W	2,286	3,400	3,443	3,631 ^b	1,875 ^a	.....	.....	3,748†
John O. Farmer No. 1 Thomas	SW NW SE 13-5-21W	2,119	3,272	3,315	3,501 ^b	1,700 ^a	.....	3,552	3,609
C-G Drlg. & N. Appleman No. 1 Archer	NE NE NW 17-5-21W	2,147	3,300	3,346	.....	1,752 ^a	.....	.....	3,636†
C. R. Moffit & C.R.A. No. 1 Voss	SE SE SW 29-5-21W	2,323	3,478	3,523	3,703 ^b	1,930 ^a	.....	.....	3,759
Cities Service Oil Co. No. 1 Thompson	SE SW NW 9-5-22W	2,112	3,239	3,280	3,467 ^b	1,698 ^a	.....	.....	3,634†
*John O. Farmer No. 1 Sullivan "B"	NE NE NE 26-5-23W	2,262	3,400	3,448	3,630 ^b	1,870 ^a	.....	3,785	3,835
Murfin, Rains & Williamson No. 1 Day	C SE SW 27-5-23W	2,314	3,449	3,490	3,680 ^b	1,914 ^a	.....	3,860	3,920
Murfin-Rains-Williamson No. 1 Belden	C NE NE 10-5-24W	2,366	3,448	3,493	3,678 ^b	1,970 ^a	.....	3,830	3,866
Rains & Williamson No. 1 Berry	C SW NE 11-5-24W	2,368	3,464	3,502	3,691 ^b	1,962 ^a	.....	3,843	3,874

Burch Drig. Co. No. 1 Schandler Murfen-Rains-Williamson No. 1 Linden	C SW SE 31-5-24W	2,390	3,499	3,534	3,722"	2,008"	.....	.....	3,734
	SE SW NW 20-5-25W	2,530	3,585	3,621	3,806"	2,133"	.....	4,036	4,070
Osborne Texaco, Inc. No. 1 Thornburg John O. Farmer & N. Appleman No. 1 Knapp *Vanguard Drig., Inc. No. 1 Hogan *Drolte-Christopher No. 1 P. S. Thurston *Drolte-Christopher No. 1 Nichols *Drolte-Christopher No. 1 Mosure	Cen. SW ¼ 24-8-15W	1,848	3,050	3,113	3,586	3,378"	1,140"	.....	3,660
	NW NE SE 22-9-15W	1,996	3,172	3,223	3,490"	1,202"	3,695	3,822	3,925
	SE SE SW 28-9-15W	2,006	3,196	3,251	3,541"	.....	3,782	3,825	3,895
Pawnee E. K. Edmiston No. 1 Ames Natl. Coop. Refg. Assn. No. 1 Balman Thunderbird Drig. No. 1 Balman *McKnab Production Co. No. 1 Wedel D. R. Lauck Oil Co. No. 1 Falt *K & E Drig. Co. No. 1 MacDonnell Hellar Drig. No. 1 Barstow	NW NW SE 11-10-11W	1,760	.....	.....	"Tight Hole"	.....	.....	.....	4,224
	NW NW NW 15-10-11W	1,730	.....	.....	"Tight Hole"	.....	.....	.....	4,144
	C SE SW 21-10-11W	1,685	.....	.....	"Tight Hole"	.....	.....	.....	3,975
SW SW NE 33-20-18W NE NE NE 20-20-19W NE NE SW 21-20-19W NW NW SE 9-21-16W SE SE NW 10-21-19W SE NW SE 1-22-15W SW SW NE 13-22-15W	SW SW NE 33-20-18W	2,140	3,531	3,612	3,887"	1,206"	.....	4,061	4,136
	NE NE NE 20-20-19W	2,180	3,653	3,703	4,268	4,192"	1,310"	.....	4,294
	NE NE SW 21-20-19W	2,211	3,680	3,729	4,272	1,340"	.....	.....	4,295
SE SE NW 9-21-16W SE SE NW 10-21-19W SE NW SE 1-22-15W SW SW NE 13-22-15W	NW NW SE 9-21-16W	1,998	3,388	3,489	3,729"	999"	3,788	3,811	3,882
	SE SE NW 10-21-19W	2,180	3,715	3,770	4,338	4,394	1,315"	.....	4,397
	SE NW SE 1-22-15W	1,965	3,345	3,476	3,705	.....	3,779	.....	3,897
SW SW NE 13-22-15W	SW SW NE 13-22-15W	1,934	3,410	3,542	3,776"	924"	3,912	3,955	4,031

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans- K.C.	Missis- sippian hook	Viola	Simp- son	Ar- buckle
John O. Farmer No. 1 Windmill	SW SW SW 32-22-16W	2,060	3,589	3,710	3,972 ^b	4,153	4,314	4,392
Thos. H. Allan & Tasheff No. 1 Brooks	NW NW SW 9-22-17W	2,039	3,498	3,599	.....	3,993	4,031	4,083
Continental Oil Co. No. 1 Wonn	NE NE SW 24-22-18W	2,078	3,620	3,723	4,210	4,265	4,348	4,415
M. B. Armer No. 1 Anderson	SW SW SE 23-22-20W	2,171	3,734	3,825	4,408	1,290 ^a	.....	.....
Pottawatomie								
Shawver-Armour No. 1 Budenbender	SE SE NE 10-6-8E	1,374	1,020	1,102	1,361 ^b	1,416 ^b	1,716	1,826
Cities Service Oil Co. No. 1 O'Connor	SW SW NE 21-6-9E	1,511	1,080	1,172	1,432 ^b	1,484 ^b	1,666	.....
Vickers Petr. Co. No. 1 Lutz	NW NW NE 10-7-7E	1,264	1,054	1,132	1,420 ^b	1,502 ^b	1,981	2,128
Shawver-Armour No. 1 Stelter	C SW SW 4-7-8E	1,427	1,156	1,236	1,518 ^b	1,604 ^b	1,832	1,924
Seneca Mfg. & Glickman Oil No. 1 Henery	NW NW NW 13-7-8E	1,388	1,070	1,159	.....	1,495 ^b	1,862	1,955
Glickman Oil Co. No. 1 Matzke	SW SW NW 17-7-10E	1,418	929	1,045	1,305 ^b	1,376 ^b	1,510	1,610
Vickers Petroleum Co. No. 1 Hartwick	NW NW SW 19-7-11E	1,268	685	827	.....	.....	1,220	1,272
E. H. Adair & Gearhart-Canaday No. 1 Stoffer	NE NE SW 1-8-7E	1,296	1,080	1,171	.....	1,550 ^b	2,042	2,125
Vickers Petroleum Co. No. 1 Bairow	SW NW SE 26-8-10E	1,180	671	826	1,115 ^b	1,242 ^b	1,411	1,511

Kaiser-Francis	SE SW SW	1,314	1,002	1,136	1,428 ^b	1,553 ^b	2,068	2,145	.....	2,308 [†]
No. 1 Roesener	14-9-8E									
Gearhart-Canaday Drlg.	NW NW NW	1,216	942	1,074	1,362 ^b	1,482 ^b	1,979	2,100	.....	2,212 [†]
No. 1 Eikenhorst	16-9-8E									
Francis-Kaiser	SE SE SE	1,239	909	1,054	1,342 ^b	1,475 ^b	1,934	2,010	.....	2,161 [†]
No. 1 Unterberger	24-9-8E									
Francis-Kaiser	SW SW SW	1,108	759	902	1,196 ^b	1,339 ^b	1,774	1,860	.....	2,006 [†]
No. 1 Glenn	35-9-8E									
Kaiser-Francis	SE SE SE	1,178	838	988	1,277 ^b	1,404 ^b	1,874	1,949	.....	2,095 [†]
No. 1 Woodard	36-9-8E									
*Corb Bedell	NE NE SW	1,219	734	892	1,180 ^b	.....	.....	.....	.....	1,296 [†]
No. 1 Gerhardt	2-10-9E									
Pratt										
Stickle Drlg. Co.	C NW SE	2,055	3,742	3,907	.....	4,375	4,403	4,604	4,663	4,690
No. 1 Curtis	20-26-15W									
*Hudson Petroleum	SE NW SE	1,923	3,628	3,818	4,264	4,283	4,308	4,365	.....	4,411
No. 1 Hacker	22-27-13W									
Artnell Co.	C SE NE	1,805	3,504	3,684	4,136	4,194	4,349	4,444	.....	4,490
No. 1 Dudley "A"	28-28-11W									
Wilkinson Drlg., Inc.	SW NE NE	1,899	3,614	3,816	4,268	4,374	4,420	4,539	.....	4,552
No. 1 Dietz Est.	31-28-12W									
Wilkinson Drlg. Co.	NE NE NE	1,912	3,626	3,822	4,270	4,382	4,426	4,541	.....	4,561
No. 2 Dietz Est.	31-28-12W									
Amerada Petroleum Corp.	C SW SW	1,891	3,630	3,825	4,254	4,342	4,353	4,411	4,533	4,570
No. 1 Devlin	11-28-13W									
Tomlinson-Kathol, Inc.	NE NW NW	2,022	3,798	3,978	4,469	.....	4,530	4,626	4,700	4,745
No. 1 Moore	6-28-14W									
Twin Drlg. Co.	NW NW NW	2,057	3,941	4,111	4,613	4,626	4,722	4,810	4,925	4,935
No. 1 Campbell	33-28-15W									
Drillers & Exp.	SW NE SE	1,811	3,650	3,838	4,354	4,416	4,600	4,680	4,775	4,805
No. 1 Titus "A"	27-29-11W									
*Twin Drlg., Inc.	C NE NE	1,960	3,821	4,005	4,541	4,565	4,606	4,702	.....	4,713
No. 1 Lambert	30-29-13W									

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet		
			Heebner	Lans- K.C.	Missis- sippian	"Kinder hook"	Viola		Simp- son	Ar- buckle
Mull Drig. Co., Inc. No. 1 Kerr	NE NE NE 27-29-14W	1,986	3,821	4,015	.....	.....	4,510	4,552	4,665	4,690
Rawlins										
Imperial Oil No. 1 Fikan	SE NW NW 14-1-34W	3,144	3,999	4,056	4,665	2,989 ^a	4,554	.....	.....	4,758 [†]
Twin Drig., Inc. No. 1 Vanchuta	SW SW SE 13-1-36W	3,268	3,185 ^a	4,218	4,884	4,503 ^b	.....	.....	5,008	5,052
Amerada Petroleum Co. No. 1 Hesterman	C SW NE 31-2-32W	2,923	3,864	3,908	4,500	2,710 ^a	4,156 ^b	.....	4,594	4,648
K & E Drig. & Bradley Bros. No. 1 Focke	NW NW SE 16-2-34W	3,136	4,010	4,053	4,677	2,950 ^a	5,046 ^r	.....	4,816	5,091 [†]
Imperial Oil of Kansas No. 1 Lintner	C NE SE 24-2-34W	3,014	3,899	3,943	4,563	2,797 ^a	4,202 ^b	.....	.....	4,635
Skelly Oil Co. No. 1 Ankle	SE NW NE 32-2-34W	3,039	3,920	3,956	4,575	2,808 ^a	4,964 ^r	.....	4,727	5,001
Imperial Oil of Kansas No. 1 Skolout	SE SE NE 1-2-35W	3,197	4,081	4,130	4,769	3,039 ^a	4,388 ^b	.....	4,900	4,947
Skelly Oil Co. No. 1 Severns	NW NW SW 15-2-35W	3,202	4,094	4,146	4,822	3,058 ^a	4,412 ^b	.....	4,951	4,979
W. W. Sauvage No. 1 Cederberg	SW SW SW 23-3-31W	2,874	3,885	3,927	4,486	.....	4,152 ^b	.....	4,563	4,605
Lee Phillips, et al. No. 1 Bastian	SE SE SE 10-3-32W	2,977	3,926	3,959	4,541	.....	4,212 ^b	.....	4,634	4,655
John O. Farmer No. 1 Fikan	C NE SE 11-3-33W	2,910	3,822	3,866	4,482	2,665 ^a	4,108 ^b	.....	4,584	4,605
General Crude Oil Co. No. 1 Schmidt	C SW SE 18-4-31W	2,787	3,778	3,824	4,388	2,550 ^a	4,056 ^b	.....	4,482	4,590

Amerada Petroleum No. 1 Horton	C NW NE 31-4-33W	3,173	4,064	4,108	4,714	2,870 ^a	4,253 ^b	.....	.....	4,820
A. K. Mery & Inter-Trans. Inc. No. 1 Nash	C SW SW 28-4-34W	3,204	4,063	4,108	4,698	2,890 ^a	4,347 ^b	.....	.....	4,797
K & E Drlg. & Bradley Bros. No. 1 Wallace	NE NE NW 27-4-35W	3,155	4,024	4,066	4,680	2,845 ^a	4,316 ^b	.....	4,896	4,960
Lee Phillips No. 1 Crawford	SE SE SE 3-5-31W	2,896	3,868	3,917	.....	2,615 ^a	4,134 ^b	.....	.....	4,175
John O. Farmer No. 1 Barcus	C SE SW 35-5-31W	2,968	3,862	4,010	4,546	2,665 ^a	4,238 ^b	.....	.....	4,647
Amerada Petroleum No. 1 Gatlin	C NE SE 15-5-33W	3,976	3,857	3,907	4,512	2,630 ^a	4,147 ^b	.....	4,702	4,752
John O. Farmer & Musgrove Petro. No. 1 Henneberger	C SW SW 8-5-34W	3,235	4,094	4,142	4,738	.....	4,384 ^b	.....	.....	4,822
John O. Farmer No. 1 Falconer	C NW NW 12-5-34W	3,207	4,089	4,137	4,737	.....	4,379 ^b	.....	.....	4,820
John O. Farmer & Texas Crude Oil No. 1 Everiss	C NE SE 35-5-35W	3,293	4,141	4,190	4,839	2,949 ^a	4,440 ^b	.....	.....	4,950
Reno										
Natural Gas & Oil Co. No. 1 Becker	C SW NW 22-22-4W	1,461	2,378	2,607	3,320	3,592 ^b	3,854	3,870	3,962	3,983
Rupp-Ferguson Oil Co. No. 1 Wittorff	C SE NE 9-22-5W	1,520	2,542	2,767	3,416	3,648	3,907	3,930	3,806 ^b	3,935
Brunson-Spines, Inc. No. 2 Phillips	SW NW NE 22-22-6W	1,565	2,650	2,869	3,525	3,672	3,812 ^b	3,277 ^b	.....	3,845
Bennett & Gould No. 1 Campbell	SW SW SE 35-22-7W	1,574	2,754	2,956	3,558	3,386 ^b	.....	.....	.....	3,631
Rupp-Ferguson Oil Co. No. 1 Simpson	SE SE SE 3-23-7W	1,579	2,778	2,989	3,560	.....	.....	.....	.....	3,590
Foraker & Brooks, et al. No. 1 Graham	SW SW SE 4-23-7W	1,606	2,832	3,024	3,606	.....	.....	.....	.....	3,616
Artnell Co. No. 1 Fassnacht	SW SW NE 28-24-10W	1,715	3,165	3,368	3,776	3,824	3,970	4,082	.....	4,121

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet		
			Heebner	Lans- K.C.	Missis- sippian hook	Viola	Simp- son		Ar- buckle	
*Rupp-Ferguson Oil Co. No. 1 Blocker *Rupp-Ferguson No. 1 Vassery Shawver-Armour, Inc., et al. No. 1 Linscheid	SE SE SE 19-25-4W	1,525	.....	2,802	3,573	3,842	4,009	4,025	.....	4,039
	SW SW NW 1-25-6W	1,531	2,619	2,871	3,558	.....	.....	.....	.....	3,610
	NW NW NE 2-25-8W	1,613	3,003	3,210	3,784	3,894	4,132	4,145	4,224	4,250
	SE SE NW 13-26-5W	1,442	2,588	2,829	3,589	3,863	4,013	4,024	3,298 ^b	4,040
	SW SW SE 23-26-5W	1,409	2,571	2,835	3,564	3,835	3,984	3,996	3,284 ^b	4,032
*Aurora Gasoline Co. No. 1 Irsik Twin Drlg. Co. No. 1 Blocker Aylward Drlg. Co. No. 1 Treadway	SW NW NE 34-26-10W	1,706	3,322	3,500	4,014	4,062	4,264	4,341	4,429	4,450
	Rice									
	NW NW SE 14-18-6W	1,667	.....	2,850	3,456	3,414 ^b	.....	.....	.....	3,490
	SE SE NW 16-19-7W	1,757	2,734	2,894	.....	3,344	3,516	3,543	3,616	3,638
	SE NW NW 11-21-9W	1,673	2,756	2,919	3,225 ^b	.....	3,314	3,339	.....	3,374
Lee Phillips No. 1 Fair Riley Corb Bedell No. 1 Schepp Don Slawson, et al. No. 1 Rannels E. H. Adair Oil Co. No. 1 Rannels	NE SW SE 17-21-9W	1,685	2,801	2,959	3,262 ^b	.....	3,388	3,446	3,517	3,525
	SE SE SE 35-10-8E	1,183	882	1,023	1,478 ^b	1,455	1,990	2,068	.....	2,208 [†]
	SE SE NE 4-11-8E	1,293	1,006	1,171	1,498 ^b	1,633 ^b	.....	.....	.....	1,697
	SE SE SE 9-11-8E	1,249	988	1,142	1,473 ^b	1,572	2,143	1,670 ^b	.....	2,165

Cities Service Oil Co.	SW SE NE	1,279	.....	1,151	1,489 ^b	1,600	2,130	2,260	1,677 ^a	2,368 ⁺
No. 1 Haylett	14-11-8E									
Cities Service	SW SW NE	1,286	844	1,016	1,323 ^b	.....	.....	.....	.....	1,423 ⁺
No. 1 Willig	18-11-9E									
*Tom Palmer	SE SE NW	1,483	1,122	1,303	1,815 ^a	1,784	2,241	2,358	2,450	2,507 ⁺
No. 3 Smokey Ridge	28-11-9E									
Tom Palmer	C SW NE	1,504	1,129	1,315	1,620 ^b	1,834 ^a	2,221	2,302	2,427	2,447
No. 2 Smokey Ridge	33-11-9E									
Rooks										
C-G Drig. Co.	NE NE SW	2,136	3,334	3,370	3,568 ^b	.....	.....	.....	.....	3,645 ⁺
No. 1 Witt	3-6-20W									
Leben Drig.	NE NE SW	2,203	3,398	3,432	3,628 ^b	.....	.....	.....	3,652 ⁺	3,696 ⁺
No. 1 Triple	16-6-20W									
Woodman-Iannitti	NW NW SW	2,233	3,441	3,479	3,671 ^b	.....	.....	.....	3,732	3,798 ⁺
No. 1 Nicholls	18-6-20W									
Bennett & Roberts	NW NW NW	1,967	3,121	3,163	3,370 ^b	.....	.....	.....	3,460	3,490
No. 1 Schruben	16-7-19W									
C-G Drig. & Holly Oil	NE NE SW	1,992	3,094	3,135	3,372 ^b	.....	.....	.....	3,436	3,474
No. 1 Hrabe "A"	26-8-17W									
John O. Farmer & N. Appleman Co.	NE NE SW	1,968	3,104	3,149	3,366 ^b	.....	.....	.....	3,454	3,488
No. 1 Peaslee	9-8-18W									
*Leben Drig., Inc.	SW SW NE	2,003	3,178	3,215	.....	.....	.....	.....	3,472	3,500
No. 1 Lowry	30-8-19W									
Helmerich & Payne	NW NE SE	2,031	3,169	3,212	3,475 ^b	.....	.....	.....	.....	3,650
No. 1 Pfortmiller	36-9-16W									
Davis Bros. & Transit Corp.	C NW NE	1,948	3,090	3,131	3,375 ^b	.....	.....	.....	3,476	3,506
No. 1 Fritts "A"	18-10-16W									
Rush										
*V-Do Oil Co.	NE SW NW	1,997	3,232	3,283	1,120 ^a	.....	.....	3,567 ⁺	3,562	3,575
No. 1 Holzmeister	8-16-17W									
Davis Bros. & Transit Corp.	C SW NE	2,050	3,403	3,452	1,191 ^a	3,730 ^b	.....	.....	3,911	3,931
No. 1 Bailey "A"	19-18-18W									

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet		
			Heebner	Lans.- K.C.	Missis- sippian hook"	Viola	Simp- son buckle		Ar- buckle	
R. W. Shields No. 1 George Leben Drlg. Co. No. 1 Harris "A" Alva Oil Corp. No. 1 Hagerman	SW SW SW 3-18-20W	2,160	3,594	3,638	4,184	1,380 ^a	4,284	3,948 ^b	4,367	4,515
	SW SW NW 33-19-18W	2,226	3,620	3,666	1,330 ^a	3,964 ^b	.....	.....	4,107	4,132
	NE NE SE 36-19-20W	2,278	3,764	3,812	4,381	1,440 ^a	4,112 ^b	.....	.....	4,429
Russell										
Howard Fink No. 1 Jennrich Coop. Refg. Assn. No. 1 Davis "Q"	NW NW SW 24-12-15W	1,814	2,928	2,981	870 ^a	.....	3,235 ^b	.....	3,267	3,300
John P. Habiger No. 1 Janousek John O. Farmer, Inc. No. 1 Holland	NE NE NE 34-12-15W	1,811	2,938	2,988	887 ^a	.....	.....	.....	3,255	3,275
A. F. Schmidt No. 1 Brungardt Leben Drlg., Inc. No. 1 Beisel	C SW SW 11-13-11W	1,459	2,560	2,650	350 ^a	2,934 ^b	.....	.....	3,350	3,402
Louise M. Mai No. 1 Karst	SE SE SW 32-13-13W	1,856	2,951	3,016	820 ^a	3,283 ^b	.....	.....	3,364	3,390
	SW SW NW 14-13-15W	1,824	2,938	2,990	884 ^a	.....	.....	.....	3,258	3,300
	SW SW NE 17-14-11W	1,692	2,703	2,801	520 ^a	3,111 ^b	.....	.....	3,198	3,200
	SE SE NE 22-15-15W	1,890	3,070	3,131	926 ^a	.....	.....	.....	3,379	3,430
Saline										
Glickman Oil Co. No. 1 Mynatt Glickman Oil Co. No. 1 Royal	NW NE SE 8-13-1W	1,183	1,636	1,800	2,432	2,831 ^b	3,044	3,152	3,232	3,245
	NW NW NW 24-13-2W	1,344	1,844	2,021	2,672	3,048 ^b	3,258	3,358	3,447	3,460

*Kaiser-Francis No. 1 Schippel	C NW NW 29-13-2W	1,307	1,890	2,087	2,737	2,960	3,100 ^b	.....	.....	3,135
*Veeder Supply & Dev. Co. No. 1 Schippel "A"	C NW NE 30-13-2W	1,276	1,871	2,074	2,730	2,937	3,310	3,415	3,079 ^a	3,440
C-G Drig. Co. & N. Appleman No. 1 Weiss	SE SE NW 13-13-4W	1,298	2,102	2,300	2,986	3,300	3,633	3,730	3,434 ^a	3,781
*Don McKellar No. 1 Donmeyer	E½ SE SW 12-14-1W	1,274	.....	1,891	2,550	2,726	3,172	.....	2,927 ^a	3,190
*Don McKellar No. 1 Knight	SW SW NW 24-14-1W	1,278	.....	1,927	2,574	.....	.....	.....	.....	2,616
*Don McKellar No. 1 Satterlee	NE SE SW 2-15-1W	1,250	.....	1,906	2,580	.....	.....	.....	.....	2,594
*Don McKellar No. 1 Peck	NW SW SE 3-15-1W	1,216	.....	1,892	2,552	.....	.....	.....	.....	2,575
*Don McKellar No. 1 Daisy Heath	W½ SW NW 11-15-1W	1,261	.....	2,029	2,569	2,259 ^b	.....	.....	.....	2,583
*F. S. Williams No. 1 McLin	NW NW SW 11-15-1W	1,250	.....	1,912	2,577	2,250 ^b	.....	.....	.....	2,592
Solar Oil Co. No. 1 Ade	SE NW NW 35-16-1W	1,325	.....	2,031	2,662	.....	.....	.....	.....	2,715
Scott										
Phillips Petroleum Co. No. 1 Leoti	C NE SE 6-16-34W	3,158	.....	.....	.....	"Tight Hole"	.....	.....	.....	3,210
W. Caldwell & Bill Burch No. 1 Griffith	C NW SE 13-17-32W	2,971	3,945	3,983	4,630	2,294 ^a	.....	.....	.....	4,665
Sedgwick										
*Hudson Petroleum Co. No. 1 Mark	SE NE SE 26-25-1E	1,409	2,002	2,235	3,009	3,354	2,711 ^b	3,429 ^a	.....	3,451
*John P. Gaty No. 1 Bodecker "B"	NW SE NE 26-25-2E	1,361	.....	2,393	2,830	3,108	2,555 ^b	3,188 ^a	.....	3,195
*John P. Gaty No. 1 Claassen	NW NE NW 35-25-2E	1,400	.....	2,435	2,886	3,195	2,605 ^b	3,258 ^a	.....	3,270

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet						Total depth, feet	
			Heebner	Langs- K.C.	Missis- sippian hook"	Viola	Simp- son	Ar- buckle		
*E. H. Adair Oil Co. No. 1 Newcomer Shawver-Armour No. 1 Jones *Donald C. Slawson No. 1 Nelson *John P. Gaty No. 1 Humbolt Halliburton Oil Prod. Co. No. 1 Burge	S½ SW NE 3-26-1E	1,369	2,711 ^b	2,303	3,021	3,359	3,461	3,481	3,439 ^b	3,532
	SW SE NW 27-29-1E	1,239	.....	2,723	3,263	3,626	2,949 ^b	3,695	3,742	3,722
	SE SE NW 36-29-1E	1,232	.....	2,638	3,137	3,475	2,872 ^b	3,548	.....	3,570
	SE SE SE 23-29-2E	1,317	.....	2,552	3,042	3,305	2,778 ^b	3,401	3,457	3,474
	SE SE NE 4-26-1W	1,358	2,615	2,710	3,325	.....	3,760	3,790	3,867	3,895
	SW SW NE 18-29-2W	1,313	2,480	2,703	3,618	4,004	3,212 ^b	4,079	.....	4,122
	SE SE SE 28-29-3W	1,333	.....	3,167	3,796	4,228	3,363 ^b	4,337	.....	4,356
	C SW NW 29-29-4W	1,406	2,805	3,368	3,982	4,360	3,578 ^b	4,441	.....	4,448
Seward										
Cabot Carbon Co. No. 1 U. S. Govt. Ut. Cabot Carbon Co. No. 1 Olds Ut. Tennessee Gas Trans. Co. No. 1 McCreight	C SE NW 25-32-34W	2,874	4,190	4,340	5,815	.....	.....	.....	.....	6,386
	C NW SE 1-33-32W	2,785	4,258	4,390	5,650	.....	.....	.....	.....	6,128
	C NE SW 11-35-31W	2,681	4,458	4,616	6,036	.....	.....	.....	.....	6,260
Sheridan										
John O. Farmer & N. Appleman Co. No. 1 Scott Empire Drlg. Co. No. 1 Dutton	NW NW SE 2-6-26W	2,517	3,569	3,610	3,798 ^b	2,122 ^a	.....	.....	.....	3,805
	SW SW SW 26-6-27W	2,699	3,863	3,903	4,113 ^b	2,408 ^a	.....	.....	.....	4,125

White Eagle Oil Co. No. 1 Lewis	SE SE SE 28-6-27W	2,702	3,834	3,877	4,400	4,086"	4,496	4,580	4,596	4,615
Leben Drig. Co. No. 1 Cooper	SW SW SW 23-6-28W	2,662	3,796	3,840	4,358	2,410"	4,052"	.....	.....	4,408
Empire Drig. Co. No. 1 Selbe	SW SW SW 6-7-27W	2,729	3,879	3,923	4,448	2,453"	4,130"	.....	.....	4,500
Empire Drig. Co. No. 1 Moss	NW NW SW 24-7-30W	2,917	3,959	4,000	.....	2,579"	4,230"	.....	.....	4,251
Murfin Drig. & Aurora No. 1 Farber	SE SE SE 32-7-30W	2,937	3,988	4,025	.....	2,221"	.....	.....	.....	4,275
Leben Drig., Inc. No. 1 Brown	C NE SE 25-8-27W	2,595	3,723	3,762	.....	2,220"	3,980"	.....	.....	3,990
Empire Drig. Co. No. 1 Mann	NW NW NW 8-8-29W	2,891	3,976	4,013	.....	2,556"	4,254"	.....	.....	4,260
Aurora Gasoline Co. No. 1 Koster	NE NE SE 31-8-29W	2,888	3,947	3,980	.....	2,515"	4,230"	.....	.....	4,245
John O. Farmer No. 1 Reinert	NW NW SW 33-8-29W	2,849	3,915	3,953	.....	2,465"	4,197"	.....	.....	4,200
John O. Farmer No. 1 Mickey	NW NW NE 34-8-29W	2,818	3,886	3,924	.....	2,432"	4,167"	.....	.....	4,170
Kimbark Exp. No. 1 Ringer	NE NE NE 31-9-26W	2,634	3,786	3,824	.....	2,220"	4,054"	.....	.....	4,080
Empire Drig. Co. No. 1 Westphal	C SE NW 26-9-28W	2,782	3,885	3,922	.....	2,381"	4,150"	.....	.....	4,155
Empire Drig. Co. No. 1 Patmon	SE SE NE 5-9-29W	2,857	3,929	3,970	4,515	2,483"	4,209"	.....	.....	4,525
*Empire Drig. Co. No. 1 Pratt	SE SE SW 9-9-29W	2,819	3,882	3,921	.....	2,433"	4,169"	.....	.....	4,180
Leben Drig. & Bell Oil & Gas No. 1 Martin	C SE SE 18-10-26W	2,617	3,829	3,874	4,449	2,242"	4,102"	.....	.....	4,460
Kimbark Exp. No. 1 Roberts	SE SE NE 31-10-26W	2,580	3,780	3,819	.....	2,173"	4,061"	.....	.....	4,075

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans- K.C.	Missis- sippian	"Kinder hook"	Viola	
Empire Drlg. Co. No. 1 Kennedy	SE SE NW 19-10-28W	2,728	3,804	3,843	.....	2,292 ^a	4,104 ^b	4,120
	NE NE SW 27-10-28W	2,736	3,827	3,866	4,430	2,298 ^a	4,118 ^b	4,492
Imperial Oil of Kansas No. 1 Donovan	SE SE SW 23-10-29W	2,791	3,862	3,904	.....	2,179 ^a	4,155 ^b	4,170
	SE SE NE 25-10-29W	2,772	3,861	3,901	.....	2,348 ^a	4,158 ^b	4,165
Thodore Gore No. 1 Rehmer	NE NE SW 7-10-30W	2,956	3,974	4,017	4,606	2,530 ^a	4,318 ^b	4,660
Sherman Norbla Oil Co. No. 1 De Fries	C NE NW 22-6-41W	3,709	4,407	4,462	5,293	3,338 ^a	4,776 ^b	5,400
	C SE NW 33-6-41W	3,767	4,452	4,509	5,331	3,365 ^a	4,813 ^b	5,437
*James Oil Co. No. 1 Pate	C NW SW 19-8-37W	3,528	4,258	4,303	5,030	.....	4,638 ^b	5,165
	C SE NW 23-8-39W	3,633	4,329	4,376	5,140	3,140 ^a	4,698 ^b	5,240
Musgrove Petroleum No. 1 Trachsel	C SW SW 10-8-42W	3,877	4,485	4,537	5,358	3,370 ^a	4,838 ^b	5,418
	Badger Drillers, Inc. No. 1 House	3,622	4,278	4,329	5,090	3,075 ^a	4,674 ^b	5,550
James Oil No. 1 Murray	C SW SE 35-9-40W	3,710	4,301	4,350	5,143	3,065 ^a	4,690 ^b	5,280
Stafford *Jay Bergman Oil Co. No. 1 Fair	NW NW SE 23-21-11W	1,736	2,929	3,082	.....	.....	3,365	3,445
								3,450

*Petroleum, Inc. No. 1 Fair "E" Jay Bergman Oil Co. No. 1 Frick Raymond Oil Co. No. 1 Eriksen *Hudson Petroleum Co. No. 1 Schlridge *Strata Drilg., Inc. No. 1 Osborne *Kaiser-Francis No. 1 Bostwick Musgrove Petroleum Corp. No. 1 Schaefer Pure Oil Co. No. 1 Brock *Artinell Co. No. 1 Slade	NW NW SE 23-21-11W	1,736	440*	.....	"Hole abandoned"	.....	490
	NW NW SW 25-21-11W	1,751	2,944	3,099	450*	3,362 ^b	3,419 3,434 3,472 3,480
	NW NW NW 27-21-11W	1,743	2,950	3,102	460*	3,346 ^b	 3,400 3,445 3,537
	SW SW SW 25-23-13W	1,891	3,309	3,476	.....	.....	3,803 3,884 3,940 4,015
	SW SW SW 29-23-14W	1,982	3,458	3,605	.....	.....	3,943 4,024 4,088 4,110
Stanton	NW NW SW 20-24-12W	1,894	3,357	3,538	.....	3,812 ^b	3,942 4,062 4,122 4,152
	NE SW NE 9-25-12W	1,883	3,363	3,545	700*	3,834 ^b	3,944 4,069 4,144 4,179
	SE NW NE 25-25-12W	1,835	3,356	3,542	3,912	3,964	4,010 4,115 4,192 4,218
	NE NW SE 25-25-13W	1,915	3,480	3,664	4,075	4,092	4,104 4,210 3,983 ^b 4,222
	NE NE NE 27-27-41W	3,328	3,694	3,750	5,326	1,718*	4,311 ^b 5,488
Musgrove Petroleum, et al. No. 1 Winger Musgrove Petro. & N. C. R. A. No. 1 Cockrum Pan American Petro. Corp. No. 2 Baughman Gu. "A" Robert J. Beams No. 1 Burchfield Ashland Oil & Refg. No. 1 Burnett Pan American Petro. Corp. No. 2 Citizens St. Bank	C SW NE 16-27-42W	3,455	3,651	3,712	5,394	1,692*	4,259 ^b 5,596
	SW SW NE 32-29-39W	3,224	3,728	3,798	5,556	.....	..... 5,875
	Gen. SE 1/4 30-29-42W	3,562	3,616	3,693	5,460	1,534*	4,221 ^b 5,561
	C NW SW 25-29-43W	3,610	3,617	3,720	5,541	.....	..... 5,564
	SW SW NE 26-30-35W	3,155	.....	.....	5,707	.....	..... 5,901

TABLE 30.—*Dry wildcat tests drilled in 1959, continued*

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans.- K.C.	Missis- sipplian	"Kinder hook"	Viola		Simp- son	Ar- buckle
Stevens								
Shell Oil Co. No. 1-27 Moore	C NE SW 27-32-35W	2,978	4,192	4,312	6,040	2,780'	.....	6,220
Shell Oil Co. No. 1-18 Citizens St. Bank	C SW SE 18-32-36W	3,094	4,170	4,312	6,103	2,776'	.....	6,298
Shell Oil Co. No. 1-22 Finley	C SW SE 22-32-36W	3,064	4,137	4,261	5,999	2,762'	.....	6,293
Shell Oil Co. No. 1-36 Lightcap	C NE NW 36-32-37W	3,133	4,150	4,316	6,125	2,760'	.....	6,334
Shell Oil Co. No. 1-17 Sandy	C NE SW 17-33-35W	2,991	4,197	4,290	6,024	2,782'	.....	6,335
Sinclair & Northern National No. 1 Kenny	C NW SE 22-33-35W	2,971	4,254	4,358	6,092	1,720'	2,780'	6,480
Shell Oil Co. No. 1-14 Brown	C SE NW 14-33-36W	3,048	4,150	4,231	6,066	2,757'	.....	6,349
Shell Oil Co. No. 1-36 Carlisle	C SE NW 36-34-36W	3,031	4,317	4,452	6,320	.....	.....	6,640
Sumner								
*J. S. Sutton No. 1 Butts	SE SE NE 2-30-1E	1,231	.....	.....	3,187	2,312"	2,880 ^b	3,285
Hallmark Petroleum Co. No. 1 Quinn	SW SW NE 15-30-2E	1,260	.....	2,280	3,181	2,295"	.....	3,197
Wm. Gruenewald No. 1 Brookings	SW SW NE 15-31-1E	1,225	2,182	2,837 ^a	3,489	3,835	3,085 ^b	3,973
Beardmore Drig. Co. No. 1 Morrell	SE SW NE 20-31-1E	1,311	.....	2,932 ^a	3,590	.....	4,038	4,046
H. H. Blair No. 1 George	NE NE SW 2-32-1E	1,265	.....	2,893 ^a	3,510	3,889	3,909	3,964
								3,985

Mesa Petroleum Co. No. 1 Luther	NW NW SW 28-32-1E	1,210	2,296	2,996*	3,615	.....	3,232 ^b	4,078	4,124	4,180
Gulf Oil Corp., et al. No. 1 Welfelt	SW SW NE 13-33-1E	1,171	2,140	2,930	3,448	3,730	3,124 ^b	3,772	3,845	3,860
Pickrell Drilg. Co. No. 1 Potucek "A"	SW SE SE 14-33-1E	1,156	2,150	2,949*	3,490	3,772	3,135 ^b	3,793	.....	3,840
Herndon Drilg. Co. No. 1 Thorpe	SE NW NE 34-33-1E	1,265	2,290	3,130	3,631	.....	3,285 ^b	3,964	.....	4,018
Walters Drilg. & Benedict Oil No. 1 Swain	SW NE NE 6-34-1E	1,212	.....	3,248*	3,860	4,204	3,445 ^b	4,268	4,374	4,390
Bedell-Catt Drilg. No. 1 Stunkel	NE NE SE 25-30-1W	1,252	3,089 ^b	2,849*	3,478	3,830	3,860	3,882	.....	3,923
Shawver-Armour No. 1 Cooper	NE NE SE 30-30-1W	1,293	.....	3,037*	3,682	3,975	3,270 ^b	4,036	.....	4,062
Shawver-Armour No. 1 Chitwood	NE SE NE 31-30-2W	1,344	2,530	3,155*	3,803	4,162	.....	4,226	.....	4,251
Shawver-Armour No. 1 Clark "BW"	SE SE SE 22-30-3W	1,311	.....	3,172	2,788	4,174	.....	4,250	.....	4,260
Shawver-Armour No. 1 Jenkins	NE NE SW 34-30-3W	1,333	.....	3,227*	3,851	4,217	.....	4,285	.....	4,312
Shawver-Armour, Inc. No. 1 Rasch	NE NE SE 2-31-1W	1,292	2,671	2,965*	3,625	3,961	.....	4,012	.....	4,033
H & H Drilg. Co. No. 1 Ashton	C SE SW 4-31-2W	1,306	2,883*	3,136*	3,797	.....	.....	4,262	.....	4,318
McKnab-Lindsay No. 1 Burford	SW NW NE 3-31-4W	1,412	3,194*	3,482*	4,151	.....	.....	.....	.....	4,194
Petroleum, Inc. No. 1 Shore	NE NW SW 31-32-1W	1,257	2,537	3,214	3,886	4,250	2,926*	4,320	3,472 ^b	4,377
Prime Drilg. & Coop. Refg. Assn. No. 1 Southwestern College	NE NE SW 4-32-2W	1,305	2,580	3,215*	3,881	4,250	2,906*	4,318	.....	4,338
Dorset Co. No. 1 Ferguson	NE SW SW 29-32-3W	1,190	2,620	3,250*	3,927	4,284	2,940*	4,373	.....	4,382
E. H. Adair & A. F. Brann No. 2 Pearce	C NW SE 34-32-4W	1,246	.....	3,409	4,102	4,449	3,100*	4,537	.....	4,542

TABLE 30.—Dry wildcat tests drilled in 1959, continued

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet			
			Heebner	Lans- K.C.	Missis- sippian	"Kinder hook"	Viola		Simp- son	Ar- buckle	
Herndon Drlg. Co.	NE SW SW 35-32-4W	1,231	.....	3,306 ¹	3,950	4,221	2,970 ^a	4,306	.....	4,310	
	SW SW SW 2-33-4W	1,274	2,775	3,412 ¹	4,120	4,416	3,174 ^a	4,499	.....	4,504	
	NE SE SE 30-34-1W	1,162	2,610	3,515 ¹	4,152	4,520	3,003 ^a	4,624	.....	4,690	
	NW NW NE 33-34-2W	1,120	.....	3,500 ¹	4,175	3,700 ^b	3,039 ^a	.....	.....	4,442	
	SW SW NE 2-34-3W	1,146	3,728 ^b	3,465 ¹	4,199	4,530	4,590	4,603	.....	4,647	
	SW NW NW 12-34-4W	1,223	2,879	3,571 ¹	4,290	4,547	.....	4,710	.....	4,741	
	C NE NE 7-6-32W	3,045	3,954	4,002	4,560	2,700 ^a	4,267 ^b	.....	.....	4,670	
	C NE NE 10-7-32W	2,998	3,948	3,993	4,560	2,650 ^a	4,245 ^b	.....	.....	4,662	
	C SW SW 17-7-32W	3,058	3,995	4,044	4,604	2,700 ^a	4,295 ^b	.....	.....	4,705	
Musgrove Petroleum Corp.	C NE NE 17-8-31W	3,049	4,113	4,152	4,710	2,738 ^a	4,420 ^b	.....	.....	4,825	
	C SE SE 27-8-34W	3,236	4,112	4,154	4,752	2,781 ^a	4,429 ^b	.....	.....	4,900	
	C SW NW 33-8-36W	3,408	4,143	4,190	4,850	2,879 ^a	4,505 ^b	.....	5,249	5,300	
	C SW SW 34-9-35W	3,328	4,173	4,213	4,883	2,842 ^a	4,545 ^b	.....	.....	4,950	
	Thomas										
	John O. Farmer No. 1 Bourquin	C NE NE 7-6-32W	3,045	3,954	4,002	4,560	2,700 ^a	4,267 ^b			4,670
	Musgrove Petroleum Co. No. 1 Flanagan	C NE NE 10-7-32W	2,998	3,948	3,993	4,560	2,650 ^a	4,245 ^b			4,662
	Musgrove Petroleum Corp. No. 1 Anderson	C SW SW 17-7-32W	3,058	3,995	4,044	4,604	2,700 ^a	4,295 ^b			4,705
	John O. Farmer & Braden Drlg. No. 1 Houston	C NE NE 17-8-31W	3,049	4,113	4,152	4,710	2,738 ^a	4,420 ^b			4,825
John O. Farmer No. 1 Dell	C SE SE 27-8-34W	3,236	4,112	4,154	4,752	2,781 ^a	4,429 ^b	.....	.....	4,900	
Badger Drillers No. 1 Studer	C SW NW 33-8-36W	3,408	4,143	4,190	4,850	2,879 ^a	4,505 ^b	.....	5,249	5,300	
Aurora Gasoline No. 1 Nikl	C SW SW 34-9-35W	3,328	4,173	4,213	4,883	2,842 ^a	4,545 ^b	.....	.....	4,950	

Musgrove Petroleum No. 1 Berstrand	SE SE NE 6-10-31W	3,067	4,046	4,095	4,669	2,617 ^a	4,364 ^b	.....	5,019	5,061
Falcon-Seaboard & Excelsior Oil No. 1 Marshall	C NW NW 17-10-36W	3,414	4,119	4,157	4,912	2,800 ^a	.....	.....	5,358	5,487
Trego										
*Petroleum, Inc. No. 1 Weber "G"	SE NE SE 32-11-21W	2,346	3,613	3,653	3,891 ^b	.....	.....	.....	.....	4,055
John O. Farmer, Inc. No. 1 Lynd "B"	NE NE NE 33-11-21W	2,328	3,592	3,631	.....	1,769 ^a	3,864 ^b	.....	4,054	4,066
Burch Drilg. Co. No. 1 McCall	C SE NW 2-11-23W	2,273	3,531	3,570	.....	1,774 ^a	3,792 ^b	.....	.....	3,815
Aurora & John O. Farmer No. 1 Schek	SE SE NE 20-11-25W	2,480	3,758	3,797	.....	2,055 ^a	4,050 ^b	.....	.....	4,059
Murfin, Rains & Williamson No. 1 Richardson	SE SE NE 34-11-25W	2,540	3,854	3,884	4,454	4,617	4,621	4,678	4,698	4,700
*Chief Drilg. Co. No. 1 Nixon	SW NE SE 15-12-22W	2,361	3,628	3,662	.....	1,798 ^a	.....	.....	4,086	4,100
*Veeder Supply & Development No. 1 Rinker	SE SE NE 19-12-22W	2,405	3,641	3,675	.....	.....	3,915 ^b	.....	4,106	4,138
Murfin Drilg. & Aurora Gas No. 1 Aurora-Miller	NW NW SE 4-12-25W	2,571	3,852	3,890	.....	2,145 ^a	4,151 ^b	.....	.....	4,160
*O. A. Sutton No. 1 Cross	SE NW NW 23-13-21W	2,293	3,545	3,581 ^a	.....	.....	3,823 ^b	.....	3,982	3,987
Hellar Drilg. No. 1 Shaffer	SE SE SE 15-13-22W	2,295	3,636	3,670	.....	1,745 ^a	3,920 ^b	.....	.....	4,200
*John O. Farmer No. 1 Kuppertz	SE SE SE 4-14-21W	2,219	3,536	3,574	.....	1,598 ^a	3,820 ^b	.....	3,979	4,080
Sol Robinowitz No. 1 North	SW NW SW 17-15-21W	2,347	3,728	3,769	4,300	1,697 ^a	4,030 ^b	.....	.....	4,320
Sunrav Mid-Continent No. 1 Phillips "C"	SE SE SW 18-15-21W	2,249	3,639	3,682	4,222	1,598 ^a	.....	.....	.....	4,272
Skelly Oil Co. No. 1 Halbleib	SE NW SE 31-15-21W	2,382	3,746	3,783	4,314	4,361	4,375	4,470	4,476	4,500

TABLE 30.—*Dry wildcat tests drilled in 1959, concluded*

County, company, and farm	Location	Surface eleva- tion, feet	Depth to top of formation, feet					Total depth, feet
			Heebner	Lans- K.C.	Missis- sippian hook"	Viola	Simp- son	
*Murfyn & Aurora No. 1 Pearson	NE NE SE	2,294	3,670	3,710	4,304	1,655 ^a	3,980 ^b	4,329
	15-15-22W							
Wabaunsee								
Cities Service Oil Co. No. 1 Meyer "D"	NE NW NE	1,315	885	1,067	1,376 ^b	.....	1,533	1,585
	35-11-9E							1,746 [†]
*Wm. Gruenewald No. 1 Wiksten	C NE NW	1,034	912	1,142	2,165	2,392	2,630 ^b	3,067
	35-11-11E							3,143
Kaiser-Francis & Shawver-Armour No. 1 Adams "A"	C SE NW	1,038	727	1,017	2,111	2,533 ^b	2,826	2,922
	20-11-13E							3,042
*Joseph E. Newman No. 1 Durein	SW SW SE	1,432	1,253	1,420	1,975	2,091	2,685	2,313 ^b
	1-12-8E							2,700
White & Fry No. 1 Horne	NW NW SE	1,443	1,350	1,577	2,249	2,451	3,010	3,114
	25-12-8E							2,702 ^b
*Tom Palmer No. 1 Smokey Ridge	C SW SE	1,399	1,207	1,396	2,087	2,249	2,823	.....
	4-12-9E							2,456 ^b
*Kaiser-Francis No. 1 Moëge	C SE SE	1,382	1,261	1,475	2,175	2,393	2,620 ^b	.....
	18-12-9E							2,650
E. H. Adair Oil Co. No. 1 Schmitt	NE NE NE	1,324	1,471	1,702	3,575	2,088 ^b	.....	3,753
	21-12-9E							.....
E. H. Adair Oil Co. No. 1 Humphreys	SE SE SW	1,356	1,317	1,547	2,275	1,895 ^b	.....	2,310
	32-12-9E							.....
Wm. Gruenewald No. 1 Stuewe	NE SE SE	1,339	1,238	1,464	2,492	2,775	3,260	2,960 ^b
	13-12-10E							3,276
Kaiser-Francis & Shawver-Armour No. 1 Sells "A"	C NW SW	1,031	710	1,008	2,092	2,526 ^b	2,764	2,872
	6-12-13E							2,963
Cities Service Oil No. 1 Palenski	SW SE SE	1,370	1,276	1,528	2,540	2,995 ^b	3,238	3,325
	16-13-10E							3,477

Kaiser-Francis & Shawver-Armour	C NE SW	1,383	1,110	1,409	2,448	2,965^a	3,162	3,278	3,368	3,400
No. 1 McKnight	17-13-12E									
Natural Gas & Oil	C SW NE	1,378	1,090	1,342	2,446	2,759	3,084	3,193	2,922^b	3,221
No. 1 Anderson "A"	27-13-12E									
Wallace										
General Crude Oil Co.	C NE NE	3,560	4,115	4,159	4,964	2,818^a	4,516^b	.....	.....	5,030
No. 1 Adams	15-12-39W									
Phillips Petroleum Co.	C NW SE	3,800	.....	.....	"Tight Hole"	.....	.....	.....	.....	5,417
No. 2 Wallace	18-15-41W				"Tight Hole"	.....	.....	.....	.....	
Phillips Petroleum Co.	C SW SW	3,935	.....	.....	"Tight Hole"	.....	.....	.....	.....	5,760
No. 1706 SW Wallace	7-15-42W									
Washington										
Rex & Morris, et al.	SW SW SE	1,390	1,487	1,588	2,070^b	.....	2,550	2,800	2,944	2,980[†]
No. 1 Kohlmeier	9-3-3E									
Rex & Morris, et al.	C SW NW	1,416	1,550	1,654	2,199^b	2,050	2,621	2,854	.....	3,057[†]
No. 1 Beikman	30-3-3E									
Rex & Morris, et al.	SE SE NE	1,453	1,592	1,696	2,270^b	2,120	2,701	2,938	3,071	3,106
No. 1 Doherty	3-4-2E									
Kewanee Oil Co.	NW NW NW	1,390	1,618	1,720	2,292^b	2,202	2,638	2,838	2,970	3,179[†]
No. 1 Strawberry	2-5-1E									
Kewanee Oil Co.	SW SW NE	1,389	1,570	1,672	2,334^b	2,080	2,763	2,956	.....	3,264[†]
No. 1 Sherman	13-5-3E									
Wichita										
Phillips Petroleum Co.	C NW SE	3,545	.....	.....	"Tight Hole"	.....	.....	.....	.....	5,338
No. 1 NW Leoti	32-16-38W									

^a Anhydrite

^b Base of the Kansas City

^c Fort Riley

^d "Stalnaker"

^e Granite basement

^f "Hunton"

^g Kansas City Group

[†] Well penetrated Precambrian

^{*} No electric or radioactivity logs available.

TABLE 31.—Oil production in Kansas during 1959

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., wells 1959		Producing zone	
			during 1959	to end, 1959	Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
ALLEN COUNTY								
Bronson-Xenia*	17-25-21E				238	11	"Bartlesville"	700 18
a		320	13,215					
b		2,560	138,882					
c		80	78					
d		700	2,340					
Colony West* ('22)	15-23-18E				30		"Squirrel"	820
a		640	735					
b		250	1,350					
Davis-Bronson*	24-21E				95		"Bartlesville"	720 45
a		160	1,120					
b		700	16,469					
Elsmore Shoestring ('08)	5-26-21E				63		"Bartlesville"	650 24
a		160	951					
b		760	15,483					
Elsmore West ('11)	12-26-20E				19	2	"Bartlesville"	775 20
a		200	11,783					
b		80	239					
c		60	178					
Humboldt-Chanute*	26-18E				1,093	8	"Bartlesville"	850
a		100	706					
b		520	16,385					
c		8,600	414,123					
d		1,300	82,549					
e		480	5,463					

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TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., wells 1959	Producing zone				
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.		
ANDERSON COUNTY										
Bush City Shoestring ('21)	28-20-21E	3,200	284,735		775	2	"Squirrel"	620	20	34
a		40	387				"Bartlesville"			
b										
Centerville* ('20)	10-21-22E	160	6,108		61		"Bartlesville"	480	15	
a		640	1,649							
b										
Colony-Welda ('16)	4-23-19E	360	23,574		193		"Weiser"	600	15	
a		420	6,787				"Squirrel"	780		
b		500	7,988							
c		780	37,510							
d		140	270							
e		140	139							
f		140	561							
g		380	21,374							
h		1,200	37,920		94		"Squirrel"	825		
Colony West* ('22)	15-23-18E				28	2	"Squirrel"	700	35	36
Garnett Shoestring ('04)	32-20-20E	180	18,085				"Garnett"	800		33
a		220	1,388							
b		200	7,583							
c		180	2,125							
d		140	2,841							
e			no report							
Greeley	29-21E						Cherokee	800		

Kincaid ('21)	10-23-21E	640	6,500	78	14	"Bartlesville"	750	12
a		220	2,506					
b		400	7,025	33	3	"Bartlesville"	700	25
Selma ('29)	9-22-21E	70	11,350	7+	3			
Miscellaneous								
Total Anderson County		10,350	488,405	1,269	24			
				recorded				

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abst., wells 1959	Producing zone		
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
Hardtner ('54)	31-34-12W	2,380	115,807	399,526**	53	Mississippian	4,782	6
Highway ('56)	14-32-11W	200	27,561	92,707	5	Douglas	3,587	16
Lake ('59)	26-31-14W	40	2,619	2,619	1	Arbuckle	4,747	5
Lake City ('37)	7-31-13W		no report	307,865		Viola	4,435	
						Simpson	4,530	
						Arbuckle	4,607	
Landis ('55)	21-34-11W	40	734	4,827	1	Mississippian	4,630	10
Little Bear Creek ('54)	12-32-14W		no report	1,801		Douglas	3,808	16
						Viola	4,670	10
McGuire-Goemann ('55)	29-32-10W	500	6,467	24,258	10	Mississippian	4,433	20
McReynolds (revived) ('59)	19-31-10W	20	270	270	1	Mississippian	4,520	2
Medicine Lodge-Boggs ('37)	13-33-13W	4,200		4,401,266		Marmaton	4,664	18
			6,327		1	Mississippian	4,495	6
			23,696		38	"Misener"	4,845	
			278,456		30	Simpson	4,806	
Medicine Lodge North ('54)	25-32-13W	1,240	127,985	530,657	30	Mississippian	4,480	13
Medicine Lodge								
Southwest ('54)	6-34-13W	80	736	1,680	2	Mississippian	4,889	
Nippawalla ('51)	13-33-12W	80	155	1,556	1	Douglas	3,659	
Palmer ('58)	30-32-13W	80	16,696	26,398	2	Marmaton	4,477	11
			6,178		2	Mississippian	4,524	22
Rhodes ('49)	15-33-11W	5,540	403,274	5,540,904	148	Mississippian	4,551	26.3
						Viola	4,803	
Rhodes Northeast ('56)	2-33-11W	440	5,649	10,557	11	Mississippian	4,400	10
Rhodes South ('57)	6-34-11W	260	44,099	84,531	7	Mississippian	4,564	30

Roundup South ('53)	33-33-11W	80	2,747	4,810	2	Mississippian	4,457
Sharon* ('55)	13-32-10W	840	33,166	146,890	7	Mississippian	4,355
Sharon Northwest ('56)	11-32-10W	840	5,849	17,283	16	Mississippian	4,347
Skinner ('43)	29-31-14W	640	40,570	2,096,221	9	Viola	4,626
Stumph ('52)	7-32-14W	420	16,671	213,910	3	Simpson	4,422
Sun City ('41)	35-30-15W	640	11,807	1,611,512	7	Mississippian	4,801
Turkey Creek ('43)	20-30-15W	Abandoned during 1959	30,011		5	Simpson	4,963
Turkey Creek East ('57)	21-30-15W	640	157,717	372,196	18	Lans.-K.C.	4,344
Turkey Creek North ('52)	17-30-15W	Abandoned during 1959	11,807		7	Lans.-K.C.	4,345
Wells ('57)	18-34-15W	40	no runs	2,570	1	Simpson	4,438
Whelan ('34)	32-31-11W	1,140	39,492	3,445,937	18	Viola	4,557
Whelan East ('54)	21-31-11W	40	no runs	61	1	Penn. congl.	4,541
Whelan Southwest ('54)	11-32-12W	40	1,423	15,488	1	Cherokee	4,768
Whelan West ('55)	25-31-12W	no report	no report	12,887	1	Mississippian	4,355
Wolgammott ('57)	16-35-14W	40	544	1,091	1	"Chat"	3,746
Pools or fields abandoned				77,150		Douglas	3,746
Total Barber County		25,500	1,640,686	21,791,063**	503	Mississippian	4,229
					13	Mississippian	4,284
						Cherokee	4,865
BARTON COUNTY							
Ainsworth South ('37)	10-17-13W	3,560	271,767	5,108,679	76	Lans.-K.C.	3,170
Ameh ('51)	19-18-11W	40	1,217	46,260	1	Arbuckle	3,390
Ames ('43)	22-18-11W	1,340	89,920	1,902,488	35	Lans.-K.C.	3,103
Ames Northwest ('47)	9-18-11W	80	3,450	55,416	2	Lans.-K.C.	3,042
					1	Arbuckle	3,348
						Lans.-K.C.	3,106
						Arbuckle	3,312
							50
							10
							38
							30
							4
							7
							26
							5
							12
							10
							24
							27
							11
							8
							4

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- ducing abds. wells 1959	Producing zone		
		Area, acres	during 1959	to end, 1959		Name	Depth, ft.	Thick- ness, ft.
Axman ('49)	19-17-14W	160	7,523	182,513	4	Lans.-K.C. Arbuckle	3,136	11
Bailey ('56)	30-18-11W	180	37,758	127,015	4	Lans.-K.C. Arbuckle	3,400	5
Barrett ('43)	36-16-14W	580	18,900	293,815	2	Arbuckle	3,270	21
			16,295		7	Lans.-K.C. Arbuckle	3,355	5
						Arbuckle	3,463	
Bart-Staff* ('51)	4-21-14W	600	75,928	869,662	13	Lans.-K.C. Arbuckle	3,572	5
Batchman ('50)	19-20-12W	320	6,109	92,633	3	Arbuckle	3,459	21
Beaver ('34)	16-16-12W	2,480	139,133	4,336,723	46	Oread	2,885	6
					1	Toronto	2,938	
						Arbuckle	3,348	5
Beaver North* ('37)	4-16-12W	360	7,660	741,411	4	Reagan	3,335	
					3	Topeka	2,702	10
Beaver South ('45)	27-16-12W	2,500	181,404	1,466,793	44	Arbuckle	3,316	10.5
					1	Lans.-K.C. "Sooy"	3,154	42
Behrens ('44)	6-20-15W	580	8,251	648,851	6	Arbuckle	3,359	
Behrens Northeast ('55)	29-19-15W		no report	275	2	Arbuckle	3,719	4
Bernard ('50)	10-19-11W	320	27,420	405,549	11	Arbuckle	3,639	
						Shawnee	2,866	6
						Lans.-K.C. Arbuckle	3,224	10
Bissell Point ('54)	10-19-13W	40	no runs	4,549	1	Lans.-K.C. Arbuckle	3,276	5
								38

Bloomer* ('36)	36-17-11W	1,260	159,264	12,002,498	60	Lans.-K.C. Arbuckle	3,044 3,257	8 43
Bottoms ('58)	36-18-12W	60	21,756	22,899	3	Lansing	3,144	10
Boyd ('42)	4-18-14W	3,900	389,277	9,145,669	126	Lans.-K.C. Arbuckle	3,177 3,438	12
Burmeister ('59)	33-19-11W	20	244	244	1	Precambrian	3,311	6
Capitol View ('50)	9-17-14W	520	19,203	176,035	6	Douglas Lans.-K.C.	2,980 3,230	37
Carroll ('44)	21-17-14W	2,460	194,771	3,894,281	64	Arbuckle	3,450	4
Carroll Southwest ('47)	32-17-14W	100	2,469	70,688	3	Lans.-K.C. Arbuckle	3,109 3,356	39
Chase-Silica* ('31)	32-19-9W	22,320	2,053,113	92,988,071	566	Lans.-K.C. Douglas	3,193 2,950	36
Cheyenne ('59)	4-19-12W	20	130	130	1	Lans.-K.C. Arbuckle	2,955 3,328	48
Cheyenne View ('49)	12-19-12W	2,600	301,650	4,136,962	108	Lansing Lans.-K.C.	3,097 3,152	7 6
Cheyenne View East ('57)	13-19-12W	80	9,237	30,087	2	Penn. congl. Arbuckle	3,393 3,390	17
Clafin ('54)	3-18-11W		no report	7,614		Lans.-K.C.	3,120	4
Clafin Northeast ('55)	3-18-11W	40	2,222	27,596	1	Lans.-K.C.	3,044	4
Clarence ('53)	35-19-15W	40	7,098	12,939	1	Arbuckle	3,320	4
Clarence Northwest ('54)	35-19-15W	40	9,834	57,736	1	Lans.-K.C. Reagan	3,040 3,291	21 6
Davidson* ('30)	4-16-11W	40	3,247	265,924	1	Lansing Precambrian	3,534 3,394	8 12
						Lans.-K.C. "Sooy"	3,016 3,317	9
						Arbuckle	3,314	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells 1959	Name	Producing zone		
			during 1959	to end, 1959			Depth, ft.	Thick- ness, ft.	Aver. grav.
Deines ('59)	16-16-14W	20	1,512	1,512	1	Lansing	3,190	4	34
Demel ('57)	6-17-11W	40	12,010	25,687	1	Lansing	3,053	10	
						Arbuckle	3,306	16	
DeWerff ('59)	32-20-12W	Combined with Rolling Green East				Arbuckle	3,488	5	40.1
Eberhardt ('35)	14-19-11W	320	7,211	497,398	5	Lans.-K.C.	3,194	3	
Ellinwood North ('37)	33-19-11W	920	87,650	1,108,565	32	Lans.-K.C.	3,090		
					1	Arbuckle	3,328	8	
Esfeld ('47)	15-16-11W		no report	14,584	1	Arbuckle	3,343		
Ess ('53)	13-19-14W	40	3,213	41,316	1	Lans.-K.C.	3,326	9	38
Feist ('58)	29-18-11W	200	51,909	136,039	5	Lans.-K.C.			
						Penn. congl.			
Feist North ('59)	20-18-11W	60	2,937	2,937	2	Lansing	3,104	8	
						Arbuckle	3,410	4	30
Feltes North (revived) ('59)	2-16-12W		no report	none		Arbuckle	3,340		
Finn ('59)	31-17-13W	40	1,885	1,885	2	Lans.-K.C.	3,109	2	
						Arbuckle	3,332	4	35
Fleske ('53)	3-20-15W	40	581	6,211	1	Lans.-K.C.	3,470	4	37
Fort Zarah ('50)	30-19-12W	3,200	290,105	4,999,933	95	Lans.-K.C.	3,157	6	37
					2	Arbuckle	3,384		
Fort Zarah North ('51)	19-19-12W	140	4,227	123,711	3	Lans.-K.C.	3,208	6	37
					1	Arbuckle	3,436		
Galatia ('58)	11-16-15W	40	13,668	14,603	2	Lansing	3,193	3	
Galatia East ('59)	12-16-15W	40	6,134	6,134	1	Lansing	3,152	8	42
Great Bend Airport ('52)	26-19-14W	640	69,058	515,136	15	Lans.-K.C.	3,320	4	40.2
						Arbuckle	3,473		
Great Bend Northwest ('55)	24-19-14W	120	7,058	54,859	3	Lans.-K.C.	3,315	13	
						Arbuckle	3,460	5	

Great Bend Southwest ('52)	25-19-14W	100	4,115	97,989	2	Lans.-K.C.	3,322	4
Great Bend Townsite ('53)	21-19-13W	1,280	77,572	744,414	36	Lans.-K.C.	3,196	30
					1	Arbuckle	3,441	4
Great Bend West ('51)	23-19-14W	40	1,696	73,580	1	Lans.-K.C.	3,332	5
Haberman ('59)	32-18-13W	20	2,112	2,112	1	Arbuckle	3,400	2
Hall-Gurney* ('31)	30-14-13W	600	108,195	2,360,685	33	Shawnee	3,066	43
						Lans.-K.C.		
						"Sooy"		
Hammeke ('50)	17-19-11W	160	5,781	127,357	4	Arbuckle		
Hammeke Southeast ('50)	17-19-11W	80	5,801	96,534	2	Lans.-K.C.	3,065	32
Hammeke West ('59)	18-19-11W	180	26,836	26,836	5	Lansing	3,089	7
						Arbuckle	3,078	3
Hammer ('40)	35-19-12W	1,000	239,514	2,347,534	38	Lans.-K.C.	3,345	6
						Arbuckle	3,088	
Harrison ('42)	18-20-13W	180	10,413	32,960	3	Lans.-K.C.	3,348	8
						Arbuckle	3,403	6
Hawkins ('52)	3-19-13W	320	8,960	115,529	5	Arbuckle	3,520	16
						Lans.-K.C.	3,158	40
Heizer ('35)	16-19-14W	40	1,740	59,245	1	Arbuckle	3,393	
Heizer Southwest ('52)	21-19-14W	300	5,930	88,913	3	Lans.-K.C.	3,228	2
						Arbuckle	3,379	
Heizer West ('55)	17-19-14W	160	8,132	86,671	6	Lans.-K.C.	3,552	39.3
					1	Arbuckle	3,237	11
						Arbuckle	3,546	
Herras ('55)	33-17-13W	300	22,279	195,681	12	Lans.-K.C.	3,128	4
					1	Arbuckle	3,343	39
Hiss ('36)	31-20-13W	1,000	34,871	965,373	15	Lans.-K.C.	3,270	5
Hiss East ('52)	33-20-13W	40	7,967	59,322	1	Lans.-K.C.	3,383	18
						Arbuckle	3,549	
Hiss South ('50)	31-20-13W	80	2,585	112,934	3	Arbuckle	3,542	31

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells 1959	Producing zone		
			during 1959	to end, 1959		Name	Depth, ft.	Thick- ness, ft.
Hiss Southeast ('48)	32-20-13W	160	10,037	202,706	5	Lans.-K.C.	3,414	16
						Arbuckle	3,545	36.5
Hlavaty ('59)	31-17-14W	20	6,133	6,133	1	Lans.-K.C.	3,172	3
Hoisington ('38)	21-17-13W	760	82,246	1,746,257	37	Lans.-K.C.	3,222	4
						Arbuckle	3,440	37.5
Hoisington East ('54)	23-17-13W	160	7,792	106,405	4	Lans.-K.C.	3,140	5
						Arbuckle	3,338	37.5
Hoisington Southwest ('54)	20-17-13W	80	5,402	36,675	2	Lans.-K.C.	3,282	
						Arbuckle	3,363	21
Homestead West ('55)	21-18-13W	40	no runs	2,511	1	Arbuckle	3,300	10
Hood ('59)	3-20-12W	40	1,112	1,112	1	Lansing	3,108	2
Jettie ('54)	27-20-14W	40	9,533	67,955	2	Simpson	3,534	6
Kimpler ('55)	31-18-11W	140	15,013	116,248	4	Lans.-K.C.	3,184	3
						Arbuckle	3,413	6
Klepper ('51)	2-19-11W	180	7,938	189,997	4	Lans.-K.C.	3,220	38
Klepper North ('59)	2-19-11W		no report	none		Lans.-K.C.	3,019	3
Klug ('46)	28-17-13W	40	2,454	58,641	1	Arbuckle	3,414	7
Klug North ('48)	27-17-13W	120	8,397	182,836	3	Arbuckle	3,377	10
Klug Northwest ('57)	28-17-13W	80	12,253	18,555	3	Arbuckle	3,423	4
Klug West ('56)	33-17-13W	60	15,380	55,298	3	Lans.-K.C.	3,149	28
						Arbuckle	3,394	5
Koopman ('53)	23-19-13W	40	3,164	33,277	1	Lans.-K.C.	3,220	3
						Arbuckle	3,398	37
Kowalsky* ('41)	32-20-11W	1,400	149,309	2,208,460	41	Lans.-K.C.	3,185	11
						Arbuckle	3,378	4

[illegible]

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells 1959	Name	Producing zone		
			during 1959	to end, 1959			Depth, ft.	Thick- ness, ft.	Aver. grav.
Ney Southwest ('59)	2-16-13W	40	17,443	17,443	1	Lansing	3,093	10	41.1
	5-16-14W	400	34,766	88,997	6	Lans.-K.C.	3,183	4	
Odin ('48)	3-17-12W	600	16,309	326,078	5	Arbuckle	3,387	8	
	1-18-15W	40	2,019	8,298	1	Arbuckle	3,321	2	31.5
Olmitz ('58)			1,962		1	Lans.-K.C.	3,295		
Otis-Albert* ('35)	30-18-15W	10,000	204,409	6,451,394	103	Arbuckle	3,540	4	
Pawnee Rock* ('36)	13-20-16W	40	1,548	245,411	1	Reagan	3,601		
Phillips ('57)	12-16-13W	220	31,051	81,900	6	Arbuckle	3,832	16	
Popp ('58)	3-16-14W	40	1,062	1,453	1	Arbuckle	3,366	4	
Prairie View ('50)	20-19-11W	360	17,840	366,257	8	Arbuckle	3,352	5	
Pritchard* ('44)	34-20-14W	1,600	138,862	3,271,204	40	Lans.-K.C.	3,080	36	40
						Lans.-K.C.	3,253	8	35.2
						Marmaton	3,625		
						Simpson			
Putnam ('51)	7-17-13W	40	1,636			Arbuckle	3,455	3	
Putnam West ('51)	1-17-14W	80	5,404	74,013	1	Lans.-K.C.	3,286	7	39
Red Brick ('53)	23-19-13W	240	6,246	67,139	3	Lans.-K.C.	3,225	8	38
				48,016	4	Lans.-K.C.	3,240	7	
					1	Penn. congl.	3,414	2	
Redwing ('50)	31-17-12W	380	12,967	258,602	10	Arbuckle	3,448		
						Lans.-K.C.	3,083	7	40
Redwing East ('55)	33-17-12W	380	69,228	329,058	13	Arbuckle	3,335		
					1	Lans.-K.C.	3,120	5	
Redwing Southwest ('59)	1-18-13W	180	11,607	11,607	4	Arbuckle	3,352	2	
						Arbuckle	3,327	3	39.8

Reif South ('50)	31-16-12W	100	1,996	52,253	3	Lans.-K.C.	3,172	5	38
Reimer ('56)	25-17-15W	40	1,785	12,578	1	Lans.-K.C.	3,357	4	
Rick* ('36)	1-19-11W	640	30,016	1,258,411	16	Lans.-K.C.	3,106		41
						Arbuckle	3,355		
Roesler* ('43)	14-18-11W	1,400	124,219	1,669,153	33	1 Lans.-K.C.	3,208		
						Arbuckle	3,291	7	
Rolling Green East ('49)	30-20-12W	340	22,948	94,450	8	1 Arbuckle	3,491	6	
St. Peter ('44)	5-19-11W	1,280	241,757	2,019,267	50	Arbuckle	2,910	7	
						Shawnee	3,121	3	
						Lans.-K.C.	3,391	4	
						Penn. cong'l.	3,387		
						Arbuckle	2,870	3	
St. Peter East ('56)	34-18-11W	520	27,224	517,619	2	Topeka	3,116	14	
			217,891		24	Lans.-K.C.	3,375	19	26.2
Sandford ('51)	25-17-14W	80	2,973	54,305	1	Arbuckle	3,412	8	35.37
Sandrock ('51)	21-20-13W	640	31,354	457,856	11	Lans.-K.C.	3,262	11	30.5
Sandrock North ('59)	21-20-13W	40	4,788	4,788	1	Lansing	3,317	8	48
South Bend ('54)	9-20-13W	120	9,331	111,372	5	1 Lans.-K.C.	3,353	4	
Stiles ('58)	7-16-12W	60	7,815	10,666	2	Arbuckle	3,230	9	
Sunny Valley ('49)	7-20-12W	160	8,217	347,351	5	Lans.-K.C.	3,422	12	
Sunny Valley Northeast ('54)	6-20-12W	220	21,050	177,104	6	Arbuckle	3,332	8	
Templing ('55)	23-16-14W	180	26,524	121,134	4	Lans.-K.C.	3,402		
						Arbuckle	2,889		
Trapp* ('36)	23-15-14W	12,140	789,224	54,299,085	334	11 Shawnee	2,966		
						Douglas	3,062		
						Lans.-K.C.	3,252		39
						Arbuckle	3,641	3	
Unruh ('45)	24-20-15W	640	3,354	222,521	8	Arbuckle	3,628	1	37.5
Unruh South ('59)	25-20-15W	20	5,189	5,189	1	Arbuckle	3,487	13	
Voight ('58)	15-20-13W	Abandoned during 1959				Arbuckle	3,169	7	
Weikert ('53)	36-18-12W	120	5,348	71,108	3	Lans.-K.C.			42

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., wells 1959	Producing zone			
			during 1959	to end, 1959		Name	Depth, Thick- ness, ft.	Aver. grav.	
Werner-Robl ('51)	30-19-11W	920	29,879	337,178	8	Lans.-K.C.	3,106	16	37.40
Wondra North ('59)	10-17-12W	40	1,010	1,010	1	Arbuckle	3,364	13	39.5
Workman Northwest ('56)	21-20-12W	1,840	374,698	1,396,856	57	Lans.-K.C.	3,167	6	
					2	Arbuckle	3,438	10	
Workman West ('56)	28-20-12W	180	31,084	87,227	5	Arbuckle	3,434	16	
Pools or fields abandoned				816,138					
Total Barton County		125,540	11,404,683	332,190,198	3,262				108

BOURBON COUNTY

Bronson-Xenia*	17-25-21E				47	"Bartlesville"	665	
a		640	3,030					
b		100	120					
c		100	333					
d		640	5,507					
Davis-Bronson*	23-21E				20	"Bartlesville"	560	
a		300	3,337					
b		10	316					
c		180	6,217					
d		120	170					
Hepler* (17)	27-22E				40	"Bartlesville"		
a		440	8,811					
b		20	276					
Lost Creek		80	77		1			

Savonburg Miscellaneous	40	536	3	
	20	416	2+	
Total Bourbon County	2,690	29,146	113	7
				956,930 recorded
BROWN COUNTY				
Livengood ('44)	3-1-15E	no report		"Hunton" 2,580
				90,394 recorded
BUTLER COUNTY				
Allen-Robison ('43)	1-26-3E	600	24	Mississippi 2,700
Asmusson ('57)	16-29-4E	1,440	43	Lansing 1,840 6
				"Misener" 2,856 3
				Arbuckle 2,695 5
Augusta ('14)	21-28-4E		172	Lansing 1,700 34
a		40		Kansas City 2,000
b		5,120		Marmaton 2,200
				Ordovician 2,445
Augusta North ('14)	28-27-4E	1,140	65	Arbuckle 2,600
				Lansing 1,650 34
				Kansas City 1,950
				Ordovician 2,380
Bausinger ('29)	24-27-3E	120	2	Arbuckle 2,410
Benton ('25)	26-3E	40	1	Simpson 3,050
a			2	"Chat" 2,965
b				
Berndsen ('58)	15-26-4E	580	22	Simpson 2,423 17

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing wells 1959	Name	Producing zone	
		Area, acres	during 1959 to end, 1959			Depth, ft.	Thick- ness, ft.
Blankenship* ('21)	26-8E	1,240	79,043	80	"Bartlesville"	2,650	50
		40	657				
		120	5,281				
		100	164				
Blood ('58)	29-29-4E	160	38,013	4	Mississippian	2,716	
Brandt-Sensenbaugh ('25)	22-28-7E		58,252	29	"Chat"	2,692	
		120	4,550				
		40	3,314				
		960	22,362				
Brickley ('51)	2-27-7E	100	2,672		"Chat"		
		280	3,014	6		2,692	19
		40	857	1		2,699	33
		80	556	1			40
Butwick	3-27-7E	40	857	1	"Bartlesville"		
		80	556	1			
		40	579	1			
		160	9,484	6		2,820	
Combs* ('47)	7-26-3E	40	579	1	"Bartlesville"		
		160	9,484	6		2,820	
Combs Northeast ('48)	5-30-5E	160	9,484	6	"Bartlesville"		
		160	9,484	6		2,820	
DeGraff ('55)	27-29-5E	160	2,837	3	"Bartlesville"		
		160	2,837	3		2,850	
Dixon ('46)	8-24-5E	40	611	1	"Burgess"		
		40	611	1		2,440	
Douglass ('16)	12-27-6E	40	611	1	Kansas City		
		40	611	1		2,160	
Douglass ('16)	21-29-4E	160	1,327	8	Mississippian		
		160	1,327	8		1,790	
a	21-29-4E	160	1,327	8	Lans.-K.C.		
		160	1,327	8		1,790	
b	21-29-4E	40	706		Ordovician		
		40	706			3,000	
c	21-29-4E	80	2,294				
		80	2,294				

Douglass Townsite ('58)	20-29-4E	20	345	594	1	Lansing	1,880	10
Eckel	7-27-7E	140	1,283	1,283	1			
Edgecomb ('51)	9-25-3E	40	3,207	27,489	1	Mississippian	2,759	
Edmonds*	31-22-4E	60	1,352	8,451	2	Mississippian	2,471	
Elbing* ('18)	18-23-4E				76	Kansas City	2,120	37
a		360	32,612			Mississippian	2,400	35
b		1,480	226,418			"Hunton"		
Elbing East ('50)	27-23-4E	80	1,033	38,481	2	Viola	2,530	
Elbing South ('58)	32-23-4E		no report	none		Lans - K.C.	1,799	34
Elbing West ('59)	13-23-3E	Combined with Paulson Northeast				Kansas City	2,041	14
El Dorado ('15)	29-25-5E	23,000	4,443,182	241,182,846	1,568	Mississippian	2,488	18
					42	Admire	630	37
						Lansing	1,700	34
						Kansas City	2,000	36
						Viola	2,500	37
						Simpson	2,510	
						"Wilcox"	2,600	37
						Arbuckle	2,550	38
						Simpson	2,515	37.4
Entz ('59)	23-26-4E	140	26,484	26,484	3	Mississippian	2,647	4
Ferrell ('39)	28-28-8E	720	44,882	1,600,310	29	Mississippian	2,443	17
Flint ('57)	6-24-6E	40	1,653	7,449	1	Mississippian	3,069	3
Four Mile Creek ('51)	5-28-3E	40	15,545	254,118	2	Simpson	2,730	25
Fox-Bush ('17)	24-29-5E	4,480	387,193	6,433,211	132	"Bartlesville"	2,837	40
Fox-Bush West ('53)	15-29-5E	40	1,411	29,012	2	"Bartlesville"	2,760	11
Garden ('25)	32-26-6E	320	6,393		6	"Bartlesville"		
Gelwick ('29)	27-4E	40	10,166		1	Viola	2,924	
Hannah ('36)	29-8E	160	10,451	58,888	8	Kansas City	2,120	
Haverhill ('27)	34-27-5E	1,440	61,656	4,795,375	56	"Bartlesville"	2,700	
Hazlett	24-5E	1,760	101,947	1,937,162	75	Mississippian	2,480	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing abds., wells 1959	Name	Producing zone	
		Area, acres	during 1959			Depth, ft.	Thick- ness, ft. Aver. grav.
Hickory Creek ('46)	11-28-5E	360	86,937	1,109,430	17	"Bartlesville"	2,685
Keighley ('25)	22-27-7E	2,560	43,110		58	Mississippian	2,700
		640	10,339		2	"Bartlesville"	2,650
Kramer-Stern ('26)	3-28-6E	1,920	147,216		62	Simpson	3,148
		160	9,183		2	Lans.-K.C.	3,000
Latham ('59)	14-29-7E	40	5,148	5,148	1	Simpson	3,040
Leon ('22)	19-27-6E	640	31,483	3,672,528	29	Arbuckle	2,788
					1	Mississippian	14
						"Bartlesville"	37
						"Chat"	2,660
						Viola	3,050
Long ('49)	15-26-7E	40	1,512	26,070	1	Mississippian	2,780
Long Northeast ('53)	11-26-7E	40	1,542	13,206	1	Mississippian	2,753
McCaig (revived) ('59)	13-28-6E	40	6,542	6,542	2	"Bartlesville"	2,700
						Mississippian	29
						"Burgess"	2,765
McCann ('33)	7-25-3E	20	272	2,734	1	Mississippian	2,442
Mellor ('57)	1-24-3E	340	38,248	99,068	13	Mississippian	2,492
Mellor East ('58)	7-24-4E	260	16,205	43,808	6	Mississippian	2,441
Mellor Northeast ('58)	6-24-4E		no report	none		Mississippian	2,410
Mt. Tabor ('53)	36-29-4E	80	20,431	132,092	10	"Bartlesville"	2,757
Muddy Creek ('50)	13-29-4E	1,260	12,933	623,593	33	"Bartlesville"	2,813
Murdock ('52)	23-25-3E	40	1,001	9,743	1	Mississippian	2,709
Parsley ('49)	3-26-3E	160	1,537	122,965	5	Mississippian	2,700
Paul ('59)	26-25-3E	40	925	925	1	Mississippian	2,730
							3
							48
							31

Paulson ('58)	35-23-3E	180	38,720	57,968	6	Mississippi	2,519	10
Paulson Northeast ('58)	24-23-3E	880	191,013	191,924	32	Mississippi	2,467	
Phares ('57)	5-26-3E	40	287	3,443	1	Mississippi	2,756	2
Pierce ('26)	28-25-4E	840	51,598		34	"Chat"	2,550	43
Pierce Northwest ('54)	21-25-4E	160	7,465	74,145	5	Mississippi	2,569	14
Pierce West ('51)	20-25-4E	80	1,953	32,072	2	Mississippi	2,515	29
Plum Grove ('58)	24-24-4E	220	4,249	9,271	6	Mississippi	2,515	10
Pontiac Southwest ('56)	23-26-6E		no report	1,886				
Potwin ('17)	31-24-4E	3,520	104,741	8,687,151	111	Kansas City	2,550	
						Mississippi	2,660	
Powell	12-24-3E	20	1,209	2,822	1	Mississippi		
Reynolds-Schaffer ('22)	9-27-6E	3,280	111,659		62	Kansas City	2,375	
						Mississippi	2,780	
						Viola	3,141	
Rombold ('49)	4-26-3E	40	3,181	54,836	2	Mississippi	2,770	39
Salter ('46)	23-28-3E	540	46,160	1,549,960	25	Simpson	3,000	
Shinn ('46)	19-29-8E	360	61,351	973,397	21	Mississippi	2,766	
Shinn Northeast ('56)	17-29-8E	180	21,663	60,115	4			
Smock-Sluss ('17)	2-27-5E				53	"Bartlesville"	2,700	35
a		1,600	80,138			Viola	3,000	
b		20	819					
c		360	25,858					
Snowden-McSweeney ('30)	34-28-6E	1,760	43,877		71	Lans.-K.C.	2,060	35
						"Peru"	2,404	
						"Bartlesville"	2,810	
						Mississippi	2,833	
Steinhoff ('26)	28-29-6E	100	2,831		2	Mississippi	2,803	
Towanda ('48)	5-26-4E	380	154,819	2,824,449	33	Mississippi	2,400	
						Viola	2,460	
Whitewater ('49)	32-25-4E	160	24,288	450,917	8	Viola	2,625	37

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- Wells ducing abd., wells 1959	Producing zone			
		Area, acres	during 1959 to end, 1959	1,194		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Wiebe ('59)	30-23-6E	80	1,194	1,194	1	Lansing	1,592	6	34
Young ('20)	27-26-7E				46	Mississippian	2,650		
a		640	13,929						
b		580	81,604						
Miscellaneous		230	25,183		23+				
Total Butler County		72,330	7,929,366	437,516,367 recorded	3,226	70			
CHASE COUNTY									
Atyeo-Pixlee* ('23)	7-22-10E				11	"Bartlesville"	2,250		
a		80	11,445						
b		60	1,066						
c		80	13,530						
Koegeboehn ('59)	19-19-6E	80	1,588		2	Viola	2,052	21	29
Teeter* ('20)	16-23-9E	720	85,210		28	"Bartlesville"	2,500		
Total Chase County		1,020	112,839	555,110 recorded	41				
CHAUTAQUA COUNTY									
Berlin	32-11E	40	511		1				
Borroum ('26)	20-34-9E	200	3,522		6	Marmaton	1,780		
Elgin	34-10E				163	"Peru"	1,520		
a		640	2,020						
b		1,280	22,052						

	c	100	1,278		
d	80	318			
e	140	1,387			
f	520	9,746			
g	520	13,901			
Elk City*	20	282		1	"Burgess"
Frazier	32-13E			4	"Peru"
a	33-13E				
b		40	75		
Hale-Inge*	32-12E	140	1,793	57	"Peru"
a		40	240		
b		220	3,437		
c		1,440	13,684		
Hewins	34-10E	100	321	2	1
Kingston ('26)	18-32-11E	40	380	1	"Chat"
Landon-Floyd ('36)	23-32-10E	740	76,685	29	Arbuckle
Leniton	33-10E	2,460	61,926	65	Mississippi
Leonard	34-9E	40	83	1	"Peru"
Lowe	34-10E	40	456	1	"Peru"
McAllister ('25)	28-32-10E	80	5,197	2	Arbuckle
McGlasson ('47)	11-33-9E		no report		
McGlasson West ('59)	10-33-9E		no report		Mississippi
McNown		40	1,317	1	
Malone	18-32-10E	280	4,446	3	Arbuckle
Niotaze	34-13E	1,840	19,881	75	"Redd"
Ogle ('57)	29-34-11E		no report	539	"Peru"
Oliver ('35)	32-11E	800	12,318	11	Marmaton
					Arbuckle

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- Wells ducing abd., 1959 wells	Producing zone		
		Area, acres	during 1959 to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
Peru-Sedan ('00)	34-11E			1,629	27	"Peru" Mississippian	1,200 25 2,000
a		960	5,370				
b		760	13,683				
c		220	332				
d		7,680	144,191				
e		3,940	76,945				
f		320	3,021				
g		840	34,109				
h		940	17,324				
i		200	163				
j		8,320	361,854				
k		40	772				
l		540	1,258				
m		100	2,744				
n		40	4,513				
Ramsey	33-9E		no report			Mississippian	2,285 30
Rich ('56)	16-33-9E		no report	2	1	"Peru"	1,670
Wauneta	34-9E	60	80			Mississippian	2,100
Wayside-Havana* ('04)	34-13E	40	1,096	29	1	"Wayside"	575
a		540	3,982			"Weiser"	700
b		80	734			"Bartlesville"	1,200
Wiggam	34-32-10E	100	5,132	3		"Weiser"	1,600
Miscellaneous				5+			
Total Chautauqua County		37,600	934,559	2,091	51		
			49,716,594 recorded				

		CHEYENNE COUNTY					
		no report	none				
Alexander ('59)	13-4-38W	20	2,070	1	Marmaton	4,669	
Ken ('59)	16-2-37W	40	12,775	2	Cherokee	4,762	
Rueb ('58)	13-3-42W	20	1,499	1	Lansing	4,537	
Rueb South ('59)	36-3-42W	80	16,344	4	Lansing	4,445	
Total Cheyenne County		160	8,393	100,507			
		CLARK COUNTY					
Ashland ('51)	35-32-23W	4,260	no report	5,656	Lans.-K.C.	4,673	
Cavalry Creek ('55)	3-31-21W	60	170,434	1,684,205	Viola	6,526	
Harper Ranch ('53)	9-34-21W	640	646	1,641	Mississippi	5,195	
Harper Ranch North ('54)	22-33-21W	80	8,774	20,229	Morrowan	5,437	
McKinney* ('50)	2-34-26W	40	no runs	5,214	Morrowan	5,318	
Morrison Northeast ('54)	10-32-21W	no report	2,546	2,917**	Mississippi	5,762	
Snake Creek ('52)	21-34-21W	40	191,621	1,832,119**	Morrowan	5,193	
Snake Creek East ('56)	24-34-21W	5,280	15,218	47,462	Morrowan	5,452	
Tuttle West ('57)	10-35-21W	80	15,218	47,462	Morrowan	5,480	
Total Clark County		64	1,832,119**	64		5,625	
		CLAY COUNTY					
Griffith ('57)	3-9-4E	100	460	6	Mississippi	1,908	
Crandall ('53)	6-23-16E	620	14,248	19			
Dunaway* ('22)	23-22-13E				Mississippi	1,022	
					"Burgess"	1,850	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing wells 1959	Producing zone	
		Area, acres	during 1959 to end, 1959		Name	Depth, Thick- ft. ness, ft. grav.
Evans*	23-15E		no report		Mississippian	1,878
Finnerty ('53)	12-21-13E	320	8,484	6	Arbuckle	2,200
Hatch					"Peru"	1,382 10
Leroy North	22-16E	40	620	1	"Burgess"	1,728 11
a		300	3,964	10	"Burgess"	1,825
b		40	776	1	"Squirrel"	
Neosho Falls-Leroy* ('05)	35-22-16E	3,200	27,703	106	"Squirrel"	965
"Parmely"	92-22-17E	80	233	2	"Squirrel"	
Virgil North* ('20)	22-23-13E	1,240	39,024	59	"Bartlesville"	1,585
Winterscheid*	23-14E			35	Mississippian	1,838
a		1,200	13,340		"Peru"	1,170
b		40	1,937		"Bartlesville"	1,630
Miscellaneous		20	163	1+	Mississippian	1,750
Total Coffey County		7,200	110,952	245		
			2,323,137 recorded	19		
COMANCHE COUNTY						
Mule Creek ('55)	5-31-18W	100	23,188	3	Mississippian	5,066
Perry Ranch ('58)	12-32-16W	40	3,979	1	Mississippian	4,785
Robbins Ranch ('53)	23-31-16W		no report	2	Mississippian	4,915
Total Comanche County		140	27,167	4		
			61,804	2		

COWLEY COUNTY									
Albright ('56)	3-34-5E	1,320	104,552	421,725	35	Mississippian	3,126	10	
Atlanta ('58)	11-30-6E	540	89,602	131,177	18	Shawnee	1,631	7	
						"Stalnaker"	1,816	4	
						Kansas City	2,174	6	
						Mississippian	2,869	28	
						Arbuckle	3,274		
Bernstorf ('58)	33-31-4E	80	14,043	19,605	2	"Bartlesville"	3,043	18	
Biddle ('22)	7-32-5E	960	110,484		41	Kansas City	2,000	20	
						"Layton"	2,300		
Box ('48)	28-30-7E	320	15,229	260,650	13	"Bartlesville"	2,878	14	
Brandenburg ('55)	3-35-3E	40	1,893	17,231	1	Mississippian	2,840	15	
Bruce ('50)	9-30-4E	200	19,566	68,316	4	Simpson	3,664	7	25
Burden ('26)	31-31-6E	1,280	32,993		51	Arbuckle	3,306		
						"Layton"			40
						"Peru"			39
Burden Townsite ('58)	3-32-6E	40	151	3,099	1	"Bartlesville"	2,900	35	
Cabin Valley ('52)	31-33-6E	640	150,362	1,230,250	39	"Layton"	2,205		
Canfield ('52)	13-34-3E	900	22,471	265,851	17	"Layton"	2,188	9	40
						"Layton"	2,651	4	42
						Lans.-K.C.	2,839		
Cedarvale ('53)	9-34-8E		no report	2,168		"Bartlesville"	3,375		
Centennial North ('53)	1-33-3E		Included with Graham			Mississippian	2,365	10	
Church ('54)	13-31-6E	40	1,683	18,006	1	"Bartlesville"	3,256	4	
Churchill Northeast ('55)	18-31-3E	40	1,878	12,465	1	Mississippian	2,935	12	34
Clark ('14)	6-31-4E		Combined with Rock			Kansas City	2,420		
Combs* ('47)	5-30-5E	500	39,025	664,054	17	"Bartlesville"	2,840	20	39
						"Bartlesville"	2,823	20	40
						Mississippian	2,850		
Copeland ('52)	5-35-4E	40	1,020	2,008	2	Mississippian	3,211	13	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abds., 1959 wells	Producing zone			
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Couch ('37)	13-30-5E	1,140	68,157	2,496,713	51	"Bartlesville"	2,800	15	41
Countryman ('25)	4-33-7E	800	37,287		17	"Layton"	1,950	12	34
Crane ('57)	7-33-4E					Mississippian	2,870		
David ('35)	35-30-4E	2,460	Combined with Graham			Mississippian	3,252	10	
			72,278	3,767,995	155	"Bartlesville"	2,900	40	
Deichman ('41)	24-31-4E	540	164,447	377,344	19	Arbuckle	3,463		35
						"Bartlesville"	2,900		
						Mississippian	3,000		
Denton			no report	746					
Dexter ('14)	33-6E		no report		2	Mississippian	2,750		
Donelson	21-34-7E	40	1,128	1,128	1				
Dunbar	30-5E		no report	8,923					
Eastman ('24)	5-31-6E	820	31,568		30	Lans.-K.C.	2,890	20	36
Elrod	4-32-5E	100	7,012		3	"Bartlesville"	2,411		
Elrod East ('59)	3-32-5E	20	968	968	1	"Layton"	2,340	3	
Enterprise Northeast ('52)	35-33-3E	160	469	45,072	3	"Bartlesville"	3,335	12	
						Mississippian	3,321	12	
Enterprise Southwest ('53)	3-34-3E	20	470	7,258	1	"Bartlesville"	3,360	10	39
Estep ('53)	21-34-6E	40	9,607	10,482	1	"Stalnaker"	1,803	4	
Estep West ('59)	29-34-6E	40	417	417	1	Mississippian	3,130	8	38
Estes ('54)	12-32-6E	1,280	78,922	560,045	43	"Layton"	2,190	13	36
Ferguson Northwest ('50)	16-30-8E	140	712	41,710	4	Kansas City	2,200		
Ferguson West ('34)	21-30-8E	120	213		3	Kansas City	2,180		
Frog Hollow ('37)	20-32-5E	720	108,615	5,033,138	39	"Bartlesville"	3,000	20	
Frog Hollow East ('41)	15-32-5E	640	22,358	383,065	9	"Bartlesville"	3,000	8	
					1	Mississippian	3,077	20	

Geuda Springs	5-34-3E	2,560	145,300	1,718,755	63	1	"Cleveland"	2,984	2
							"Bartlesville"	3,300	14
							"Chat"	3,345	25
Gibson ('41)	29-34-3E	1,380	132,577	2,948,578	91		"Bartlesville"	3,350	35
							Mississippi	3,400	12
							Simpson	3,774	6
Graham ('24)	3-33-3E						Arbuckle	3,780	11
a		640	104,776	3,553,832	71	1	"Layton"	2,550	15
b		1,280	200,940				"Bartlesville"	3,213	50
							Mississippi	3,284	16
							Arbuckle	3,518	5
Grand Summit* ('26)	4-31-8E	20	476				Kansas City	2,000	19
Grouse Creek ('51)	16-30-7E	160	3,866	37,116	4		Mississippi	2,890	37
Hackney ('56)	19-33-4E		no report	2,454			Mississippi	3,246	12
Hackney North ('59)	18-33-4E		no report				Mississippi	3,236	6
Harvey ('52)	23-34-3E			1,269,092	41	1	"Layton"	2,574	18
a		120	6,103				"Bartlesville"	3,278	33-40
b		1,100	59,176						
Henderson ('42)	26-32-3E	80	593	136,258	2		Kansas City	2,690	9
							Arbuckle	3,419	
Higby ('57)	31-34-6E	40	4,386	6,136	1		Mississippi	3,180	10
Hittle ('26)	28-31-4E	540	61,282	9,752,651	27		Kansas City	2,400	20
							Arbuckle	3,280	
Kanok ('56)	15-35-5E	120	10,952	55,345	3		Mississippi	3,172	4
Kanok North ('57)	3-35-5E		no report	140			Mississippi	3,136	4
Lauppe ('59)	6-32-6E	80	251	251	1		"Burgess"	3,079	8
Lovell ('59)	9-35-3E	80	1,867	1,867	1		"Bartlesville"	3,458	40
McKay ('51)	17-35-4E	1,180	25,036	520,511	32		"Bartlesville"	3,314	
Maddix North ('57)	12-33-5E	240	48,526	84,392	6		Mississippi	3,014	13
Mahannah ('59)	6-30-8E	120	22,776	22,776	3				

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- Wells ducing abd., 1959 wells	Producing zone			
		Area, acres	during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Mansur ('49)	25-31-6E	300	4,890	114,873	9	"Layton"	2,170	16	
Mansur Southwest ('59)	26-31-5E		no report			"Layton"	2,206	3	36
Maple ('58)	2-30-3E		no report	1,354	1	"Bartlesville"	3,067	6	
Murphy* ('33)	7-35-3E				45	"Bartlesville"	3,450	10	
a		320	4,403			"Chat"	3,500		
b		900	34,638						
Nigger Creek ('51)	22-34-3E	20	1,023	10,772	1	"Bartlesville"	3,281		
Olsen	1-35-7E	140	31,676	79,953	7				
Otto ('27)	25-34-6E	80	1,172		5	"Stalnaker"	1,845	6	
a		100	1,241			"Chat"	3,017	50	
b		60	174	935	1	"Layton"	2,464	6	
Peck	9-35-4E	160	54,449	159,318	11	"Cleveland"	2,751	10	
Poscy ('56)	21-33-4E					"Peru"	2,953	4	
						Mississippian	3,164	14	
"Priest"	7-33-6E		no report	98					
Pudden	16-35-4E		no report			Lans.-K.C.	2,332		
Quarry ('54)	28-34-5E	60	1,245	30,045	1	"Cleveland"	2,684	18	38
Rahn ('39)	13-34-5E	1,600	125,704		32	"Bartlesville"	2,900	30	
Rahn Northeast ('49)	27-33-6E		no report	71,193		"Bartlesville"	2,902		
Rainbow Bend* ('23)	20-33-3E	1,920	266,785	17,581,039	77	"Burgess"	3,200	50	
						Arbuckle	3,550		
Rainbow Bend Southwest ('54)	31-33-3E		no report	7,881	1	Mississippian	3,356	18	
Rauckman ('56)	18-34-3E	160	5,790	40,205	4	"Bartlesville"	3,358	6	
Rock ('23)	15-30-4E	2,560	528,213	5,872,858	105	"Bartlesville"	2,800	30	

Rock North ('37)	3-30-4E	320	118,667	392,563	12	"Bartlesville"	2,800		
Salem ('57)	2-31-5E	40	3,904	11,825	1	Mississippian	3,050	2	
School Creek North ('53)	10-32-7E	960	146,346	1,275,499	54	"Layton"	2,114	6	34
Seacat ('44)	26-33-4E	300	19,065	120,881	9	"Bartlesville"	2,826	9	
						"Layton"	2,385		43
Shannon ('59)	26-31-5E	200	3,166	3,166	6	Mississippian	3,100		
Slick-Carson ('24)	19-32-3E	280	17,343	7,748,077	6	"Layton"	2,314	3	
					12	"Bartlesville"	2,600		
Smith ('17)	31-3E	160	5,278		3	Arbuckle	3,150		
State ('26)	15-32-4E	120	2,577		11	"Bartlesville"	3,450		
a						Arbuckle	3,050	12	
b						"Layton"	2,400		
Stayton ('49)	32-32-4E	480	2,936	146,943	7	Arbuckle	3,300		
Stayton South ('53)	5-33-4E	100	3,421	59,058	5	"Bartlesville"	3,100	8	33
Thurlow ('27)	8-33-3E	220	1,851		2	"Bartlesville"	3,165	23	40
Trees ('35)	19-30-4E	720	15,928		24	Simpson	3,500	5	
Turner ('37)	30-32-6E	80	4,189	301,690	3	"Bartlesville"	2,875	25	
Turner West ('52)	25-32-5E	20	846	11,149	1	"Layton"	2,232	15	
Udall ('26)	28-30-3E	100	5,434		3	Mississippian	3,054		38
					1	Shawnee			38
Waldschmidt ('57)	8-34-6E	640	41,519	95,040	11	Arbuckle	2,850		
						"Stalnaker"	1,821	2	
Walnut Bend	11-34-4E	120	17,080		4	Mississippian	3,080	12	
Walnut Bend North ('56)	36-33-4E		no report	187		Mississippian			
Weathered ('35)	28-31-3E	640	42,937	2,986,727	20	"Stalnaker"	3,188	8	
					6	Lans.-K.C.	2,080	15	
						"Bartlesville"	2,480	12	
						Mississippian	3,018	6	
						Arbuckle	3,020	8	
							3,250	5	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- ducing abdl. wells 1959	Producing zone				
		Area, acres	during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.		
Werner ('56)	31-32-6E	540	38,283	85,118	8	2	"Layton"	2,460	13	
Wilmot-Floral	31-5E	280	29,043		6		Mississippian "Cattleman"	3,074 2,890	8	
Windsor ('57)	6-32-8E	740	31,456	117,215	14		"Bartlesville"	2,910		
Windsor Southeast ('58)	7-32-8E	40	6,281	6,410	2	1	"Layton"	1,935	10	
Windsor Southwest ('58)	7-32-8E	540	46,505	89,441	13		"Layton"	1,858	18	
Winfield ('14)	32-5E	1,980	102,929		86	3	"Layton"	1,894	10	
							Admire	600		38
							"Peacock"	1,400	15	
Winfield South ('45)	1-33-4E	260	8,491	105,123	6		"Layton"	2,300	20	
Miscellaneous		200	34,115		5+		"Bartlesville"	3,050	12	
							Arbuckle	3,300	5	
							"Hoover"	1,400		38
Total Cowley County		44,260	3,858,450	100,346,582	1,591	58				
CRAWFORD COUNTY										
Hepler* ('17)	27-22E				8		"Bartlesville"			
a		160	2,641							
b		40	68							
"Houston"	3-31-22E	260	1,401		6					
McCune ('29)	30-22E				210	5	"Bartlesville"			
a		320	5,104							
b		80	64							
c		1,760	11,580							

[illegible]

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., 1959 wells	Producing zone		
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
DICKINSON COUNTY								
Ash Grove ('54)	5-15-1E	620	16,628	142,509	9	Mississippian	2,569	3
Bonaccord ('43)	30-14-1E	10	629	44,108	1	"Burgess"	2,483	2
Bonaccord Northeast ('56)	29-14-1E	40	9,387	23,071	3	"Burgess"	2,502	3
Lost Springs*	16-4E				58	"Chat"	2,300	
a		640	6,179					
b		26,520	42,041					
Lost Springs North ('45)	22-16-4E		Combined with Lost Springs			"Chat"	2,300	33
Lost Springs Northeast ('47)	26-16-4E		Combined with Lost Springs			"Chat"	2,300	
Lost Springs Northwest ('55)	20-16-4E		Combined with Lost Springs			Mississippian	2,267	
Miscellaneous		40	685	2,448	1+			
Total Dickinson County		27,870	75,549	1,452,025	72			5
DOUGLAS COUNTY								
Baldwin* ('19)	12-15-20E				36	"Squirrel"	800	
a		120	23,675					
b		1,280	2,925					
Eudora South	13-21E	10	59		1	"Squirrel"	700	
Miscellaneous		10	226		1+			
Total Douglas County		1,420	26,885	131,341 recorded	38			1

EDWARDS COUNTY									
Bradbridge ('48)	2-24-16W	120	4,235	122,616	3	Arbuckle	4,020		
Edstaff ('55)	12-25-16W	140	397	1,623	4	Penn. congl.	4,230		
Embry ('53)	23-24-16W	220	1,812	25,942	7	Lans.-K.C.	3,789	4	32
						"Kinderhook"	4,292	38	
English ('59)	31-25-16W	40	3,949	3,949	1	Mississippian	4,479	7	35.2
Enlow ('53)	9-24-16W	240	19,600	232,840	7	Lans.-K.C.	3,736	7	29.5
Fatzer (revived) ('59)	14-26-17W		no report	790		Mississippian	4,504	15	38
Hawley ('59)	7-24-16W	40	400	400	1	Mississippian	4,241	18	36
J H M ('58)	33-25-16W		Combined with Wil			Penn.-Miss.	4,415	20	
Kirk ('55)	26-26-16W	80	6,545	19,090	2	"Kinderhook"	4,481	20	
McClanahan ('58)	2-26-18W	160	25,504	26,511	4	Penn. congl.	4,612	4	
Massey ('57)	3-24-17W	40	56	3,123	1	Mississippian	4,289	3	
			Abandoned during 1959						
Sturgeon ('54)	33-26-18W	80	5,995	38,956	2	Lans.-K.C.	4,223		38
						Viola	4,721	5	38
Trousdale ('56)	21-26-16W	140	34,393	94,256	6	Cherokee	4,486	4	
			14,537		2	Mississippian	4,492	5	
Trousdale North ('58)	8-26-16W	40	1,226	4,816	1	Mississippian	4,458	10	
Trousdale Northeast ('58)	15-26-16W	40	1,203	1,203	1	"Kinderhook"	4,392		
Wayne ('56)	28-24-17W	40	1,267	8,184	1	Mississippian	4,368	16	
Wil* ('57)	26-25-16W	1,640	563,128	734,744	74	"Kinderhook"	4,324		
Wil South ('58)	2-26-16W		Combined with Wil	104,904	3	Mississippian	4,401	22	
Pools or fields abandoned									
Total Edwards County		3,060	684,247	1,423,947	117				
					6				
ELK COUNTY									
Adams ('56)	29-29-13E		no report			"Burgess"	1,680		3
Arbuckle	31-9E	300	11,818		8	"Burgess"	2,250		

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing wells 1959	Producing zone	
		Area, acres	during 1959 to end, 1959		Name	Depth, Thick- ft. ness, ft. Aver. grav.
Bush-Denton ('20)	4-30-9E	220	4,351	69	"Stalnakar"	1,060 10
a					"Peru"	2,135
b		680	20,854		"Burgess"	2,300 5
Clubine	30-10E	40	1,085	1		
Collyer ('24)	30-30-11E	160	6,495	10	Kansas City	1,286 10
Dory	18-30-9E	160	1,449	4	Fort Scott	1,518
Dunkelberger ('20)	34-29-10E	620	30,775	34	Mississippian	2,570
					Kansas City	1,300 10
					Mississippian	1,970
Elk City*	31-13E	120	999	5	"Burgess"	1,360
Ferguson East	23-30-8E		no report		Arbuckle	2,900
Fleming ('50)	8-29-9E		no report		Arbuckle	2,656
Grand Summit*	3-31-8E	320	14,103	12	Kansas City	2,000
Hale-Inge* ('07)	31-12E			47	"Peru"	1,160
a		100	759			
b		40	1,380			
c		600	4,156			
d		40	1,664			
Key	31-10E	40	2,553	2	Arbuckle	2,270
Kipfer	29-13E	80	2,700	4	"New Albany"	
Liscoe	31-10E	20	3,616	1		
Logsdon		160	14,147	5		
Longton	31-12E			28	Mississippian	12
a		660	5,685			
b		60	2,842			

Longton North	29-12E	100	818	5		
Love	30-9E	140	1,222	2	Mississippi	2,370
Mills		40	659	1		
Moline	16-31-10E		no report			
New Albany	29-13E	40	127	13	"Wayside"	560
a		100	1,771			
b						
Perkins	1-30-9E		no report			
Porter	29-8E	120	18,326	10	Kansas City Arbuckle	2,050 3,000
Rettig	31-10E	40	8,559	2	Lans.-K.C.	1,550
Roby ('56)	20-28-9E	80	16,052	4	Arbuckle	2,873
Schrader ('28)	12-31-8E	400	22,038	11	Kansas City	1,520
Severy* ('22)	8-28-11E	10	64	1	Kansas City	1,200
Starr ('37)	12-31-9E	80	75	3	Mississippi	2,330
Walker ('27)	5-31-10E			4	Kansas City	1,550
a		40	917	8	Mississippi	2,225
b		140	11,254			
Ware ('55)	5-31-9E	40	1,310	1	Kansas City	1,671
Webb ('25)	23-31-10E	660	24,358	49	Kansas City	1,300
				2	Fort Scott	1,650
					Mississippi	1,975
					Arbuckle	2,300
Youngmeyer		140	9,307	8		
Miscellaneous		50	6,105	5+		
Total Elk County		6,640	254,393	353		8
			15,759,889			recorded

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- ducing wells	Producing zone		
		Area, acres	during 1959 to end, 1959	during abd., wells 1959		Name	Depth, ft.	Thick- ness, ft.	Aver. grav.
ELLIS COUNTY								
Air Base ('57)	27-13-16W	480	87,739	123,777	11	"Gorham"	3,453	4
Air Base East ('59)	25-13-16W	40	223	223	1	Lansing	3,088	8
Air-Braun ('58)	27-13-16W	40	1,645	3,687	1	Lans.-K.C.	3,502	2
Antonino ('47)	27-14-19W	140	3,508	146,581	3	Arbuckle	3,712	5
						Reagan	3,726	34
Beeching ('43)	34-15-16W	500	10,651	300,483	6	Lans.-K.C.	3,156	4
Bemis-Shutts* ('35)	16-11-17W	32,000	4,773,783	169,065,112	1,063	Shawnee	2,967	35
						Lans.-K.C.	3,408	11
						Penn. congl.	3,416	
						Simpson	3,603	10
						Arbuckle	3,380	36
Bielman ('52)	24-15-18W	160	21,748	113,557	4	Arbuckle	3,496	4
Blue Hill ('37)	14-12-16W	1,420	117,092	2,795,710	40	Topeka	3,030	5
						Lans.-K.C.	3,072	33
						"Gorham"	3,348	
						Arbuckle	3,360	6
Blue Hill Northeast ('59)	36-11-16W	40	879	879	1	Lansing	2,962	149
Blue Hill Northwest ('58)	3-12-16W	640	124,165	126,928	20	Lans.-K.C.	3,022	8
						Penn. congl.	3,333	37
						Arbuckle	3,300	6
Blue Hill Southeast ('59)	24-12-16W		no report	none		Arbuckle	3,338	7
Boos ('56)	20-15-17W	80	3,507	28,823	2	Arbuckle	3,532	5
Braun ('53)	34-13-16W	120	10,527	83,132	3	Penn. congl.	3,459	7
Brungardt* ('52)	35-10-17W	200	See Rooks Co.	86,638	7	Lans.-K.C.	3,194	

Burnham ('59)	11-14-18W	500	no report	none	25	2	Arbuckle	3,542	12
Catharine ('36)	3-13-17W	500	147,921	1,496,056			Lans.-K.C.	3,262	24
Catharine Northwest ('44)	4-13-17W	360	42,475	875,763	12		Arbuckle	3,516	13
Catharine South ('46)	15-13-17W	1,540	365,955	2,987,321	59	3	Lans.-K.C.	3,590	21
							Arbuckle	3,292	12
Catharine Townsite ('49)	9-13-17W	120	18,321	126,941	6	1	Lans.-K.C.	3,538	6
							Penn. congl.	3,555	8
Chris ('58)	34-11-16W	80	15,664	18,634	3	1	Arbuckle	3,418	13
							Lansing	3,585	18
Chrisler ('49)	22-11-16W	40	3,856	51,372	2		Arbuckle	3,042	3
							Lans.-K.C.	3,395	3
Chrisler South ('58)	27-11-16W	80	24,770	33,475	3		Shawnee	3,038	4
Cochran ('53)	8-11-18W	100	11,291	87,527	3		Lans.-K.C.	3,100	35
							Lans.-K.C.	3,158	3
Cromb ('45)	15-11-20W	320	34,729	146,828	5		Lans.-K.C.	3,328	10
Dechant ('56)	7-15-18W	80	13,235	32,826	2		Arbuckle	3,565	3
							Lans.-K.C.	3,446	8
Degenhart ('53)	15-15-17W	360	20,083	178,497	7	2	Lansing	3,627	6
							Arbuckle	3,417	8
Degenhart Southeast ('57)	23-15-17W	140	7,889	34,491	4		Lans.-K.C.	3,521	10
							Arbuckle	3,445	5
Dinges ('54)	9-15-18W	80	19,384	65,476	2		Lans.-K.C.	3,520	5
Dreiling ('49)	21-14-16W	720	62,380	987,348	29		Arbuckle	3,624	12
							Lans.-K.C.	3,120	16
Dreiling Southeast ('53)	27-14-16W	540	35,335	379,004	14	1	Arbuckle	3,367	31.7
							Lans.-K.C.	3,072	6
Eagle Creek ('54)	11-11-20W	580	66,702	473,473	11	1	Arbuckle	3,327	32
							Lans.-K.C.	3,368	12

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing abst., wells	Producing zone		
		Area, acres	during 1959 to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
Eagle Creek East ('58)	2-11-20W	40	8,968	1	Lansing	3,348	5
Ellis* ('42)	31-12-20W	1,820	92,284	26	Arb.-Reagan	3,832	8
Emmeram ('37)	4-13-16W	160	10,493	5	Lans.-K.C.	3,262	7
Emmeram Northeast ('49)	27-12-16W	1,080	86,047	25	Lans.-K.C.	3,272	3
Emmeram Townsite ('52)	6-13-16W		no report		Arbuckle	3,541	32
					Lans.-K.C.	3,291	
Engel ('56)	34-14-18W	120	19,680	3	Arbuckle	3,520	10
			4,955	1	Lans.-K.C.	3,350	6
			9,436	1	"Penn. sand"	3,621	5
Engel West ('56)	33-14-18W	40	no runs	1	Arbuckle	3,612	4
Erbert ('53)	20-12-20W	40	2,429	1	Lans.-K.C.	3,368	4
				1	Lans.-K.C.	3,527	34
Fairport* ('23)	8-12-15W	1,800	137,572	46	Arbuckle	3,906	32
					Lans.-K.C.	2,950	12
					"Gorham"	3,211	5
					Arbuckle	3,312	
					Reagan	3,350	
Fort Hays State College ('50)	1-14-19W	180	25,748	3	Lans.-K.C.	3,458	19
					Arbuckle	3,806	20
Gasaway ('58)	2-11-19W	40	999	1	Topeka	3,079	8
Giunther ('52)	17-11-19W	80	5,726	2	Lans.-K.C.	3,439	9
					Arbuckle	3,554	4
Gottschalk '57)	36-15-18W	80	1,249	2	Lans.-K.C.	3,251	7
Herbert ('58)	18-13-20W	100	12,459	2	Lansing	3,521	4
					Marmaton	3,870	196
			18,005	2	Arbuckle	3,907	19

Herl ('51)	28-14-17W	240	8,934	172,141	5	Lans.-K.C. Penn. congl. Arbuckle	3,382 3,453 3,476	8	28
Hertel Southwest ('52)	17-14-16W	40	no runs	16,501	1	Lans.-K.C.	3,215	4	38
Herzog ('40)	30-13-16W	1,260	105,342	1,897,263	21	Lans.-K.C. Arbuckle	3,232 3,450	8	
Herzog South ('59)	5-14-16W	20	4,402	4,402	1	Lansing	3,207	6	27
Heyl ('56)	20-14-17W	80	1,959	17,305	2	Arbuckle	3,513	7	
Heyl Southeast ('59)	21-14-17W	20	338	338	1	Arbuckle	3,509	9	
Holy Cross ('53)	26-12-18W	40	1,977	79,698	1	Lans.-K.C.	3,423	4	34
Holz ('59)	18-13-16W	20	1,217	1,217	1	Lansing	3,276	5	35
Irvin ('46)	6-14-19W	3,000	4,622	3,519,466	1	Lans.-K.C. Arbuckle	3,553 3,860		
Irvin East ('55)	4-14-19W	40	595,744	23,778	79	Lans.-K.C. Arbuckle	3,628 3,835	18 30	
Jacob ('51)	6-11-19W		no report	16,946	1	Lans.-K.C.	3,542	4	23
Kaiser ('59)	30-13-20W	40	14,280	14,280	2	Lansing	3,565	5	41
Koblitz West ('59)	21-12-18W	20	3,501	3,501	1	Lansing	3,406	7	32
Kraus ('36)	22-14-19W	2,400	183,707	633,288	46	Lans.-K.C. Marmaton "Sooy"	3,660 3,834 3,735	5 4 5	
Krueger* ('48)	35-10-16W	640	52,287	1,277,696	19	Arbuckle Toronto	3,732 3,235	25	
Leiker ('43)	14-15-18W	980	56,454	1,032,012	8	Lans.-K.C. Penn. congl.	3,552 3,582		
Leiker East ('53)	12-15-18W	1,360	163,714	2,106,302	20	Arbuckle	3,591	5	
Leiker North ('56)	2-15-18W	180	190,623	276,896	26	Lans.-K.C.	3,321	3	
			38,144	118,507	34	Arbuckle	3,576	13	
					5	Arbuckle	3,601	5	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abds., wells 1959	Producing zone	
			during 1959	to end, 1959		Name	Depth, ft. mess, ft. Aver. grav.
Leiker Southeast ('54)	14-15-18W	320	26,848	208,126	9	Lans.-K.C. Arbuckle	3,292 19 3,547 4 36
Leinmiller ('59)	2-12-19W	80	840	840	3	Arbuckle	3,695 13
Lieb ('56)	17-11-16W	140	35,232	152,711	6 4	Arbuckle	3,356 7
Lieb East ('57)	16-11-16W	120	13,651	21,597	4	Lansing Arbuckle	2,982 8 3,346
Meistrell Southwest ('59)	9-11-18W	20	2,992	2,992	1	Lansing	3,289 4 32.8
Mendota ('51)	5-11-20W	140	7,529	101,904	3	Lans.-K.C. Arbuckle	3,530 10 35 3,668
Neddam ('57)	16-11-18W	60	7,949	20,671	2	Lans.-K.C.	3,162 8
Nellie Belle ('55)	15-13-17W	80	14,706	63,082	3	Arbuckle	3,521 1
Nicholson* ('45)	30-11-20W	1,240	131,464	1,134,853	27	Arbuckle	3,842 12 34
Nicholson North ('52)	19-11-20W	80	12,785	39,444	2	Lans.-K.C.	3,610 4 34
North ('56)	20-15-20W	140	17,280	49,836	4 2	Lans.-K.C. Penn. congl.	3,562 8 3,862 5 3,653 3
Penny-Wann ('36)	13-15-20W	80	6,030	217,245	2	"Sooy"	
Pleasant ('44)	2-14-20W	1,880	226,309	2,753,249	47 4	Shawnee Lans.-K.C. Marmaton Penn. congl.	3,569 3,805
Polifka ('48)	7-13-17W	440	74,603	363,166	13	Arb.-Reagan Arbuckle	3,833 33 31
Potter ('56)	20-11-16W	640	142,659	262,713	19	Pleasanton Arbuckle	3,640 7 29
Potter Southeast ('59)	28-11-16W		Combined with Potter			Arbuckle	3,309 11

Raynesford ('52)	17-13-20W	120	10,403	72,618	3	Lans.-K.C.	3,535	5	30
Raynesford East ('52)	16-13-20W	320	38,753	214,485	5	Penn. congl.	3,870	9	39
Reed ('49)	5-13-17W	40	4,317	41,406	1	Arbuckle	3,861	12	
Richards ('56)	5-11-18W	40	7,383	126,096**	1	Lans.-K.C.	3,424		
Riverview ('43)	19-11-18W	1,020	91,987	2,456,699	21	Arbuckle	3,596	2	
Riverview South ('56)	32-11-18W	120	22,478	61,480	3	Lans.-K.C.	3,295	18	
Rohr ('57)	19-14-18W	40	no runs	422	1	Arbuckle	3,466	5	
Ruder ('35)	17-15-18W	640	43,579	1,446,977	8	Lans.-K.C.	3,610	4	
Ruder North ('57)	4-15-18W	120	8,490	33,726	3	Arbuckle	3,367	10	
Ruder Southwest ('59)	18-15-18W	40	513	513	1	Arbuckle	3,422	9	
Schmeidler ('44)	28-12-17W	1,300	87,001	1,031,619	20	Lans.-K.C.	3,619	4	
Schmeidler Northwest ('53)	20-12-17W	200	11,046	124,733	4	Arbuckle	3,389	6	
Schoenchen ('46)	21-15-18W	1,000	11,001	1,372,994	1	Lans.-K.C.	3,625	10	
Schoenchen Townsite ('56)	28-15-18W	40	65,602	35,041	20	Arbuckle	3,540	6	
Scurlock ('57)	20-15-16W	40	4,333	6,418	1	Lans.-K.C.	3,696	9	31
Sessin ('52)	15-11-19W	920	124	1,113,128	1	Penn. congl.	3,569	4	
Solomon ('36)	28-11-19W	3,500	144,774	4,485,458	24	Shawnee	3,255	5	
Solomon South ('57)	33-11-19W	80	16,413	50,653	2	Lans.-K.C.	3,431	7	23
Solomon Southeast ('57)	35-11-19W	220	42,437	97,661	6	Arbuckle	2,969	3	
						Arbuckle	3,291	4	
						Wabaunsee	3,499	3	
						Topeka	3,013	4	19.5
						Lans.-K.C.	2,990		
						Arbuckle	3,229	3	19.5
						Arbuckle	3,629	3	
						Arbuckle	3,652	3	
						Arbuckle	3,682	4	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- ducing add., 1959 wells	Producing zone			
		Area, acres	during 1959	to end, 1959		Name	Depth, ft.	Thick- ness, ft.	Aver. grav.
Stadelman ('57)	3-14-19W		Abandoned during 1959			Lans.-K.C.	3,721	10	
Stockrange ('57)	21-15-20W	40	7,818	19,144	1	Penn. congl.	3,864	6	
Sugarloaf ('41)	17-13-17W	700	61,340	924,241	11	Lans.-K.C.	3,391		30
						Arbuckle	3,645	9	
Sugarloaf Southeast ('41)	28-13-17W	2,300	106,988	2,860,849	16	Lans.-K.C.	3,312	8	
			387,924		46	Arbuckle	3,520		
Sunnydale ('52)	1-14-20W		no report	5,570	1	Arbuckle	3,850		
Sweet William ('50)	10-12-20W	40	2,361	24,575	1	Lans.-K.C.	3,700		35.5
						Arbuckle	3,908		
Sweet Wiliam Northwest ('56)	4-12-20W	40	2,213	14,076	1	Lans.-K.C.	3,739	8	
Toulon ('35)	3-14-17W	1,080	151,378	1,211,505	28	Marmaton	3,910	8	
						Lans.-K.C.	3,298	5	
Toulon South ('58)	14-14-17W	180	39,103	91,703	4	Arbuckle	3,512	45	
			29,563		3	Lans.-K.C.	3,302	10	
Toulon Southeast ('58)	11-14-17W		no report	43		Arbuckle	3,523	10	
Toulon Southwest ('55)	16-14-17W	220	33,192	83,852	6	Lansing	3,348	4	
						Arbuckle	3,272	8	
Trico* ('51)	30-10-20W	320	53,161	165,135	7	Arbuckle	3,504	4	
Turkville ('53)	11-11-17W	160	8,230	92,924	4	Lans.-K.C.	3,610	10	
						Arbuckle	3,165	24	24
Turkville West ('59)	10-11-17W	40	5,942	5,942	2	Arbuckle	3,359		27.5
Ubert ('36)	12-13-18W	160	19,358	355,190	6	Lans.-K.C.	3,378	6	
						Arbuckle	3,707		
Ubert North ('51)	31-12-17W	240	38,117	335,436	6	Arbuckle	3,600		31

Ubert Northwest ('52)	1-13-18W	540	112,857	914,970	18	Lans.-K.C.	3,339	33
Victoria North ('53)	6-14-16W	40	2,032	20,143	1	Arbuckle	3,592	33
Wagner ('56)	36-14-16W	40	2,307	14,122	1	Arbuckle	3,471	35
Warren ('49)	12-11-20W	40	3,420	63,324	1	Arbuckle	3,420	7
Werth ('58)	2-13-20W	60	16,472	23,691	2	Lans.-K.C.	3,458	6
Wheatland ('49)	18-15-17W	500	43,227	436,658	12	Arbuckle	3,833	14
					1	Lans.-K.C.	3,307	14
Wheatland Northwest ('53)	12-15-18W	180	10,888	61,077	5	Arbuckle	3,571	6
Wheatland Southeast ('55)	28-15-17W	140	18,357	96,950	2	Arbuckle	3,566	37
			3,482		1	Lans.-K.C.	3,335	14
			767		1	Penn. congl.	3,526	5
Wheatland Southwest ('53)	19-15-17W	560	135,761	855,299	20	Arbuckle	3,516	32
					1	Lans.-K.C.	3,252	32
Windholz ('57)	32-12-16W	40	573	3,835	1	Arbuckle	3,554	9
Younger ('44)	6-14-17W	560	54,708	595,932	14	Lans.-K.C.	3,348	5
					2	Lans.-K.C.	3,331	8
Younger South ('54)	8-14-17W	80	9,079	57,279	2	Arbuckle	3,574	18
Younger Southwest ('59)	7-14-17W	40	1,130	1,130	1	Arbuckle	3,546	7
Younger ('59)	9-12-19W	40	4,499	4,499	1	Arbuckle	3,550	26
Zimm ('59)	23-13-20W	40	3,861	3,861	1	Lansing	3,493	34
Pools or fields abandoned					1	Lansing	3,477	4
				159,823				38.8
Total Ellis County		81,140	11,222,654	226,888,085**	2,337			81
ELLSWORTH COUNTY								
Andrews ('52)	4-17-8W	180	6,170	142,109	4	Arbuckle	3,302	3
Bloomer* ('36)	36-17-11W	2,460	235,981	15,309,067	80	Lans.-K.C.	3,044	43
					5	Arbuckle	3,257	8
Geneseo-Edwards* ('34)	25-18-8W	3,600	779,159	20,370,361	137	Simpson	3,157	39
					1	Arbuckle	3,278	41

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells 1959	Name	Producing zone		
			during 1959	to end, 1959			Depth, ft.	Thick- ness, ft.	Aver. grav.
Green Garden ('54)	1-17-9W	40	5,216	34,997	2	Lans.-K.C.	3,046	4	40
Heiken ('30)	25-17-10W	640	72,913	708,823	18	Lans.-K.C. Penn. congl. Arbuckle	2,974 3,226 3,269		
Heiken North ('42)	24-17-10W	80	7,279	223,499	2	Arbuckle	3,212	2	
Kraft-Prusa* ('37)	10-17-11W	900	34,725	1,294,103	14	Shawnee Lans.-K.C. "Gorham" Arbuckle	2,885 3,160 3,335 3,281		
Lorraine ('34)	13-17-9W	1,780	49,082	11,060,533	29	Reagan Lans.-K.C. Arbuckle	3,310 3,060 3,200	5 5 120	34
Lorraine North ('53)	12-17-9W	120	18,352	144,517	4	Lans.-K.C.	3,066	5	
Maes ('52)	26-17-8W	480	58,970	1,236,359	17	Arbuckle	3,341	16	36.4
Progress ('55)	10-16-10W	140	35,243	301,152	5	Arbuckle	3,402	8	
Progress Northwest ('55)	4-16-10W	320	117,361	614,404	19	Arbuckle	3,303	8	
Stoltenberg ('31)	22-16-10W	10,000	659,707	41,904,897	270	Lans.-K.C. Simpson	3,260 3,379	2	42
West ('51)	20-17-10W	40	11,936		8	Arbuckle	3,333	14	39
Wilkins Southeast ('42)	32-17-9W	400	2,956	46,299	2	Arbuckle	3,287		
Pools or fields abandoned			8,993	498,074	1	Arbuckle	3,220	9	
				35,597	8				
Total Ellsworth County		21,180	2,150,085	93,924,791	620				25

		FINNEY COUNTY									
Beyer ('52)	24-26-33W	40	no runs	23,340	1	Lans.-K.C.	4,398	8	36		
Damme ('51)	21-22-33W	1,000	3,355	795,185	1	Marmaton	4,417	5			
			120,169		17	Morrowan	4,700				
Damme Northeast ('53)	16-22-33W	40	7,995	53,965	1	Mississippian	4,626	10	32.5		
Finnup ('53)	34-22-33W	320	60,739	464,727	8	Mississippian	4,639	10	27		
Finnup East ('53)	25-22-33W	40	1,286	12,258	1	Mississippian	4,756	6	10		
Ivanhoe ('59)	17-26-33W	60	4,777	4,777	2	Marmaton	4,442	16	30.7		
Nunn ('38)	27-21-34W	1,300	99,057	2,548,584	28	Morrowan	4,922	5	27.5		
						Kansas City		13	31		
						Marmaton					
						Cherokee	4,550				
Nunn North ('57)	22-21-34W		Included with Nunn			Mississippian	4,654	10			
Pleasant Prairie* ('54)	4-27-34W	2,560	853,172	981,044**	37	Marmaton	4,382	12			
						Morrowan	4,959	9			
Pleasant Prairie North ('59)	7-26-34W		Combined with Pleasant Prairie			Mississippian	5,041				
Pleasant Prairie						St. Louis	5,050	12	32		
Northwest ('56)	30-26-34W		Combined with Pleasant Prairie			Mississippian	5,125	23			
Sequoyah ('56)	17-23-34W	160	15,547	62,987	4	Morrowan	4,694	10			
Sonderegger ('52)	21-22-31W	40	no runs	6,543	1	Mississippian	4,737		29		
Stewart ('52)	6-23-30W	40	3,672	28,679	1	Mississippian	4,710		28		
Wampler ('59)	17-21-33W	40	4,088	4,088	1	Marmaton	4,252	12	34		
Total Finney County		5,640	1,173,857	4,986,177**	103						
		FORD COUNTY									
Konda ('56)	11-27-22W	40	no runs	6,010	1	Mississippian	5,010	32			
Pleasant Valley ('50)	34-27-21W	120	124	18,341	3	Mississippian	4,954	145			
Total Ford County		160	124	24,351	4						

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abn., wells 1959	Producing zone	
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft. Aver. grav.
FRANKLIN COUNTY							
Baldwin* ('19)	15-20E	60	602		6	"Squirrel"	800
LeLoup	15-20E	60			7	"Squirrel"	750
a		60	248				
b		100	868				
Norwood	15-20E		no report				
Ottawa	17-19E		no report				
Paola-Rantoul* ('60)	17-21E				753	"Knobtown"	300
a		140	1,248			Hepler	400
b		5,860	181,786			"Peru"	500
c		540	11,378			"Squirrel"	600
d		2,560	52,366			"Bartlesville"	700
e		100	3,769				
f		1,540	36,873				
g		80	78				
h		40	140				
i		60	1,365				
Miscellaneous		30	3,639		3+		
Total Franklin County		11,170	294,360	11,124,465 recorded	769		
GEARY COUNTY							
Ge-See* ('59)	27-11-8E		no report	none		Cherokee	1,749
Wingfield ('59)	35-11-7E		no report	none		Mississippian	1,793
							7

	15-14-29W	GOVE COUNTY				
Coberly ('51)	80	637	71,172	2	Lans.-K.C.	35.5
					Marmaton	35
Gove ('51)	120	932	32,605	3	Lans.-K.C.	30
					Mississippi	
Grinnell ('59)	40	550	550	1	Mississippi	35
Lundgren South ('52)	80	10,747	103,451	2	Mississippi	40
Pools or fields abandoned			10,534			
Total Gove County	320	12,866	218,312	8		
GRAHAM COUNTY						
Alda ('44)	100	2,878	86,149	2	Lans.-K.C.	37
Allodium ('55)	80	5,746	45,857	2	Lans.-K.C.	5
Blazier ('55)	480	105,975	385,236	12	Lans.-K.C.	8
Blazier Northwest ('57)	80	17,589	32,435	2	Lans.-K.C.	6
Brassfield ('56)	640	59,102	212,004	14	Lans.-K.C.	45
Brassfield South ('58)	40	124	880	1	Lans.-K.C.	5
Brush Creek ('55)	720	144,309	447,005	19	Lans.-K.C.	4
Brush Creek Northwest ('57)	160	26,098	61,823	4	Lans.-K.C.	3
Bryan ('59)	40	349	349	1	Lansing	6
Conness ('58)	160	37,813	55,514	5	Lans.-K.C.	4
Cooper* ('43)	9,420	960,880	11,097,491	200	Lans.-K.C.	6
				1	Arbuckle	2
Diebolt* ('53)	1,460	263,661	2,677,650	84	Lans.-K.C.	35
Dorman ('52)		Abandoned during 1959			Lans.-K.C.	7
Dorman West ('55)		Abandoned during 1959			Lans.-K.C.	6
Erick ('55)	2,080	10,725	740,858	2	Toronto	8
		431,669		48	Lans.-K.C.	5
		19,801		2	Cherokee	10

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., 1959 wells	Producing zone		
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
Elrick East ('59)	14-10-25W	40	7,550	7,550	1	Lansing	3,774	3 38
Elrick Southeast ('59)	23-10-25W	180	5,237	5,237	3	Lansing	3,751	6 41.4
Emor ('57)	34-9-25W	260	109,492	133,315	10	Lansing	4,016	12
Evergreen ('56)	22-9-23W	40	1,763	11,238	1	Lans.-K.C.	3,711	2
Evergreen Northwest ('57)	17-9-23W	680	116,840	296,254	19	Lans.-K.C.	3,826	4
Fabricius ('58)	25-7-23W	640	219,207	250,866	19	Lansing	3,637	3
Fabricius South ('58)	36-7-23W	200	33,515	35,819	5	Lansing	3,669	3
Fargo West ('51)	34-9-22W		no report	4,540		Lans.-K.C.	3,755	
Faul ('58)	22-10-22W	120	22,389	36,213	4	Lansing	3,760	4
Faulkner ('45)	27-10-22W	40	5,466	233,896	1	Lans.-K.C.	3,629	2 37
Gettysburg ('41)	7-8-23W	80	11,966	93,559	2	Marmaton	3,844	
Glen Dale Southeast ('58)	24-9-24W	80	13,045	13,882	2	Lans.-K.C.	3,725	30
Glen Dale Southwest ('57)	28-9-24W	80	13,337	38,743	3	Lansing	3,932	3
Gra-Sher ('59)	6-10-25W	280	53,911	53,911	8	Lans.-K.C.	4,026	8
Gurk ('58)	18-10-25W	100	15,321	25,988	3	Lansing	3,815	4 33
Harmony ('51)	32-7-22W	400	34,522	285,364	7	Lansing	3,824	
					2	Lans.-K.C.	3,597	37
Harmony South ('58)	7-8-22W	160	43,270	47,861	4	Arbuckle	3,776	
Harrold ('57)	29-9-21W	40	8,629	22,345	1	Lansing	3,578	8
Hatcher ('56)	6-9-21W	80	3,433	28,846	2	Arbuckle	3,885	5
Higer ('57)	20-8-23W	200	11,883	67,134	5	Arbuckle	3,722	8
Higer Northeast ('57)	17-8-23W	590	72,920	146,170	12	Lans.-K.C.	3,710	4
Highland ('51)	20-8-22W	40	1,660	19,133	1	Lans.-K.C.	3,644	5
Highland Southwest ('58)	29-8-22W	100	23,403	31,376	3	Lans.-K.C.	3,616	37
						Lansing	3,584	3

Hill City ('58)	24-8-23W	40	3,519	7,834	1	Lansing	3,601	3
Holley ('54)	3-9-24W	4,660	363,246	2,481,269	117	Lans.-K.C.	3,900	6
Holley North ('55)	29-8-24W	200	56,760	225,584	7	Lans.-K.C.	3,897	9
Holley Northwest ('57)	25-8-25W	80	14,794	30,013	2	Lans.-K.C.	3,831	5
Holley Southeast ('57)	10-9-24W	220	55,418	136,374	8	Lans.-K.C.	3,960	5
Hoof ('54)	9-10-23W	640	221,485	1,121,816	28	Lans.-K.C.	3,865	4
Hoof East ('59)	14-10-23W	140	14,020	14,020	5	Lansing	3,674	10
Hoof Northwest ('57)	6-10-23W	160	28,606	64,412	4	Lans.-K.C.	3,934	11
Hoof West ('55)	8-10-23W	200	28,509	114,520	5	Lans.-K.C.	3,903	5
Huntington ('55)	7-7-25W	200	45,425	157,147	5	Lans.-K.C.	3,832	8
Hutton ('58)	1-8-24W	40	7,311	13,506	1	Lans.-K.C.	3,764	3
Ironclad ('50)	23-9-22W	780	62,372	668,775	14	Lans.-K.C.	3,756	6
Kenyon ('57)	5-8-21W	80	1,362	5,569	2	Lans.-K.C.	3,360	5
Knoll ('57)	4-9-25W		no report	none		Lans.-K.C.	3,875	4
Knoll Northwest ('58)	5-9-25W	80	9,161	9,639	2	Lansing	3,981	5
Kobler ('58)	27-8-24W	160	28,924	38,155	4	Lans.-K.C.	3,841	15
Lacerte ('56)	32-10-22W	40	2,360	23,031	1	Lans.-K.C.	3,602	4
Law ('51)	34-9-23W	900	77,118	1,036,608	14	Lans.-K.C.	3,922	10
			4,499		1	Penn. congl.	4,126	
Law Northwest ('57)	28-9-23W	320	94,519	218,593	12	Lans.-K.C.	3,826	6
Law Southeast ('55)	12-10-23W	500	51,526	319,026	9	Lans.-K.C.	3,869	
			6,574		3	Penn. congl.	4,088	11
Lindenman ('59)	31-6-25W	40	4,964	4,964	1	Lansing	3,672	38
McVey ('58)	7-10-22W	40	2,517	6,498	1	Lans.-K.C.	3,853	2
Mickleleson ('52)	27-8-22W	140	14,971	101,175	4	Lans.-K.C.	3,502	34
						Arbuckle	3,759	16
Mildrexter ('55)	12-9-23W	580	12,649	70,319	7	Lans.-K.C.	3,814	2
Mildrexter Southeast ('58)	12-9-23W		no report	none		Lansing	3,854	4
Mildrexter Southwest ('57)	11-9-23W		Combined with Mildrexter			Lansing	3,776	17
Mitchell ('58)	20-9-24W	40	186	1,212	1	Lansing	4,053	3

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- ducing wells 1959	Producing zone			
		Area, acres	during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Montgomery ('58)	8-8-23W	100	26,056	37,506	3	Lans.-K.C.	3,511	33	
Montgomery East ('58)	4-8-23W	40	5,717	7,963	1	Lans.-K.C.	3,706	4	
Morel ('38)	15-9-21W	9,600	1,354,407	26,041,347	231	Lans.-K.C. "Sooy"	3,676	3	26.5
						Arbuckle	3,712	12	27
Morel North ('55)	3-9-21W	40	1,477	12,993	1	Penn. congl.	3,667	5	
Mt. Etna ('59)	11-7-23W	40	2,036	2,036	1	Lansing	3,651	5	38
Mount Vernon ('58)	6-7-22W	180	59,702	63,176	5	Lansing	3,759	5	
Nana ('53)	4-8-24W	580	108,214	914,699	22	Lans.-K.C.	3,738	8	
Nana Northwest ('58)	33-7-24W	220	54,179	59,039	7	Lansing	3,873	4	
Penokee ('40)	11-8-24W	130	8,816	293,444	4	Lans.-K.C.	3,750	16	43
Prairie Glen ('54)	25-10-23W	100	7,091	58,129	3	Lans.-K.C.	3,596	4	33
Prairie Glen Southeast ('55)	31-10-22W	100	8,080	73,194	3	Lans.-K.C.	3,594	8	
Prairie Glen Southwest ('58)	35-10-23W	40	4,556	6,939	1	Lansing	3,734	5.5	
Ray* ('49)	32-5-20W		no report	1,240		Lans.-K.C. Arbuckle	3,297		32
						Reagan	3,575		
Red Line ('55)	32-9-22W	420	37,085	167,571	7	Lans.-K.C.	3,540	3	
Red Line North ('55)	20-9-22W	40	4,022	22,898	1	Lans.-K.C.	3,776	3	
Robbin ('59)	18-10-22W	40	7,024	7,024	1	Penn. congl.	3,676	4	29
Sand Creek ('54)	27-8-21W		no report	10,647		Lans.-K.C.	4,031	4	30
						Arbuckle	3,387	6	
Schmied ('52)	21-8-25W	1,300	216,750	1,401,308	29	Lans.-K.C.	3,578	4	30
Schmied Northeast ('54)	10-8-25W	160	8,366	75,850	4	Lans.-K.C.	3,740	4	46.5
Schmied Northwest ('57)	5-8-25W	220	8,123	47,401	5	Lans.-K.C.	3,867	25	
Schmied South ('57)	28-8-25W		no report	none		Lansing	3,952	5	
						Lansing	3,931	5	

Schnebley ('52)	8-8-22W	40	2,044	64,259	1	Lans.-K.C.	3,507	5
Shiloh ('51)	1-9-25W	40	10,972	81,879	1	Lans.-K.C.	4,013	42
Swank ('58)	4-9-22W	40	3,697	8,780	1	Lans.-K.C.	3,611	4
						Arbuckle	3,903	10
Trico* ('51)	30-10-20W	1,800	407,980	2,193,204	54	Lans.-K.C.	3,651	7
						Arbuckle	3,786	
Van ('54)	14-9-22W	480	114,140	456,738	15	Lans.-K.C.	3,580	5
			4,306		1	Arbuckle	3,871	22
Vesper ('57)	36-9-23W	1,260	269,177	561,072	29	Lans.-K.C.	3,849	2
Vesper North ('59)	23-9-23W	40	1,525	1,525	1	Lansing	3,699	2
Wheeler ('57)	8-10-21W	200	25,208	41,858	6	Lans.-K.C.	3,702	8
						Marmaton	3,783	9
Pools or fields abandoned				128,442				
Total Graham County		47,410	6,889,023	57,444,711	1,211			17
GRANT COUNTY								
Hick ('59)	23-30-35W	40	1,583	1,583	1	Mississippi	5,392	20
Pollyana ('59)	36-27-35W	40	1,108	1,108	1	Lansing	4,090	13
Total Grant County		80	2,691	2,691	2			32
GREENWOOD COUNTY								
Atyeo-Pixlee* ('23)	7-22-10E	1,800	198,298		60	"Bartlesville"	2,350	20
						Mississippi	2,400	
Beaumont ('20)	27-8E	780	28,522		33	"Peru"	1,830	
						Mississippi	2,445	
						Arbuckle	2,740	
Beaumont North	27-9E		no report			Mississippi	2,477	
						Arbuckle	2,800	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing abn. wells 1959	Producing zone	
		Area, acres	during 1959		Name	Depth, Thick- ness, ft. ft. grav.
Beaumont South ('35)	2-28-8E	160	5,349	5	Mississippian	2,500
Blackwell ('25)	16-24-13E	440	7,233	12	Mississippian	1,650
Blankenship* ('21)	26-8E	160	8,119	11	"Bartlesville"	2,650
Brinegar	26-13E	460	5,612	21	"New Albany"	427
Browning ('24)	22-10E	1,900	767,901	130	"Bartlesville"	2,314
Burkett ('23)	24-23-10E	1,680	118,799	79	"Bartlesville"	2,000
Burt ('49)	8-26-11E	40	2,027	2	Mississippian	1,945
Climax ('25)	27-11E	40	2,498	1	Mississippian	1,900
DeMalorie-Souder ('24)	22-10E	2,520	290,528	145	"Bartlesville"	2,150
Dunaway* ('22)	34-22-13E	1,640	63,991	49	Mississippian	1,800
Eureka	31-25-11E	1,340	41,249	45	Fort Scott	1,750
Fancy ('56)	25-26-12E	180	14,016	7	Mississippian	2,000
Fankhouser* ('26)	4-22-12E	1,220	65,092	45	Mississippian	1,643
Ferrell North	28-8E	40	736	2	"Bartlesville"	1,850
Gaffney ('26)	18-24-11E	420	28,653	11	"Bartlesville"	1,850
Hamilton ('25)	7-24-12E	2,640	250,070	108	"Bartlesville"	1,650
Hinchman ('27)	17-24-13E	360	5,509	8	Mississippian	1,800
Hollis ('27)	16-23-10E	80	6,700	3	Mississippian	1,615
Hubbard	22-13E	40	861	2	"Bartlesville"	2,150
Jackson	25-8E	160	4,426	4	Cherokee	1,500
Jackson Southwest ('57)	34-25-8E	80	7,993	2	"Bartlesville"	2,608
Jobes	24-13E	no report			"Bartlesville"	1,700
Lamont ('26)	29-22-13E	2,240	149,835	64	Mississippian	1,700
				29	"Bartlesville"	42
						39
						40

Lane ('58)	5-26-12E	60	1,823	3	Mississippi	1,853	7
Ly-Green* ('54)	5-22-11E	40	464	1	"Bartlesville"	1,858	13
Madison	14-22-11E			150	5	1,800	38
a		320	4,608				
b		1,820	453,910				
Mignot ('51)	9-22-11E	40	1,627	1	"Bartlesville"	1,921	10
Ott	7-22-13E		no report		Simpson	2,236	
Polhamus ('22)	25-9E	1,280	98,250	50	3	2,180	34
Quincy* ('26)	11-25-13E			35	2	1,500	20
a		640	15,028		Mississippi	1,720	
b		40	549				
c		580	17,968				
d		120	2,942				
Reece	24-26-9E			16	2	1,380	12
a		960	16,382		Kansas City	2,100	
b		100	1,518		Mississippi		
Sallyards	25-8E	2,880	762,137	191	1	2,350	40
Salt Springs Northwest ('58)	15-26-12E		no report		"Bartlesville"	1,847	4
Scott ('25)	24-23-8E	920	59,091	39	Mississippi	2,525	40
Seeley-Wick ('22)	28-23-11E	4,560	582,638	244	15	1,930	45
Severy*	28-11E			15	Kansas City	1,200	
a		180	6,108				
b		80	1,672				
Severy North	27-11E	220	1,094	5	Kansas City	830	
Spencer ('59)	23-23-9E		no report		Mississippi	2,401	11
Stanhope	15-26-8E	240	18,892	11	Mississippi	2,450	11
Teeter* ('20)	16-23-9E			142	1	2,400	40
a		2,460	424,331		"Bartlesville"		
b		320	2,857				

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing abdl. wells 1959	Producing zone		
		Area, acres	during 1959 to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
Teichgraber ('39)	25-8E			26	2	"Bartlesville"	2,750 50
a		120	3,957				
b		40	655				
c		160	42,166				
Thrall-Asgard ('21)	14-24-9E			325	7	"Bartlesville"	2,170 45
a		3,620	656,726				
b		120	5,371				
Tonovay	25-11E			6		Mississippian	1,830 29 34
a		40	850				
b		120	1,204				
Toronto* ('13)	16-26-13E	160	1,137	5	2	"Peru" "Bartlesville"	1,000 1,700
Tucker	14-26-11E		no report				
Virgil ('16)	14-24-12E			156		"Bartlesville" Mississippian	1,550 40 38 1,700 12
a		3,580	137,786				
b		40	1,583				
Virgil North* ('20)	22-23-13E	5,500	204,126	285	1	"Bartlesville" Mississippian	1,585 52 38 1,840 12
Wiggins ('25)	30-24-11E	1,280	199,143	50	6	"Bartlesville"	1,860 15
Wilkinson ('26)	6-25-9E	380	11,613	19	7	"Bartlesville"	2,200 48
Willard	7-27-11E	220	9,248	10		Mississippian	1,900 10
Wintersheid*	23-14E	10	3,206	1		Mississippian	1,750
Zebold ('57)	27-23-9E	160	7,910	6		Mississippian	2,424 8
Zimmermann ('53)	19-23-10E	60	1,815	3		"Bartlesville"	2,296
Miscellaneous		100	8,140	4+			
Total Greenwood County		53,990	5,844,542	228,886,911 recorded	94		

		HAMILTON COUNTY						
		30-25-41W	40	9,173	9,173	1	Morrowan	8
		6-25-42W	40	6,694	32,744	1	Morrowan	10
Total Hamilton County			80	15,867	41,917	2		
HARPER COUNTY								
Attica ('58)		16-32-8W	20	248	1,135	1	Mississippian	8
Banner ('54)		27-32-7W	80	16,259	124,113	2	Viola-Simpson	6
Banner South ('56)		4-33-7W		Abandoned during 1959			"Misener"	3
Gerber ('57)		28-31-5W	140	11,055	51,597	3	Simpson	2
Gish ('57)		17-31-6W	640	21,581	513,678	2	Mississippian	7
				162,531		16	Simpson	6
Goheen ('58)		12-31-7W	80	2,175	3,571	2	Mississippian	24
Grant ('57)		20-31-7W	300	71,698	94,086	14	Simpson	13
Harper ('58)		11-32-7W	160	10,570	13,003	4	Viola	
							Simpson	
Hibbard ('57)		23-34-9W	100	2,915	3,612	3	Mississippian	14
Miller ('55)		11-33-8W	40	2,676	17,274	1	"Misener"	5
Runnymede ('53)		23-31-6W	160	42,391	110,728	4	Simpson	
Sharon* ('55)		13-32-10W	820	82,181	309,437	17	Mississippian	10
Sharon Northeast ('57)		5-32-9W	340	13,791	41,424	6	Mississippian	16
Spivey-Grabs* ('49)		13-31-9W	8,000	679,327	3,099,440	145	Mississippian	29
Stohrville ('57)		36-33-6W	300	42,055	63,541	7	Mississippian	7
Zuercher ('59)		9-32-7W	200	9,557	9,557	4	Simpson	13
Pools or fields abandoned					45,291			
Total Harper County			11,380	1,171,010	4,501,487	231		16

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- Wells ducing abd., 1959 wells	Producing zone		
		Area, acres	during 1959 to end, 1959		Name	Depth, ft.	Thick- ness, ft.	Aver. grav.
HARVEY COUNTY							
Alta Mills ('58)	29-22-2W	160	21,636	5	Simpson	3,677	5
Burrtown* ('31)	1-23-4W	Included with Reno County			Mississippian	3,266	
					"Hunton"	3,583	
Burrtown Northeast ('42)	3-23-3W	100	3,913	3	"Chat"	3,224	
DuBois* ('57)	3-25-2E	620	95,652	8	"Burgess"	3,830	8
DuBois East ('59)	36-24-2E	40	2,206	2	"Burgess"	2,835	10 41
Gingrass ('57)	17-24-2E	220	14,637	6	"Burgess"	2,831	2
			18,717	3	"Hunton"	3,226	2
Graber* ('34)	32-21-1W	40	1,707	1	"Misener"	3,323	41.1
					"Hunton"	3,274	24
Halstead ('29)	36-22-2W	1,280	36,141	16	Lans.-K.C.	2,665	3
					"Chat"	3,005	30
Harmac*	35-21-3W	180	16,755	4	"Hunton"	3,521	
Hollow-Nikkel* ('31)	30-22-3W	1,900	137,815	41	"Chat"	3,195	13 40
		Includes McPherson County Production			"Hunton"	3,507	14
					Simpson	3,500	
Sperling ('35)	23-22-2W	320	27,343	7	"Hunton"	3,279	16
Sperling South ('57)	23-22-2W	no report		1	Mississippian	2,954	13
					Viola	3,386	6
West Branch ('58)	23-23-2E	160	15,236	4	"Burgess"	2,773	2
Pools or fields abandoned			124,440				
Total Harvey County		5,020	391,758	58			4

Eubank ('58)	28-28-34W	HASKELL COUNTY				3	Lansing	4,112	17
		27,332	282,997	841	3				
		5,650			1		Marmaton	4,692	
		15,538			3		Cherokee	4,943	
		170,254			15		Morrowan	5,171	37
Eubank East ('59)	23-28-34W	7,647	7,647		2		Mississippian	5,439	6
Eubank North ('59)	4-28-34W	12,623	12,623		1		Morr.-Chest.	5,238	30
Eubank South ('58)	8-29-34W	Combined with Eubank					Morrowan	5,195	7
Eubank Southeast ('59)	35-28-34-W	6,488	6,488		1		Mississippian	5,433	12
Koenig ('58)	12-29-34W	8,663	8,663		1		Lansing	4,080	6
Pleasant Prairie* ('54)	4-27-34W	494,757	1,027,768		27		Morrowan	5,294	8
		1,800					Morrowan	4,959	9
							Mississippian	5,041	10
Satanta ('57)	21-30-34W	25,026	70,254		2		Morrowan	5,370	
Total Haskell County		3,000	774,819	1,416,440	59				
HODGEMAN COUNTY									
Goebel ('59)	14-21-24W	40	4,257	4,257	1		Mississippian	4,420	5
Hallet ('56)	15-22-25W	660	201,686	398,169	19	1	Mississippian	4,598	40
Jetmore ('50)	24-22-24W	40	1,903	87,542	1	1	Mississippian	4,580	12
Jetmore East ('59)	30-22-23W	20	378	378	1		Cherokee	4,534	3
Jetmore West ('57)	23-22-24W	40	4,777	14,456	1		Mississippian	4,558	8
Nova ('59)	17-22-23W	60	7,830	7,830	2		Mississippian	4,622	20
Ploger ('57)	10-21-25W		no report	none			Cherokee	4,280	32
Purdyville ('51)	3-24-24W	220	44,806	774,557	5		Penn. congl.	4,651	
							Mississippian	4,663	18
Saw Log Creek ('53)	36-23-22W	180	15,015	151,903	4		Marmaton	4,284	21
			7,600		1		Cherokee	4,478	8

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing abn. wells 1959	Producing zone		
		Area, acres	during 1959		Name	Depth, Thick- ness, ft.	Aver. Grav.
Valley	7-21-24W	40	3,108	3,379	1	Mississippian	4,391 3
Wieland ('56)	16-21-22W	40	1,417	8,389	1	Mississippian	4,380 16
Wieland North ('59)	9-21-22W	40	5,605	5,605	1	Mississippian	4,346 10
Total Hodgeman County		1,380	298,382	1,456,465	38	2	38.6
JOHNSON COUNTY							
Dallas	8-13-25E				3		
a		40	238				
b		20	68				
Gardner	14-22E	480	2,794		7	Marmaton	
Prairie Center			no report			Marmaton "Squirrel"	
Miscellaneous		10	226		1+		
Total Johnson County		550	3,326		11		
KEARNY COUNTY							
Lakin ('57)	34-25-36W	60	25,256	63,717	2	Mississippian	4,984 16
Patterson ('41)	23-22-38W	160	31,069	631,654	3	"Patterson"	4,748
Pleasant Prairie* ('54)	4-27-34W	80	20,727	52,433	2	Morrowan	4,959 9
South Side ('56)	13-26-35W					Mississippian	5,041
						Lansing	4,129 13
						Morrowan	4,966 8
						Mississippian	4,982 8
Total Kearny County		300	77,052	747,804	7		

KINGMAN COUNTY									
Alameda ('58)	23-28-7W	40	8,712	15,161	1	Lansing	3,599	8	
Bartholomew* ('48)	30-27-4W			65,175	6	Mississippi	3,732	25	
Included in Sedgwick County									
Basil ('53)	16-29-7W	340	7,680	306,850	2	Lans.-K.C.	3,727		
			5,236		1	Mississippi	4,150	4	
			57,610		7	Viola	4,511	3	
Bolinger ('57)	29-28-5W	180	38,819	69,399	5	Mississippi	3,897	2	
Broadway ('50)	21-28-5W	1,100	96,919	1,392,664	30	Mississippi	3,833	6	32.5
Broadway West ('54)	19-28-5W	40	248	27,273	1	Mississippi	3,884	6	36
Casley ('52)	11-28-5W	360	25,100	263,523	10	Mississippi	3,794	7	38
Cunningham* ('31)	7-28-11W	880	29,712	3,397,557	21	Lans.-K.C.	3,600	33	41
Dewey ('50)	9-28-5W	640	29,473	485,715	8	Mississippi	3,801	37	
Dresden ('51)	13-27-10W	200	8,135	1,043,275	6	Lans.-K.C.	3,806	37.9	
					33	Mississippi	4,002	8	
						Viola	4,270	2	
Evan Mound ('51)	22-27-5W		Abandoned during 1959		1	Mississippi	3,800	16	37
Gilchrist ('55)	15-30-7W	640	58,440	208,844	6	Lans.-K.C.	3,726	5	
			4,600		2	Mississippi	4,084	35	
Goetz ('56)	29-29-9W	760	763	404,226	3	Mississippi			
			148,719		17	Viola	4,408	6	
Lansdowne North ('51)	4-28-5W	40	1,000	27,064	1	Mississippi	3,814	3	40
Lock ('59)	13-30-7W	40	2,908	2,908	1	Mississippi	4,110	9	33
Orsemus ('53)	30-29-5W	140	44,538	238,041	4	Viola	4,455	12	43
						Simpson	4,468		
Orsemus South ('54)	31-29-5W		no report	450		Viola	4,483		
Pat Creek ('46)	20-28-9W	120	17,831	282,609	3	Mississippi	4,129	5	
						Viola	4,406	6	41.8
Reida ('55)	18-30-6W	80	2,541	17,956	2	Simpson	4,475	18	
						Simpson	4,502	4	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing wells 1959	Producing zone		
		Area, acres	during 1959	to end, 1959	Name	Depth, ft.	Aver. Thick- ness, ft. grav.
Reida South ('57)	19-30-6W	80	21,715	44,103	Mississippian	4,170	8
Reida West ('55)	23-30-7W		no report	12,762	Mississippian	4,143	3
Rosedale ('54)	32-29-6W	460	74,553	323,622	Lans.-K.C.	3,691	5 43
Smoots Creek ('59)	1-27-8W	40	9,694	9,694	Kansas City	3,350	3 40.9
Spivey-Grabs* ('49)	13-31-9W	11,000	1,690,266	6,617,856	Mississippian	4,205	29
Trenton ('54)	27-29-7W	1,140	389,396	747,638	Mississippian	4,117	6
Trenton South ('57)	3-30-7W	520	114,233	192,963	Mississippian	4,160	20
Willowdale ('54)	11-29-9W	660	59,578	1,038,903	Viola	4,502	4
Pools or fields abandoned				63,189			
Total Kingman County		19,500	2,948,419	17,299,420			
KIOWA COUNTY							
Alford ('44)	14-30-19W	40	3,793	15,877	Mississippian	5,040	
Greensburg ('56)	35-27-18W	40	1,200	3,802	"Kinderhook"	4,742	
G R W ('58)	36-30-16W		no report	1,190	Viola	4,734	10
Haviland ('55)	17-28-16W	160	5,260	27,312	"Kinderhook"	4,761	9
Johannsen ('54)	24-28-19W	280	4,636	22,584	Lans.-K.C.	4,284	4
Mullinville ('55)	11-28-20W	80	1,258	32,040	Mississippian	4,890	8
Nichols ('55)	20-29-18W	2,160	780,437	2,392,833	Mississippian	4,997	
Nichols Southwest ('57)	5-30-18W		Combined with Nichols		Mississippian	4,977	49
Pyle ('55)	16-29-16W	40	4,728	69,516	Mississippian	4,666	14
Quaker ('58)	10-27-19W		Abandoned during 1959		Mississippian	4,789	
Soldier Creek ('55)	24-29-16W	40	4,158	42,075	Cherokee	4,599	
					Mississippian	4,598	10

Trousdale South ('56)	4-27-16W	40	2,252	6,959	1	"Kinderhook"	4,525	33
Wellsford ('55)	15-28-16W	180	18,464	68,345	4	Marmaton	4,680	
Pools or fields abandoned				54,537		Cherokee	4,723	10
Total Kiowa County		3,060	826,186	2,737,070	89			4
LABETTE COUNTY								
Altamont	33-19E		no report			"Bartlesville"	540	
Banzet	35-19E		no report		1			
Chetopa	36-34-20E	40	5,603		5	Arbuckle	850	23
Coffeyville-Cherryvale*	32-17E				68	"Wayside"	400	
a		200	133			Fort Scott	600	
b		580	1,388			"Bartlesville"	1,000	
c		640	67,813					
d		80	911					
e		220	799					
f		200	2,083					
g		20	274					
Dartnell	31-17E				6	"Bartlesville"		
a		240	1,241					
b		80	543					
Edna	34-18E	200	2,798		5	"Bartlesville"	580	24
					1	Arbuckle	1,191	
Indenbro	31-19E		no report					
Lake Creek	1-35-19E	20	1,344		2	Arbuckle		
Mound Valley	32-18E				28	"U. Bartlesville"	630	
a		260	7,543			"L. Bartlesville"	700	
b		180	7,119			Mississippian	900	
Price ('17)	33-18E	580	19,493		39	"Bartlesville"	600	30

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abn., wells 1959	Producing zone	
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft. Aver. grav.
Valeda			no report				
Miscellaneous		40	676		4+		
Total Labette County		3,580	119,761	1,035,564	157		10
				recorded			
LEAVENWORTH COUNTY							
Banker's Life ('41)	3-10-20E	60	1,786		7	"McLouth"	1,450
LINN COUNTY							
Beagle*	19-22E		no report				
Blue Mound			no report				
Centerville* ('20)	10-21-22E				126	"Squirrel"	480
a		1,260	9,134			"Bartlesville"	720
b		40	171				
c		60	6,083				
d		80	1,398				
Critzer	22-22E		no report				
Goodrich-Parker ('22)	25-20-21E				132	Cherokee	600
a		480	2,826			"Squirrel"	20
b		40	236			"Bartlesville"	700
c		380	3,260				
d		620	23,391				
LaCygne-Cadmus	20-24E				87	1	Bandera
a		80	9,389			Labette	150
b		60	403				200
c		480	14,118				

Miscellaneous		100	1,503	10+		
Total Linn County		3,680	71,922	1,258,861 recorded	355	1
LOGAN COUNTY						
Monument ('59)	18-11-33W	40	652	652	1	4
LYON COUNTY						
Atycso-Pixlee* ('23)	7-22-10E	720	64,258		35	32
Bradfield	24-21-10E	780	80,564		41	2
Fankhouser* ('26)	4-22-12E	1,080	25,624		42	41
Ly-Green* ('54)	5-22-11E	120	1,275		3	
Ritchey-Moore	34-21-10E	10	1,816		1	36
Rock Creek ('47)	32-21-11E	200	8,470		5	38
Welch-Mohr ('53)	30-20-10E		no report			22
Total Lyon County		2,910	182,007	8,216,307 recorded	127	2
McPHERSON COUNTY						
Battle Hill ('45)	24-18-1W		no report	52,854		10
Battle Hill North ('48)	13-18-1W	40	7,586	119,608	1	17
Burch ('59)	32-17-1W	40	950	950	1	36
Burk ('48)	7-18-1W	140	6,653	139,954	3	10
Canton North ('36)	26-18-1W	540	23,439	788,772	12	3
Chindberg ('29)	18-19-2W	540	25,687	1,883,586	16	29
					1	19
Coons ('40)	13-19-1W	80	1,407	19,545	1	3,007
Crowther ('42)	26-17-1W	1,280	81,928	3,531,179	32	2,778
					1	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., wells 1959	Name	Producing zone	
			during 1959	to end, 1959			Depth, ft.	Thick- ness, ft.	Aver. grav.
Elyria ('58)	22-20-3W	520	35,468	35,468	13	Mississippian	3,068	
Georob ('47)	31-17-1W	1,480	140,040	3,160,300	42	"Chat"	2,665	3
Goessel ('58)	12-21-1W	380	80,480	127,341	19	"Hunton"	3,407	3
Gottland ('59)	3-18-3W	40	463	463	1	Simpson	3,634	10
Graber* ('34)	32-21-1W	3,420	339,330	13,925,753	111	"Misener"	3,323	41
					2	"Hunton"	3,274	24
Graber North ('51)	4-21-1W	40	369	5,290	1	Mississippian	2,955	
Groveland ('53)	10-20-4W	40	no runs	17,473	1	Viola	3,728	8
Groveland Northeast ('58)	2-20-4W	100	22,132	24,271	4	"Misener"	3,715	6
Groveland South ('53)	14-20-4W	500	145,336	497,110	21	Viola	3,719	6
Gypsum Creek* ('44)	4-17-1W	380	19,309	498,134	9	"Chat"	2,619	14
Harmac*	35-21-3W	700	100,440	358,455	20	"Hunton"	3,521	4
Henne ('40)	21-17-1W	800	29,360	1,665,037	14	"Chat"	2,658	5
Hollow Nikkel* ('31)	30-22-3W	Included with Harvey County				"Chat"	3,195	13
Jenday ('44)	1-19-2W	900	32,753	1,033,175	25	"Chat"	2,984	15
Johnson ('32)	35-19-3W	960	43,279	3,646,257	12	"Chat"	3,032	14
Johnson South ('50)	11-20-3W	40	4,504	23,981	2	Mississippian	3,043	
						Simpson	3,514	6
Larson ('58)	33-18-2W	300	29,383	36,045	8	Mississippian	2,965	15
Larson Southwest ('59)	4-19-2W	20	1,246	1,339**	1	Mississippian	2,964	14
Lindsborg* ('38)	8-17-3W	5,120	202,095	8,991,375	94	Viola	3,352	21
						Simpson	3,360	10
Lindsborg South ('55)	6-18-3W	160	16,317	88,444	3	Simpson	3,523	4
McPherson ('26)	29-18-2W	1,760	81,690	2,087,964	59	Lans.-K.C.	2,340	
						"Chat"	2,967	11
						Viola	3,140	6

Maxwell ('48)	17-18-1W	180	4,329	53,311	4	Mississippi	2,846	11	36
Mound Ridge Townsite ('58)	27-21-2W		Abandoned during 1959			"Hunton"	3,379	4	
Paden ('43)	10-18-1W	1,880	364,658	4,720,529	90	"Chat"	2,752	18	42
						Viola	3,153		
Ritz-Canton ('29)	1-20-2W	16,640	1,321,204	52,383,641	395	Lans.-K.C.	2,324	31	
						"Chat"	2,935	3	
						Maquoketa	3,395	4	
						Viola	3,412		
Round Hill ('56)	28-18-1W	160	22,977	79,539	4	Cherokee	2,832	9	
Roxbury ('38)	18-17-1W	960	36,598	3,441,048	24	Mississippi	2,853	10	35
						"Chat"	2,684	5	
						Simpson	3,278		
Roxbury South ('42)	30-17-1W	560	13,539	511,467	8	"Chat"	2,658	7	
Voshell ('29)	9-21-3W	3,200	196,567	29,922,826	64	"Chat"	3,095	15	41
						Viola	3,301	3	
Welch-Bornholdt* ('24)	35-20-6W	3,300	268,912	14,117,445	114	"Chat"	3,370		34
Pools or fields abandoned				279,377					
Total McPherson County		47,200	3,700,428	148,269,306**	644				
MARION COUNTY									
Antelope ('47)	33-18-4E		Combined with Lost Springs			Kansas City	1,840	12	
						"Chat"	2,380		
Covert-Sellers ('20)	28-21-4E	1,100	48,516		32	Viola	2,400		
Doyle Creek ('58)	6-22-3E	80	13,407	27,165	2	"Hunton"	2,891	8	
Durham ('53)	34-18-2E	280	22,919	208,889	6	Viola	2,899	2	
Edmonds* ('53)	31-22-4E	460	60,149	540,135	18	Mississippi	2,471	3	
Elbing* ('18)	18-23-4E	180	6,085		6	Kansas City	2,120		35
						Mississippi	2,400		
						Viola	2,530		

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing wells 1959	Producing zone		
		Area, acres	during 1959		Name	Depth, ft.	Thick- ness, ft.
			to end, 1959				Aver. grav.
Elbing North ('47)	27-22-4E	120	3,241	4	"Chat"	2,439	
Fairplay ('57)	25-21-4E	360	95,377	10	"Hunton"	2,458	
					Viola	2,429	2
Fanska ('43)	6-17-1E	80	2,350	3	"Chat"	2,680	
Florence ('20)	18-21-5E			7	Viola	2,300	32
a		580	5,099				
b		40	28,138				
French Creek ('55)	22-19-2E	20	486	1	Simpson	3,020	
Hillsboro ('28)	7-19-3E	80	3,954	4	Mississippian	2,470	33
					Viola	2,820	
Klenda ('59)	12-19-3E	80	3,574	4	Mississippian	2,346	27
Klenda Northwest ('59)	2-19-3E	20	528	1	Mississippian	2,345	54
Lalouette ('57)	10-21-5E	40	5,976	1	"Hunton"	2,231	6
Lehigh ('46)	27-19-1E	220	7,615	4	Mississippian	2,800	
Lehigh North ('53)	23-19-1E		no report		Viola	3,225	4
Lincolnville ('58)	1-18-4E		Combined with Lost Springs		Mississippian	2,265	35
Lost Springs* ('26)	22-17-4E		Combined with Lost Springs	485	Mississippian	2,365	
a		23,040	1,655,420				
b		80	411				
Lost Springs Southeast ('48)	10-18-4E		Combined with Lost Springs		Mississippian	2,345	42
Melcher ('57)	21-18-4E		Combined with Lost Springs		Mississippian	2,399	8
Nelson West* ('53)	30-17-5E		Combined with Lost Springs		Mississippian	2,297	
Nonken ('59)	28-22-4E		no report		Mississippian	2,439	13
Peabody ('20)	9-22-4E			28	Viola	2,500	31
a		420	25,477				
b		700	72,517				

Ratzlaff ('56)	7-19-2E	120	5,273	46,453	3		Viola	3,135	5
Shank ('52)	12-22-3E	160	3,032	94,452	3	2	Mississippian	2,474	27
Shank South ('59)	13-22-3E	20	2,405	2,405	1		Mississippian	2,510	6
Unger ('55)	8-21-3E				144	2	"Hunton"	2,809	
^a		20	2,596						
^b		2,460	1,008,136	3,491,671					
Wenger ('47)	11-21-3E	460	18,859	963,548	13		"Hunton"	2,770	37.4
Youk ('54)	20-18-2E	80	8,098		2		Viola	3,017	21.5
Total Marion County		31,300	3,109,638	43,492,924	782	22			
				recorded					

MEADE COUNTY

Adams Ranch ('48)	8-35-30W	6,600	38,697	130,050	17		Marmaton	5,346	40
Angell ('56)	30-32-29W	40	694	2,750	1		Morrowan	5,608	56
Bond ('54)	32-33-30W	120	150	11,549	3		Atoka	5,619	12
							Chesteran	5,860	26
Borchers North ('59)	5-33-28W	160	878	878	5		Morrowan	5,521	56
Borchers Northwest ('59)	1-33-29W	80	8,375	8,375	2		Morrowan	5,607	8
Bromwell ('52)	7-34-29W	40	no runs	3,958	1		Morrowan	5,901	37
Bruno ('53)	20-33-30W	40	14,094	83,781	1		Morrowan	5,656	18
Bruno Northeast ('53)	16-33-30W	40	8,074	61,219	1		Morrowan	5,721	10
Cimarron Bend ('59)	12-35-29W		no report	none			Morrowan	5,810	17
Fincham ('56)	14-35-27W	80	1,509	5,109	2		Mississippian	6,275	
Hockett ('57)	8-31-29W	120	2,369	3,465	4		Morrowan	5,390	4
							Mississippian		
Kismet East ('53)	30-33-30W	80	612	5,771	2		Morrowan	5,645	
McKinney* ('50)	2-34-26W	1,200	37,751	197,253	42		Mississippian	5,762	66
Mohler ('57)	35-33-29W	140	16,549	55,875	2		Marmaton	5,259	8
			15,198		5		Morrowan	5,769	15
Mohler Northeast ('58)	36-33-29W	300	16,606	17,714	10		Morrowan	5,690	8

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells		Producing zone			
			during 1959	to end, 1959	ducting wells	1959	Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Novinger ('51)	26-33-30W	2,400	350,420	2,426,712	34	1	Marmaton	5,270	20	41
Novinger East ('57)	36-33-30W	40	310	310	1	1	Morrowan	5,765	21	
							Mississippian	5,803		
							Morrowan	5,780	86	
							Lans.-K.C.	4,553	5	
Novinger Northwest ('55)	15-33-30W	80	15,814	78,124	2					
Plains ('56)	17-32-30W	120	744	1,763	3	3	Morrowan	5,611	33	
							Mississippian	3,695	15	
Sanders ('56)	13-32-29W	80	90	689	2		Mississippian	5,550		
Singley ('55)	20-33-29W	640	147,503	455,590	24	1	Morrowan	5,803	16	
							Mississippian	5,889	5	
Stevens ('52)	32-32-30W	2,000	364,953	1,417,972	34	2	Morrowan	5,560		
							Mississippian	5,713		
Total Meade County		14,400	1,041,390	4,968,907	198	5				

MIAMI COUNTY										
Beagle	19-22E		no report							
Black	18-24E	80	173		5					
Block	18-24E				15	3	"Squirrel"	500	16	
a		480	1,791							
b		60	131							
c		80	295							
Louisburg	17-25E				107		"Knobtown"	270		
a		480	58,987				"Peru"	430		
b		80	460				"Squirrel"	600		
c		340	11,670							

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TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- Wells ducing abn., 1959	Name	Producing zone	
		Area, acres	during 1959 to end, 1959			Depth, ft.	Thick- ness, ft.
							Aver. grav.
MONTGOMERY COUNTY							
Brewster	32-16E			38	"Bartlesville" Arbuckle	900	
a		180	2,130				
b		40	83				
c		40	13				
d		40	126				
e		80	453				
f		320	16,237				
g		40	226				
Caney	35-14E			41	"Bartlesville" Arbuckle	1,320	21
a		640	5,159				
b		40	887				
c		40	2,629				
Coffeyville-Cherryvale* ('02)	33-17E			325	"Wayside" Fort Scott "Bartlesville" Arbuckle	400 600 1,000 1,300	
a		1,920	42,332				
b		420	3,016				
c		140	342				
d		160	348				
e		640	25,600				
f		140	880				
g		300	5,045				
h		40	526				
i		60	732				
j		40	213				
k		60	3,116				

l	60	3,314			
m	600	7,782			
n	20	149			
o	40	72			
p	60	434			
q	20	61			
r	40	71			
s	20	246			
t	40	594			
Coleman ('21)	300	559	4	Arbuckle	1,700
Elk City*		no report		Marmaton	
Jefferson-Sycamore ('03)			287	"Weiser"	800
a	40	6,382		"Bartlesville"	1,200
b	20	5,577			
c	120	7,159			
d	640	8,430			
e	80	1,031			
f	10	267			
g	940	29,652			
h	20	3,513			
i	340	10,128			
j	40	8,418			
k	20	2,347			
l	20	564			
m	10	415			
n	20	634			
o	20	236			
p	10	1,689			
q	40	9,941			
r	60	2,768			

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abn., wells 1959	Producing zone	
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft. grav.
s		60	29,182				
t		50	5,009				
u		10	32				
v		10	1,003				
w		20	3,203				
x		20	94				
Neodesha*	31-16E				89	11	"Bartlesville"
a		640	9,912				950
b		640	7,088				
c		340	5,230				
d		280	265				
e		200	121				
Sorghum Hollow	32-14E				134		"Weiser"
Tyro ('04)	13-35-14E	2,500	37,243		66	19	"Bartlesville"
a		1,360	30,043				800
b		640	3,582				1,250
c		40	1,710				
d		20	97				
e		20	120				
Wayside-Havana* ('04)	34-14E				752	5	"Wayside"
a		40	239				575
b		6,400	171,851				700
c		20	332				1,200
Miscellaneous		340	1,460		8+		
Total Montgomery County		22,680	530,342	46,221,245	1,744	112	recorded

MORRIS COUNTY									
Burdick ('49)	15-17-5E	100	1,433	36,576	4	Mississippian	2,220	45	
Comiskey Northeast ('56)	24-16-9E	300	27,994	111,296	5	Viola	2,929	3	
John Creek ('53)	26-15-9E	980	343,857	1,254,955	39	Viola	3,090	6	
Latimer ('59)	14-15-5E	40	721	721	1	Mississippian	2,157	24	33
Nelson West* ('53)	30-17-5E	Combined with Lost Springs				Mississippian	2,297	16	
Three Mile Creek ('50)	25-16-5E	220	614	101,051	2	Mississippian	2,208	50	36
Three Mile Creek South ('50)	35-16-5E	240	4,962	156,007	9	Mississippian	2,183	24	35
Total Morris County		1,880	379,581	1,661,294 recorded	60				
MORTON COUNTY									
Boehm ('51)	14-33-42W	320	19,881	65,832	9	Morrowan			
Elkhart West ('57)	17-35-43W	40	4,951	6,292	1	Morrowan			
Interstate ('54)	29-34-43W	2,900	1,152,354	2,514,592	78	Morrowan	4,210		
Richfield ('48)	17-32-40W	240	18,815	116,486	9	Atokan	4,990		
Sparks* ('54)	34-30-42W	80	1,282	2,140	2	Morrowan	5,245		
Taloga ('55)	34-34-42W	1,300	283,377	530,091	26	Morrowan	4,428	11	
Taloga Northeast ('57)	19-34-41W	120	39,337	59,774	3	Cherokee	4,397	10	
						Morrowan	4,674		
Total Morton County		5,000	1,519,997	3,295,207	128				
NEMAHA COUNTY									
Sabetha ('50)	13-2-14E	40	2,704	67,347	2	"Hunton"	2,826	8	
Strahm ('48)	27-2-14E	140	9,422	201,967	3	"Hunton"	2,879	2	
						Viola	3,559		
Strahm East ('53)	26-2-14E		no report	7,744	1	"Hunton"	2,826	11	
Total Nemaha County		180	12,126	276,958	5				

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells 1959	Producing zone	Depth, Thick- ft. ness, ft. grav.	Aver. grav.	
			during 1959	to end, 1959					
NEOSHO COUNTY									
Erie ('03)	28-20E				330	4	"Bartlesville"	650	25
a		300	1,653						
b		2,560	47,068						
c		320	840						
d		20	237						
e		10	1,015						
f		780	19,683						
Humboldt-Chanute*	27-18E				1,181	3	"Bartlesville"	700	23
a		300	1,873						
b		9,600	251,040						
c		20	653						
d		140	4,789						
e		40	779						
f		320	11,540						
g		140	148						
h		380	487						
i		40	909						
j		660	13,954						
k		600	2,101						
l		140	775						
m		80	4,266						
Kimball	27-21E		no report						
Morehead	30-30-18E				45		"Bartlesville"	850	
a		1,140	12,322						
b		20	506						

St. Paul-Walnut*	29-21E	223	"Bartlesville"	550
a	1,320	40,895		
b	260	1,046		
c	40	90		
d	360	1,395		
e	20	179		
f	40	119		
"Thayer"	29-17E	18	2	
a	200	9,574		
b	20	141		
Trent	28-21E	133	8	530
a	20	1,283		
b	60	4,762		
c	640	64,844		
Urbana	28-18E	35	14	750
Miscellaneous	140	6,039	6+	
Total Neosho County	21,390	520,982	1,971	31
		25,937,399	recorded	
		NESS COUNTY		
Aldrich ('29)	5,200	178,387	52	4,428
Aldrich Northeast ('54)	820	160,640	22	4,325
			Warsaw	4,334
			Marmaton	4,398
			Penn. congl.	4,436
			Mississippi	4,528
			Fort Scott	4,556
Arnold ('43)	300	21,150	6	4,045
			Warsaw	4,116
			Mississippi	4,269
Cruce ('56)	40	5,081	1	5
Davenport ('55)	340	80,187	10	2
Elmore* ('58)	40	9,635	1	12
Franklin ('59)	40	3,974	1	12
			Ft. Scott	40

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells 1959	Producing zone		
			during 1959	to end, 1959		Name	Depth, ft.	Aver. grav.
Guzzlers Gulch ('59)	24-20-25W	140	9,189	9,189	5	Mississippian	4,410	10 39.2
Margheim	17-19-21W	40	7,444	8,742	1	Mississippian	4,339	8
Pabst ('58)	24-18-21W	120	41,780	63,267	5	Cherokee	4,054	5
Petersilie ('57)	14-20-24W	280	50,332	82,019	10	Mississippian	4,386	
Ryersee ('56)	35-18-21W	80	10,568	59,180	1	Cherokee	4,100	22
			3,660		2	Mississippian	4,209	6
Ryersee Southwest ('57)	3-19-21W		no report	3,779		Mississippian	4,270	5
Schoharie ('56)	22-19-23W	40	1,460	7,586	1	Marmaton	4,272	58
Vermilion ('55)	6-17-24W	40	2,939	20,788	1	Marmaton	4,385	11
Pools or fields abandoned				65,686				
Total Ness County		7,520	586,426	6,126,213	119			
NORTON COUNTY								
Densmore ('57)	12-5-22W	120	12,547	30,191	3	Lansing	3,314	8
Horesky ('59)	15-3-23W		no report	none		Reagan	3,543	5
Norton ('53)	36-3-24W	2,140	590,196	4,585,773	116	Arbuckle	3,685	9
					1	Arbuckle	3,778	12
Ray* ('40)	32-5-20W	500	104,302	653,319	12	Reagan	3,297	
						Lans.-K.C.	3,575	
						Arbuckle	3,540	13
Ray North ('54)	13-5-21W		no report	none		Reagan	3,544	
Ray Northwest ('53)	22-5-21W	120	7,272	41,298	3	Arbuckle	3,605	1
Ray West ('45)	26-5-21W	900	168,341	533,845	25	Arbuckle	3,650	9
					2	Arbuckle		31.2

Spies ('58)		35-5-25W	40	5,472	6,890	1	Lansing	3,645	3	
Pools or fields abandoned					32,505					
Total Norton County			3,820	888,130	5,883,821	160	3			
OSBORNE COUNTY										
Ruggles ('52)		23-10-15W	640	75,062	626,168	13		Shawnee Lans.-K.C.	2,986 3,024	30
Ruggles South ('57)		27-10-15W	40	2,763	11,623	1	1	Penn. congl.	3,394	16
Worley (revived) ('59)		33-10-15W	40	1,643	1,643	1		Lans.-K.C.	3,038	4
								Penn. congl.	3,408	5
Total Osborne County			720	79,468	639,434	15	1			36
PAWNEE COUNTY										
Benson ('45)		30-23-15W	1,700	63,706	1,129,189	23	1	Lans.-K.C.	3,853	68
Bow ('58)		31-22-15W	40	14,658	22,770	1		Lansing	3,625	7
Browns Grove ('57)		17-20-20W	80	12,348	37,251	2	1	Arbuckle	3,966	2
Carpenter ('55)		25-23-17W	40	3,047	29,645	1	1	Mississippian	4,325	3
								Marmaton	4,123	
								Penn.-Miss.	4,158	10
								"Kinderhook"	4,270	6
Dunes ('53)		22-22-15W	680	53,743	459,712	8		Arbuckle	3,956	24
Dunes Southwest ('53)		33-22-15W	40	2,366	36,653	1		Lans.-K.C.	3,728	8
Dunes West ('58)		21-22-15W	40	380	1,541	1		Arbuckle	3,974	6
Evers ('51)		1-22-16W	400	9,822	365,521	6		Lans.-K.C.	3,525	6
								Penn. congl.	3,814	
								Simpson	3,861	4
								Arbuckle	3,908	11
Garfield ('47)		17-23-17W	8,000	649,094	6,454,206	237	7	Penn.-Miss.	4,279	
								"Kinderhook"	4,276	5

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abn., wells 1959	Producing zone	
			during 1959	to end, 1959		Name	Depth, ft. mess, ft. Aver. grav.
Hearn ('53)	35-23-15W	120	1,805	31,926	3	Lans.-K.C. Arbuckle	3,833 4,130 5
Jac ('58)	30-21-15W	40	137	137	1	Arbuckle	3,871
Jay ('54)	3-23-15W	360	33,678	264,145	10	Lans.-K.C. Simpson	3,668 4,025 14
Jay South ('56)	9-23-15W	80	4,330	34,963	2	Simpson	4,101 6
Jessie ('58)	36-21-15W	40	5,316	9,111	1	Lans.-K.C.	3,601 7
Larned ('49)	28-21-16W	2,600	455,905	3,712,638	66	Arbuckle	3,877 5
Lovett ('54)	35-22-15W	80	6,491	47,244	2	Lans.-K.C.	3,682 8
Merritt ('57)	35-21-20W		no report	none		Cherokee	4,208 4
Newsom ('56)	25-20-20W		no report	2,483	1	Mississippian	4,270 8
Orange ('58)	33-23-17W		no report	none		Penn. congl.	4,320 10
Oro ('53)	9-20-19W	640	133,352	735,710	14	Penn. congl.	4,204 5
Pawnee Rock* ('36)	13-20-16W	2,800	132,725	4,580,015	49	Arbuckle	3,832 16
Rice ('59)	12-23-15W	40	1,486	1,486	1	Arbuckle	4,028 6
Rutherford ('46)	8-20-16W	300	10,631	349,649	4	Arbuckle	3,815 9
Ryan* ('45)	35-19-16W	320	5,145	575,146	4	Arbuckle	3,656 5
Ryan Southeast ('45)	12-20-16W	80	650	342,305	2	Arbuckle	3,688 3
Shady ('48)	35-22-16W		no report	6,038		Arbuckle	4,067
Shady Southwest ('53)	3-23-16W		no report	80,167	1	Lans.-K.C. Arbuckle	3,705 5
Shiley ('54)	14-20-20W	200	17,843	201,801	4	Arbuckle	4,094 6
Shiley East ('54)	18-20-19W	120	33,291	229,824	6	Penn. congl.	4,173 7
Sweeney ('53)	8-21-15W	220	3,311	58,211	4	Cherokee	4,223 2
Sweeney Southwest ('55)	25-21-16W		no report	6,833		Arbuckle	3,831 3
Sweeney West ('57)	14-21-16W	80	5,673	36,913	2	Simpson	3,781 13
			9,638		1	Arbuckle	3,833 3

Zook ('42)	16-23-16W	no report	7,016	Arbuckle	4,066
Pools or fields abandoned			382,196		
Total Pawnee County	19,140	1,670,571	20,232,445	456	22
PHILLIPS COUNTY					
Beckman ('51)	3-4-19W	40	1,763	1	3,201
Bow Creek ('39)	25-5-18W	80	1,107	2	3,111
Dayton ('41)	36-2-19W	1,540	32,374	18	3,430
Fredericksburg ('52)	4-1-18W	120	13,208	5	3,457
Glenwood ('51)	21-1-17W	40	394	1	3,597
Hansen ('43)	14-5-20W	1,300	186,616	38	3,363
Hansen West ('52)	15-5-20W	40	3,789	1	3,530
Huffstutter ('49)	6-2-18W	5,800	299,681	148	3,543
Huffstutter Southwest ('51)	23-2-19W	200	16,739	5	3,444
Logan ('45)	3-5-20W	420	32,380	12	3,458
Mont-Sol ('54)	1-4-19W	200	11,358	5	3,149
Ray* ('40)	32-5-20W	4,000	1,258,515	150	3,381
Slinker ('51)	25-4-20W	220	35,515	6	3,255
Stony Point ('59)	18-5-20W	40	2,430	1	3,297
Stuttgart ('50)	14-3-19W	640	26,446	13	3,575
Stuttgart South ('51)	23-3-19W	40	2,364	1	3,540
Van Dyke ('59)	1-2-19W	40	412	1	3,215
Pools or fields abandoned			10,576		36
Total Phillips County	14,760	1,925,091	33,995,196	408	3

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., 1959 wells	Producing zone		
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
PRAIRIE COUNTY								
Blowout ('52)	8-27-14W	40	2,080	15,625	1	Lans.-K.C.	3,929	7
Cairo North ('54)	6-28-11W	80	5,312	60,073	2	Viola	4,314	4
Carver-Robbins ('55)	21-27-15W	40	1,959	4,502	1	Penn. congl. Mississippian	4,472 4,509	5
Carver-Robbins Northeast ('56)	10-27-15W	40	1,174	12,461	1	Penn. congl.	4,400	9
Chance ('46)	4-27-13W	1,480	154,945	3,694,259	71	Marmaton Mississippian Viola	4,137 4,254 4,250	34.3 34 10
Chance Northwest ('54)	29-26-13W	80	4,059	79,533	2	Simpson Arbuckle	4,380 4,432	25
Chitwood ('43)	23-28-12W	2,000	868,261	10,489,874	67	Simpson Lans.-K.C. Viola	4,422 4,422	8 35
Clara* ('48)	36-29-14W	140	4,720	210,702	4	Simpson Arbuckle	4,396 4,472	14 4
Coats ('44)	24-29-14W	200	4,248	454,852	7	Simpson Simpson	4,402	12
Coats North ('54)	12-29-14W	80	4,068	107,024	2	Arbuckle Marmaton	4,342	10
Cullison ('56)	25-28-15W	40	1,018	5,536	1	Simpson Mississippian	4,584 4,543	16 13
Cunningham* ('31)	7-28-11W	3,400	79,281	5,134,400**	71	Lans.-K.C. Viola	3,390 4,330	7 41

Eads* ('59)	33-29-14W	80	24,764	24,764	2	Viola	4,501	10	35.4
Earl ('54)	36-28-14W	120	4,571	105,999	3	Lans.-K.C. Simpson	4,223 4,520	14	
Earl North ('55)	36-28-14W	40	10,211	38,839	1	Simpson	4,493	17	
Fitzsimmons ('53)	30-27-13W	120	5,739	142,989	3	Lans.-K.C.	4,056	3	38
Fitzsimmons South ('54)	31-27-13W	300	23,071	215,949	8	Lans.-K.C. Simpson	4,124 4,435	10	38
Frisbie ('43)	5-26-13W	400	26,388	548,311	8	Lans.-K.C.	3,947	8	
Frisbie Northeast ('48)	4-26-13W	400	19,580	403,198	10	Lans.-K.C. Viola	3,788 4,170	19 17	27
Haskins ('56)	5-27-14W	80	5,707	32,857	2	Simpson Lans.-K.C.	4,274 4,118	8	
Hopewell ('58)	17-26-15W	40	315	315	1	Viola	4,418	8	
Iuka-Carmi ('37)	11-27-13W	9,200	855,231	21,462,793	251	Lans.-K.C. Lans.-K.C. Marmaton Mississippian Viola	3,887 4,104 4,012 4,112 4,195	31 7 24	
Iuka-Carmi Northwest ('53)	26-26-13W	160	10,698 9,651	163,201	4 1	Simpson Arbuckle Viola Simpson Arbuckle	4,292 4,354 4,217 4,276	16	37
Jem ('57)	28-29-13W		Abandoned during 1959			Simpson	4,358	18	
Lion Northeast ('54)	21-27-11W	80	9,058	54,134	2	Simpson	4,594	4	
Ludwick ('44)	4-29-13W	40	655	39,310	1	Lans.-K.C. Simpson	3,796 4,490	3 27	38
Moore ('49)	1-26-14W	300	18,091 11,949	347,563	4 2	Lans.-K.C. Viola Simpson	3,906 4,234 4,348		37

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing abd., wells 1959	Producing zone		
		Area, acres	during 1959	to end, 1959	Name	Depth, ft.	Thick- ness, ft. Aver. grav.
Moore Southwest ('53)	11-26-14W	640	26,258	194,988	8	Lans.-K.C.	3,846
						"Kinderhook"	4,246
Moore West ('59)	4-26-14W	40	5,775	5,775	1	Simpson	4,364
Park ('59)	14-27-11W	40	7,252	7,252	1	Lansing	3,810
Randle ('55)	5-26-14W	80	11,765	58,329	2	Lansing	3,620
Reil ('57)	10-29-14W	40	1,818	6,380	1	Lans.-K.C.	3,946
Rollingson ('58)	30-27-12W	220	85,638	87,602	10	Marmaton	4,439
Sawyer ('57)	26-29-13W	180	35,702	57,145	5	Simpson	4,306
					2	Lans.-K.C.	4,096
						Simpson	4,607
						Arbuckle	4,678
School Teacher ('57)	27-28-11W	40	1,070	4,000	1	Viola	4,331
Shriver ('44)	33-29-14W	300	13,608	825,331	6	Simpson	4,557
Stark ('41)	18-26-11W		no report	859,316		Lans.-K.C.	3,601
						Viola	4,121
Stoops ('46)	7-29-12W		no report	94,767		Viola	4,446
Tatlock ('54)	28-26-15W	40	8,169	74,595	2	Lans.-K.C.	3,925
Tatlock Southwest ('58)	30-26-15W	40	309	309	1	Congl. sand	4,376
						"Kinderhook"	
Pools or fields abandoned				62,064			
Total Pratt County		20,640	2,364,168	46,186,816**	571	13	
Arbor ('59)	17-4-33W	40	5,065	5,065	1	Lansing	4,023
							21
							31

Brumm ('56)	7-2-36W	120	7,356	15,603	3	Topeka	4,168	31
						Lans.-K.C.	4,312	17
Cahoj ('59)	17-1-34W	720	50,332	50,332	25	Lansing	4,030	9
Kompus ('59)	33-1-32W	40	373	373	1	Lansing	3,890	3
Sappa Creek ('58)	24-4-34W	60	8,789	12,380	2	Marmaton	4,430	6
Waterman ('58)	15-4-33W	80	6,194	6,958	2	Lansing	3,913	14
						Marmaton	4,280	8
Wilhelm ('59)	20-1-32W	60	5,072	5,072	2	Lansing	3,880	9
								33
Total Rawlins County		1,120	83,181	95,783	36			
RENO COUNTY								
Abbyville ('27)	24-24-8W	1,040	27,436	1,072,194	14	Lans.-K.C.	3,540	9
Albion ('48)	14-26-6W	140	7,532	60,838	4	Lans.-K.C.	3,342	31
						"Chat"	3,654	
Bacon ('53)	36-23-5W	40	9,313	47,575	1	Mississippian	3,382	28
Beck ('55)	24-23-9W	100	17,537	78,064	3	Penn. congl.	3,711	4
Buhler ('38)	25-22-5W	1,200	39,221	1,443,051	16	Viola	3,890	5
						Simpson	3,897	42
Burrton* ('31)	1-23-4W	11,200	601,890	52,392,677	330	Mississippian	3,266	33
						"Hunton"	3,583	42
Castleton ('55)	29-25-6W	40	3,223	18,152	1	"Misener"	3,992	6
Haven ('51)	9-25-4W		no report	28,847		Simpson	3,977	4
Hilger ('34)	16-26-4W	160	12,930	4,855,239	2	Viola	4,062	5
Hilger Southwest ('55)	29-26-4W	200	17,102	272,857	4	"Misener"	3,955	
			30,302		5	Viola	4,012	4
Lerado ('37)	10-26-9W	800	14,900	175,348	26	Mississippian	3,857	
Morton ('42)	17-24-8W	40	1,705	54,491	1	Lans.-K.C.	3,180	12
Morton Southeast ('51)	16-24-8W	40	1,674	17,672	1	Lans.-K.C.	3,423	12
Nicklaus ('52)	3-26-4W	120	23,431	181,254	3	Lans.-K.C.	3,249	3

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abn., wells 1959	Producing zone			
			during 1959	to end, 1959		Name	Depth, ft.	Thick- ness, ft.	Aver. grav.
Prettyman ('57)	11-23-9W	40	1,368	6,657	1	Lansing	3,244	6	
Sterling* ('51)	4-22-8W	400	23,441	213,173	8	Mississippian	3,385	12	34
Stroud ('58)	34-23-5W	40	8,903	11,958	1	Simpson	3,850	3	
Stroud South ('59)	33-23-5W	40	3,491	3,491	1	"Hunton"	3,724	4	20
Wisby ('57)	18-22-9W	640	108,988	175,200	23	Simpson	3,614	4	
Wisby North ('57)	6-22-9W	180	10,980	19,964	6	Simpson	3,610	10	
Wisby South ('59)	19-22-9W	120	37,100	37,162	4	Simpson	3,630	13	43
Yoder ('35)	34-24-5W		no report	93,285		"Chat"	3,450	51	
Zenith-Peace Creek ('41)	21-23-10W		Included with Stafford County		10	Viola	3,773		
Pools or fields abandoned				2,637,235					
Total Reno County		16,580	1,002,447	63,896,384	455				
					24				
RICE COUNTY									
Bell ('53)	9-21-10W	140	12,703	167,195	4	Arbuckle	3,391	4	39
Bloomer* ('36)	36-17-11W	1,500	327,451	16,457,013	75	Lans.-K.C.	3,044	43	
					3	Arbuckle	3,257	8	43
Bredfeldt ('48)	7-18-9W	120	7,929	122,712	3	Arbuckle	3,226	8	
Bredfeldt Northwest ('56)	12-18-10W	40	1,620	11,107	1	Arbuckle	3,250	5	
Calf Creek ('50)	28-18-10W	320	49,292	301,849	12	Lans.-K.C.	3,006	12	
						Penn. congl.	3,270	10	
						Precambrian	3,143	10	40
Calf Creek North ('52)	28-18-10W	40	651	14,788	1	Arbuckle	3,248	13	
Chase-Silica* ('31)	32-19-9W	33,000	1,610,203	121,794,305	690	Wabunsee	2,285	8	
					26	Lans.-K.C.	2,942	10	40
						"Penn. sand"	3,355	8	
						Simpson	3,242		
						Arbuckle	3,252	10	48

Click Southeast ('47)	11-18-7W	100	7,811	89,613	3	Lans.-K.C.	3,065	5
Cow Creek ('46)	28-18-9W	80	14,610	15,375	2	Penn. congl.	3,154	4
Crawford ('53)	12-18-7W	280	27,560	263,140	9	Lans.-K.C.	2,950	5
Crawford Southeast ('54)	20-18-6W	80	5,808	24,299	2	Penn. congl.	3,194	7
Dymond ('55)	18-21-7W	no report	2,223			Penn. congl.	3,276	6
Farmer ('52)	24-18-10W	600	22,988	453,564	16	Mississippian	3,392	10
Farmer North ('57)	18-18-9W	80	6,269	20,277	2	Arbuckle	3,222	6
Frederick ('51)	10-18-9W	640	29,544	697,780	3	Arbuckle	3,326	6
			142,909		19	Penn. congl.	3,213	26
Galt ('52)	8-18-7W	80	2,242	92,814	1	Simpson	3,280	10
Geneseo-Edwards* ('34)	25-18-8W	5,860	900,794	44,020,139	276	Arbuckle	3,193	4
					1	Lans.-K.C.	2,787	39
						Penn. congl.	3,222	
						Simpson	3,180	39
Glen Sharrauld ('50)	20-18-10W	60	854	38,491	1	Arbuckle	3,132	41
Heinz ('38)	8-18-10W	300	8,932	359,288	7	Lans.-K.C.	3,118	25
						Lans.-K.C.	3,000	39.7
Ixl ('50)	4-19-10W	800	82,716	446,218	18	Arbuckle	3,254	14
						Lans.-K.C.	3,068	44
Lyons ('49)	14-20-8W	no report		76,381	1	Arbuckle	3,308	22
						Lans.-K.C.	3,226	
						Penn. congl.		16
						"Misener"	3,315	
Mary Ida* ('50)	31-18-10W	640	52,614	783,019	15	Arbuckle	3,277	
						Lans.-K.C.	3,033	36
Mary Ida South ('57)	6-19-10W	180	55,594	82,799	8	Arbuckle	3,272	5
						Lansing	3,038	4
						Arbuckle	3,342	5
Mooney ('58)	6-19-10W	Combined with Mary Ida South				Lans.-K.C.	3,010	4
						Arbuckle	3,309	29

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- Wells during abd., 1959	Producing zone			
		Area, acres	during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Mooney Southeast ('59) Munyon ('50)	8-19-10W		no report	none		Arbuckle	3,322	6	39.1
	34-18-10W	120	8,662	11,746	3	"Sooy"	3,270		43
Munyon South ('51) Odessa ('49)	3-19-10W	160	5,323	149,856	5	Arbuckle	3,275		
	32-18-6W	580	38,640	509,690	13	Lans.-K.C.	3,300	13	43
Odessa South ('49) Orth ('32)	9-19-6W		Included with Odessa			Lans.-K.C.	3,092	6	29.9
	27-18-10W	1,280	79,863	3,422,295	37	Shawnee	3,069	6	38.9
Orth West ('44)						Lans.-K.C.	2,915	10	40
						"Sooy"	3,187	21	
Ponce ('36) Ponce Southeast ('59)	21-18-10W	520	24,717	770,065	16	Precambrian	3,240	27	
						Shawnee	2,688	37	41.5
Prosper East ('50) Rellim ('57)	28-21-7W	140	17,720	127,869	4	Arbuckle	3,235		
	27-21-7W	60	1,365	1,365	2	"Sooy"	3,388	40	
Rick* ('36) Rick* ('36)	5-18-9W	160	6,034	217,339	4	Mississippian	3,414	18	37
	3-19-6W	700	96,748	216,184	19	Arbuckle	3,222	16	
Rick Southeast ('47)	1-19-11W	40	1,969	66,502	1	Penn.-Miss.	3,295	18	
						Lans.-K.C.	3,106		41
Rickard ('35) Ringwald ('49)	18-19-10W	100	17,846	159,184	4	Arbuckle	3,355		
						Lans.-K.C.	3,026		36
Roesler* ('43) Smyres North ('57)	22-18-9W	40	1,758	209,488	1	Arbuckle	3,334	5	
	32-18-10W	500	67,279	872,615	12	Arbuckle	3,324	7	
						Lans.-K.C.	2,947	5	37.7
						Precambrian	3,072		
	14-18-11W	300	22,797	297,644**	6	Arbuckle	3,291	7	
	23-19-6W	40	no runs	1,219	1	Mississippian	3,360	8	

Sterling* ('51)	4-22-8W	200	3,206	47,339	3	Mississippian	3,385	12
Union East ('50)	27-20-8W	140	2,250	75,484	2	"Sooy"	3,305	9
Volkland ('43)	27-18-9W	240	10,655	788,353	4	Arbuckle	3,221	30
Welch-Bornholdt* ('24)	35-20-6W	9,000	663,154	17,494,663	301	"Chat"	3,370	34
Wherry ('33)	11-21-7W	7,640	218,351	13,557,073	116	"Sooy"	3,358	22
Wisby Northeast ('58)	32-21-9W	60	7,556	7,556	2	Simpson	3,553	6
Pools or fields abandoned				418,151				
Total Rice County		66,960	4,666,987	225,856,069**	1,724			72
RILEY COUNTY								
Yaeger ('59)	25-11-8E	580	57,251	57,251	24	Penn. congl. "Hunton"	1,578	10
							1,682	8
								33.9
ROOKS COUNTY								
Arpin ('57)	5-9-20W	40	2,093	9,353	1	Arbuckle	3,655	5
Arpin East ('58)	4-9-20W	40	3,508	4,734	1	Arbuckle	3,751	21
Arpin South ('57)	8-9-20W	80	10,207	23,471	2	Arbuckle	3,714	12
Barry ('42)	11-9-19W	2,100	82,571	9,872,048	14	Lans.-K.C.		35
			429,735		51	Arbuckle	3,435	5
Barry East ('47)	6-9-18W	560	27,881	830,429	9	Lans.-K.C.	3,280	9
					1	Arbuckle	3,489	6
Barry Southeast ('46)	13-9-19W	700	84,353	2,175,913	24	Lans.-K.C.	3,228	26
						Arbuckle	3,479	7
Baum ('42)	10-10-16W	40	1,541	30,250	1	Lans.-K.C.	3,057	15
Baumgarten ('50)	25-9-19W	1,300	109,257	992,079	25	Lans.-K.C.	3,401	24.8
						Arbuckle	3,621	7
Bemis-Shutts* ('35)	16-11-17W	700	93,892	2,443,357	29	Lans.-K.C.	3,093	4
						Arbuckle	3,570	8
Berland Southeast ('53)	29-10-19W		no report	87,367	2	Arbuckle	3,755	26

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- ducing wells 1959	Name	Producing zone	
		Area, acres	during 1959	to end, 1959			Depth, ft.	Thick- ness, ft.
Brungardt* ('52)	35-10-17W	500	58,895	427,271	13	Lans.-K.C.	3,194	16
						Penn. congl.	3,449	37
						Arbuckle	3,644	
Brungardt Northwest ('53)	34-10-17W		no report	15,693	2	Penn. congl.	3,441	2
						Arbuckle	3,477	7
Carmichael ('55)	33-8-18W	120	15,269	102,923	3	Lans.-K.C.	3,210	8
Chesney ('59)	12-8-17W	160	32,434	32,434	6	Lansing	3,066	195
Colby ('53)	27-10-17W		no report	1,462		Lans.-K.C.	3,384	34.3
Cooper* ('43)	5-10-20W	1,600	148,389	2,032,799	39	Lans.-K.C.	3,619	6
						Arbuckle	3,824	19
Cresson ('56)	11-9-20W	80	6,213	32,529	2	Arbuckle	3,618	8
Dancer ('52)	4-8-17W		no report	9,671		Lans.-K.C.	3,140	12
Dopita ('34)	31-8-17W	4,000	331,800	3,149,482	85	Lans.-K.C.	3,212	5
						Arbuckle	3,409	10
Dopita East ('52)	29-8-17W	380	39,592	328,352	8	Lans.-K.C.	3,304	6
						Arbuckle	3,421	
Dorr ('42)	20-9-16W	1,000	120,310	1,691,007	47	Toronto	3,178	10
						Lans.-K.C.	3,230	21
Eilers ('59)	22-10-18W	120	27,607	27,607	3	Lansing	3,322	56
						Arbuckle	3,647	7
Faubion ('36)	12-6-18W	40	2,867	67,132	1	Lans.-K.C.	3,162	3
Fehnel ('52)	16-10-19W	80	2,892	72,382	2	Lans.-K.C.	3,480	14
Finney ('47)	14-10-18W	80	5,380	54,684	3	Lans.-K.C.	3,419	35
Finney South ('58)	24-10-18W	200	26,422	38,875	6	Lansing	3,447	48
Flagler ('55)	15-10-18W	40	7,678	27,912	1	Lans.-K.C.	3,445	6

Ganoung ('53)	31-9-17W	80	2,985	39,253	2	Lans.-K.C.	3,281	7
Gick ('47)	30-9-19W	260	22,096	362,084	7	Penn. congl.	3,524	12
Gra-Rook ('48)	30-9-20W	800	147,202	1,848,862	18	Arbuckle	3,578	34
						Penn. congl.	3,810	
						Arbuckle	3,869	4
Gra-Rook North ('56)	18-9-20W	280	12,160	57,876	4	Arbuckle	3,746	32
Gra-Rook Northeast ('59)	17-9-20W	40	5,298	5,298	1	Arbuckle	3,767	5
Grover ('50)	22-7-19W	400	13,667	204,381	9	Lans.-K.C.	3,272	30
						Arbuckle	3,272	40
Hayden ('49)	31-8-19W	400	33,312	731,837	14	Lans.-K.C.	3,408	13
						Arbuckle	3,289	32.6
Hillside ('52)	12-8-20W		Abandoned during 1959			Arbuckle	3,513	4
Jelinek ('47)	23-9-19W	2,500	446,742	5,961,186	75	1 Shawnee	3,206	8
						1 Lans.-K.C.	3,220	23
Kern ('50)	28-9-20W	200	42,255	454,425	6	Arbuckle	3,537	15
Kern West ('58)	29-9-20W	40	3,959	5,979	1	Arbuckle	3,855	5
Krueger* ('48)	35-10-16W	380	19,803	624,975	10	Arbuckle	3,859	7
						Lans.-K.C.	3,552	59
						Arbuckle		36
Kruse ('51)	3-10-16W	420	22,232	349,024	11	Lans.-K.C.	3,094	38
Kruse Northwest ('53)	34-9-16W	120	5,313	52,034	3	Lans.-K.C.	3,200	6
Laton ('27)	11-9-16W	4,100	224,240	5,505,881	98	1 Lans.-K.C.	3,228	33
Locust Grove ('49)	8-7-19W	40	2,024	29,936	1	Arbuckle	3,450	14
Lone Star ('48)	4-8-17W	900	56,642	609,241	20	1 Lans.-K.C.	3,259	17
						Arbuckle	3,382	25
Lynd ('51)	32-9-19W	1,040	42,379	521,668	15	Arbuckle	3,750	7
Lynd Southwest ('52)	5-10-19W	40	1,960	24,509	1	Arbuckle	3,759	27
McClellan ('45)	9-9-19W	40	1,449	73,742	1	2 Lans.-K.C.	3,343	29
McHale ('48)	8-9-18W	640	16,400	513,053	8	Lans.-K.C.	3,436	34
						Arbuckle	3,494	26
McMullen (revived) ('52)	33-8-17W	40	695	695	1	Lansing	3,166	2

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells 1959	Wells aband., 1959	Producing zone		
			during 1959	to end, 1959			Name	Depth, ft.	Thick- ness, ft.	Aver. grav.
Marc ('48)	18-9-19W	80	614	21,979	2		Lans.-K.C.	3,370	8
Marcotte ('43)	15-10-20W	12,480	1,595,840	20,715,788	339	2	Lans.-K.C.	3,596	6
							Arbuckle	3,752	
Mayhew ('51)	24-9-19W	460	35,938	153,984	8		Arbuckle	3,613	25
Medicine Creek ('52)	18-8-16W	80	1,573	33,233	1		Lans.-K.C.	3,054	36
Mt. Ayr ('52)	13-10-18W	140	4,774	16,281	2		Lans.-K.C.	3,554	12
							Penn. congl.	3,648	
Nettie ('48)	34-9-17W	740	96,273	1,338,732	34		Topeka	3,024	8
							Lans.-K.C.	3,243	36
							Simpson	3,499	
Nettie Southeast ('55)	2-10-17W	80	5,227	14,834	2		Arbuckle	3,513	32
Newlin ('58)	29-9-16W	40	8,744	16,541	1		Lans.-K.C.	3,268	3
Northampton ('48)	26-9-20W	1,200	18,648	4,801,442	2		Lansing	3,305	4
			365,310		52		Lans.-K.C.	3,596	4
							Arbuckle	3,803	11
Nyra ('46)	16-9-17W	500	39,972	306,011	15	1	Lans.-K.C.	3,429	
							Arbuckle	3,501	
Ordway ('58)	20-10-18W	40	1,898	6,175	1		Lansing	3,604	2
Ordway East ('59)	21-10-18W	40	1,576	1,576	1		Toronto	3,328	5
							Lansing	3,354	27
Palco Townsite ('45)	20-9-20W	80	2,080	45,884	2		Arbuckle	3,847	15
Paradise Creek ('47)	21-9-18W	1,100	87,815	2,676,275	35		Lans.-K.C.	3,400	26.5
							Arbuckle	3,576	13
Paradise Creek West ('53)	20-9-18W	200	26,275	249,951	5		Arbuckle	3,594	23
Plainville ('48)	31-9-17W	40	5,912	44,438	2		Lans.-K.C.	3,477	38
							Arbuckle	3,613	2

Pywell ('58)	31-9-18W	40	6,516	10,921	1	Penn. congl.	3,708	3
Ray Southeast ('42)	9-6-20W		no report	87,180		Reagan	3,600	6
Riffe ('51)	4-7-19W	220	48,987	117,161	10	Lans.-K.C.	3,230	36
Schindler ('59)	17-8-17W	40	3,282	3,282	1	Arbuckle	3,325	26
Slate ('51)	31-6-19W	120	4,914	50,292	3	Lans.-K.C.	3,291	26
						Arbuckle	3,545	15
Stockton ('37)	35-7-17W	400	15,612	252,652	8	Shawnee	2,692	
						Lans.-K.C.	3,180	62
Trico* ('51)	30-10-20W	3,860	329,952	2,123,183	56	Lans.-K.C.	3,543	
					1	Arbuckle	3,749	18
Vohs ('45)	14-10-19W	960	138,533	2,774,267	26	Lans.-K.C.	3,365	7
Vohs Northwest ('47)	9-10-19W	40	5,039	140,641	1	Lans.-K.C.	3,446	34
						Arbuckle	3,738	8
Vohs Southeast ('59)	24-10-19W		no report	none		Lansing	3,200	
Webster ('46)	27-8-19W	2,600	95,312	3,064,005	45	Shawnee	3,180	12
						Arbuckle	3,403	5
Westhusin ('36)	11-9-17W	1,380	72,123	2,665,027	34	Lans.-K.C.	3,231	37
					1	Arbuckle	3,408	
Whisman ('50)	9-9-20W	140	7,709	17,985	4	Lans.-K.C.	3,427	29
						Arbuckle	3,650	21
Williams ('53)	9-10-18W	600	55,743	423,057	8	Toronto	3,386	19
						Lans.-K.C.	3,459	
						Simpson	3,717	
Williams North ('56)	32-9-18W	200	32,298	82,812	7	Arbuckle	3,733	6
						Penn. congl.	3,714	3
						Simpson	3,714	3
Williams Northwest ('53)	6-10-18W	40	10,857	34,106	2	Arbuckle	3,725	3
					1	Lans.-K.C.	3,409	26
						Simpson	3,725	5

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abds., wells 1959	Name	Producing zone		
			during 1959	to end, 1959			Depth, ft.	Thick- ness, ft.	Aver. grav.
Williams Southeast ('53)	16-10-18W	600	53,455	293,660	11	Lans.-K.C.	3,444	3	36
			14,468		3	Simpson	3,660		
			13,318		2	Arbuckle			
Windy Ridge ('58)	25-10-18W		no report	none		Lans.-K.C.	3,426	19	
Yohe ('49)	4-9-18W	40	3,191	57,800	1	Lans.-K.C.	3,266	24	
Zurich ('35)	26-10-19W	840	23,924	501,583	9	Shawnee	3,087		37
						Lans.-K.C.	3,340	9	
Zurich Southwest ('52)	34-10-19W	40	3,524	29,540	1	Lans.-K.C.	3,385	9	28
Zurich Townsite ('44)	27-9-19W	360	35,536	654,089	9	Lans.-K.C.	3,462		
				154,121		Arbuckle	3,647	6	
Pools or fields abandoned									
Total Rooks County		56,540	6,066,361	86,537,643	1,428				
					21				
RUSH COUNTY									
Elmore* ('58)	12-18-21W	40	9,531	9,531	1	Cherokee	4,116	12	
Herr North ('58)	12-16-18W	40	no runs	373	1	Arbuckle	3,527	2	
Kober ('59)	18-19-20W	40	4,220	4,220	1	Cherokee	4,323	14	37
Lohrey ('56)	35-17-17W	40	1,311	1,311	1	Penn. congl.	3,563		
						Granite Wash	3,578		
Loretto Northeast ('57)	14-16-17W	80	4,423	18,514	2	Lans.-K.C.	3,452	7	
McCracken ('57)	19-17-20W	40	4,134	19,135	1	Cherokee	4,090	3	
Otis-Albert* ('34)	10-18-16W	3,000	152,464	6,312,064	76	Reagan	3,527	9	
Pechanec ('56)	2-19-17W	40	1,304	5,130	1	Arbuckle	3,842	11	
Reichel ('53)	23-17-17W	40	120	491	2	Lans.-K.C.	3,330		

Rush Center ('47)	16-18-18W	940	65,003	516,590	10	Arbuckle	3,836	15
Rush Center Northeast ('54)	10-18-18W	140	3,512	56,674	4	Arbuckle	3,783	5
Ryan* ('45)	35-19-16W	1,640	21,037	2,111,105	19	Arbuckle	3,656	5
Webs ('54)	16-19-20W	200	69,411	361,241	8	Penn. congl.	4,202	10
Webs Northwest ('55)	8-19-20W	80	7,888	33,961	2	Penn. congl.	4,240	2
Webs Southwest ('56)	16-19-20W	160	40,262	134,219	3	Cherokee	4,302	2
						"Penn. sand"		35
Weitzel ('47)	1-16-20W	40	no runs	46,773	1	Mississippian	4,400	4
Pools or fields abandoned				64,316		"Gorham"	3,674	35
Total Rush County		6,560	384,620	9,695,648	133			9
RUSSELL COUNTY								
Beaver North* ('37)	4-16-12W	60	4,136	85,289	2	Arbuckle	3,316	10
Beisel ('44)	15-14-12W	40	7,198	37,237	1	Penn. congl.	3,249	4
					1	Arbuckle	3,272	7
Boxberger ('35)	36-15-15W	40	2,094	248,507	1	Lans.-K.C.	3,147	4
Boxberger West ('57)	34-15-15W	40	10,063	23,409	1	Lans.-K.C.	3,195	5
Brundage ('57)	9-12-15W	140	59,973	192,027	11	Lans.-K.C.	2,852	4
			79,792		11	Arbuckle	3,136	4
Brundage South ('58)	16-12-15W	100	10,407	34,136	2	Lansing	2,971	5
			19,480		2	Arbuckle	3,240	6
Claussen ('44)	27-12-14W	200	5,474	121,144	5	Lans.-K.C.	2,855	39
Coal Creek ('51)	22-15-11W	40	3,732	16,380	1	Penn. congl.	3,178	
Davidson* ('30)	4-16-11W	140	9,103	260,363	3	Lans.-K.C.	3,016	
						"Sooy"	3,317	9
						Arbuckle	3,314	
Donovan ('35)	10-15-15W	120	7,050	273,901	3	Lans.-K.C.	3,193	7
Dreher ('59)	23-11-15W	40	1,192	1,192	1	Arbuckle	3,313	10

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., wells 1959	Producing zone			
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Driscoll ('56) Dubuque ('35)	30-15-11W	220	7,173	104,350	5	Penn. congl.	3,303	2	
	34-15-12W	750	33,202	1,301,567	15	Lans.-K.C. Arbuckle	3,275 3,330	3 5	
Eulert ('49)	35-11-15W	540	70,846	1,167,530	17	Arbuckle	3,316	13	22
Eulert West ('54)	34-11-15W	40	2,934	28,475	1	Lans.-K.C.	2,984	6	42.1
Fairport* ('23)	8-12-15W	6,280	902,910	26,832,703	214	Lans.-K.C.	2,950	12	32
						"Sooy"	3,137	5	
Gorham ('26)	32-13-15W	17,500	1,420,889	68,057,424	494	"Gorham"	3,211		
						Simpson	3,316		
						Arbuckle	3,312		
						Reagan	3,350		
						Shawnee	2,765		
						Lans.-K.C.	2,908	48	37
						"Gorham"	3,152	5	
						Arbuckle	3,289		
						Reagan	3,299	5	
						Arbuckle	3,273	6	28
Hagerman ('59) Hall-Gurney* ('31)	28-11-15W	40	4,637	4,637	1	Tarkio	1,985		39
	30-14-13W	29,000	3,145,266	80,466,900	1,186	Wabaunsee Topeka Oread Lans.-K.C. "Gorham" Arbuckle Precambrian	2,400 2,675 2,813 2,985 3,165 3,192 3,156	28	

Heim ('53)	21-14-12W	320	37,639	245,834	7	Lans.-K.C. Penn. congl. Arbuckle	2,897 3,189 3,238	37 11 37
Janne ('43)	24-15-12W	320	12,640	324,401	8	Lans.-K.C. Arbuckle	3,319	5
Jerry ('42)	4-15-14W	40	2,330	74,802	1	Wabaunsee Lans.-K.C. Arbuckle	2,985	
Kune ('56)	17-13-15W	120	28,578	59,452	5	Lans.-K.C. Arbuckle	3,004	15
Lang ('57)	30-15-12W		no report	none		Arbuckle	3,334	16
Machin ('58)	4-13-14W	40	5,260	9,448	1	Lansing	2,994	5
Meier ('48)	30-15-12W	140	47,257	301,091	5	Arbuckle	3,325	6
Ney ('48)	31-15-12W	140	39,581	419,979	5	Lans.-K.C. Arbuckle	3,240 3,350	6
Nuss* ('55)	5-16-14W	180	28,757	118,084	4	Lans.-K.C.	3,183	
Parker ('48)	18-15-12W	340	31,823	413,779	10	Shawnee Lans.-K.C. Arbuckle	2,957 3,086 3,259	7 16
Reich ('58)	28-12-15W	200	103,951	113,824	15	Toronto Lans.-K.C. Arbuckle	2,939 3,018	4 3
Reich South ('59)	32-12-15W	40	3,127	3,127	1	Lansing	3,031	6
Russell ('34)	22-13-14W	4,940	332,468	14,273,237	122	Lans.-K.C. Arbuckle	3,195 3,280	9 6
Russell East ('49)	25-13-14W	40	3,790	46,596	1	Arbuckle	3,273	11
S & S ('57)	36-12-15W	320	71,785	254,716	12	Lans.-K.C. Arbuckle	3,139 3,342	9 3
Strecker ('43)	21-15-14W	80	33,683 925	63,324	4 2	Arbuckle		

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing wells 1959	Producing zone		
		Area, acres	during 1959 to end, 1959		Name	Depth, ft.	Thick- ness, ft. Aver. grav.
Trapp* ('36)	23-15-14W	24,000	2,330,919	110,162,243	772	23	Tarkio Shawnee "Dodge" Lans.-K.C. Arbuckle 2,359 2,889 2,966 3,062 3,252 32 3 39
Pools or fields abandoned			313,047				
Total Russell County		86,590	8,922,064	306,454,155	2,952	58	
SALINE COUNTY							
Ash Grove West ('59)	12-15-1W	40	no report	none			"Burgess" 2,618 8
Bachofer ('51)	15-15-2W	160	10,299	97,285	4		Mississippian 2,799 6
Gillberg ('59)	28-14-2W	120	10,622	10,622	3		Maquoketa 3,223 8 33.3
Gypsum Creek* ('44)	4-17-1W	660	76,800	763,335	19		Lans.-K.C. 2,072 8
Hunter ('43)	20-16-1W	840	34,237	1,377,489	19		Mississippian 2,619 14 36
Hunter North ('48)	8-16-1W	320	18,194	333,244	7	2	Douglas 1,841 2,681 2
Lindsborg* ('38)	8-17-3W	2,200	121,631	1,379,698	57		"Chat" 2,674 21 36
Mentor ('44)	13-15-3W	100	3,209	55,188	3		Mississippian 3,381 54 35
Mortimer ('58)	5-16-1W	40	676	2,431	1		Viola 3,258 15 35.3
Olsson ('29)	10-16-3W	820	65,909	708,022	23		Mississippian 2,639 14
Salina ('43)	30-14-2W	1,400	39,391	1,174,598	14		Viola 3,303 12
Salina South ('46)	32-14-2W	600	46,324	302,743	14		Viola 3,223 8 34

Smolan ('50)	19-15-3W	3,400	161,810	4,285,111	106	2	Viola	3,386	6	37.2
Swenson ('50)	34-15-3W	100	6,537	51,490	3		Viola	3,353		
Pools or fields abandoned										
Total Saline County		10,800	595,639	10,552,541	273	4				
SCOTT COUNTY										
Grigston ('54)	10-19-31W	120	no runs	32,803	3		Mississippian	4,577		
Keystone ('50)	25-18-32W	120	16,873	259,456	3		Arbuckle	5,050	4	
Rothfelder ('57)	7-20-33W	80	10,163	23,176	2		Lans.-K.C.	4,001	6	25
Shallow Water ('35)	15-20-33W	900	13,242	1,940,208	6		Morrowan	4,672	23	
							Marmaton	4,286		25.38
							Mississippian	4,660		
Shallow Water Northeast ('59)	12-20-33W		no report	none			Ste. Genevieve	4,670	16	
							Cherokee	4,432	5	
Total Scott County		1,220	40,278	2,255,643	14					
SEDGWICK COUNTY										
Bartholomew* ('48)	30-27-4W	2,000	102,959	2,802,737	66		Kansas City	3,270	10	
		Includes Kingman County production					Mississippian	3,732	25	
Bentley ('29)	24-25-2W	40	no runs	22,250	1		Kansas City	2,866	24	
Brumley ('55)	19-29-1E	320	18,220	76,985	6	3	Lans.-K.C.	2,863	2	
							Mississippian	3,352	8	
							Simpson	3,754	1	
Buzzi ('58)	32-25-1E	40	9,474	12,449	1		"Hunton"	3,436	1	
Chambers ('48)	10-29-2W	160	6,473	11,924	4		Kansas City	2,916	5	
							Mississippian	3,540	4	44

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., wells 1959	Producing zone			
			during 1959	to end, 1959		Name	Depth, Thick- ness, ft.	Aver. grav.	
Chambers Northeast ('56)	2-29-2W	200	26,278	104,515	5	Mississippian	3,570	5	
Clearwater ('44)	22-29-2W	200	15,126	188,962	5	Lans.-K.C.	2,913	11	
Cross ('29)	27-25-1W	100	8,762	106,879	3	Lans.-K.C. "Hunton"	2,690 3,574	40 5	36
Curry ('47)	11-27-1W	460	39,463	715,973	17	Lans.-K.C. Viola	2,715 3,400		
DuBois* ('57)	3-25-2E	700	250,082	399,323	33	"Burgess"	3,830	8	
Eastborough ('29)	19-27-2E	940	37,232	9,186,490	14	"Chat"	2,956		
Eastborough North ('52)	8-27-2E	80	1,922	39,170	2	Arbuckle	3,238 3,376	25	
Fairview ('48)	8-26-2E	280	16,950	414,187	5	Lans.-K.C. "Burgess"	2,500 2,960	2	44
Fairview Northeast ('59)	4-26-2E	40	2,190	2,190	2	Mississippian	2,991	4	
Furley ('58)	10-25-2E	120	23,293	28,537	18	"Burgess"	2,904	7	42
Gehring-Rich ('52)	16-28-2E	80	2,498	22,668	2	Mississippian	2,857	13	40
Gladys ('54)	30-28-1E	37,200	1,201,831	7,531,400	233	Lans.-K.C. Mississippian	2,950 3,176	40 9	40 40
Gladys South ('55)	5-29-1E		no report	10,131		Mississippian	3,194	16	
Gladys Southeast ('55)	4-29-1E	80	1,423	16,602	2	Mississippian	3,150	15	
Gladys Southwest ('56)	7-29-1E	Abandoned during 1959			1	Kansas City	2,828	1	
Goodrich ('28)	16-25-1E	840	68,736	5,171,593	25	Lans.-K.C. "Chat" "Kinderhook"	2,614 3,010 3,334	2 16 3	
						Arbuckle	3,339	3	

Greenwich ('29)	14-26-2E	1,880	237,863	12,726,100	50	2	"Chat"	2,885	3
Hohn ('45)	22-27-1W	80	2,770	148,562	2		Viola	3,321	5
Kechi ('29)	13-26-1E		no report	34,321			Lans.-K.C.	2,779	5
Kuske ('29)	24-25-1E	800	40,029	970,040	20	1	"Burgess"	3,009	2
Latta North ('56)	33-29-2W	40	3,735	16,469	1		"Burgess"	3,016	1
Luening ('51)	33-26-2E	80	2,135	23,889	2		Lans.-K.C.	3,117	5
Minneha ('51)	11-27-2E	160	2,562	71,363	4		Simpson	3,338	8
Neuman ('57)	11-25-2E	120	12,492	43,743	3		Arbuckle	3,247	4
Petrie ('45)	36-26-1W	40	10,429		2		"Burgess"	2,785	5
Petrie Northwest ('51)	35-26-1W	40	9,550	157,365	1		Mississippian	2,784	2
Robbins ('29)	20-28-1E	860	132,587	42,135	1		Viola	3,387	1
Schulte ('47)	7-28-1W	40	3,021	5,047,636	38	1	Viola	3,445	2
Schulte South ('55)	18-28-1W	40	no runs	215,345	1		Mississippian	3,090	12
Ulmer ('59)	28-25-2E	40	no runs	6,045	1		Mississippian	3,349	45
Ulmer South ('59)	33-25-2E	40	no report				Simpson	3,658	
Valley Center ('28)	1-26-1W	1,000	46,493	22,310,497	20	1	"Burgess"	2,908	10
			Abandoned and revived during 1959	none	3		Lans.-K.C.	2,917	4
White Cotton ('48)	30-26-2E	560	15,530	8,687	10		"Burgess"	2,860	38
Wichita ('57)	4-27-1E	1,000	364,763	871,141	44	1	Lans.-K.C.	3,380	2
Pools or fields abandoned			26,916		3		"Kinderhook"	3,366	2
				209,593			Viola	2,957	2
							"Burgess"	3,325	4
							Viola		
							Simpson		
Total Sedgwick County		50,660	2,752,474	70,479,157	650	10			

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells 1959	Producing zone		
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
			SEWARD COUNTY					
Hawks ('52)	18-35-31W		no report	2,467		Morrowan	5,927	
Holt ('54)	28-32-34W	40	279	563	1	Shawnee		
Kismet ('48)	23-33-31W	40	186	16,289	1	Marmaton	5,095	5
						Morrowan	5,576	34
Kismet Northwest ('53)	10-33-31W	40	1,364	1,739	1	Morrowan	5,584	
Kismet South ('52)	26-33-31W	40	4,743	38,258	1	Mississippian	5,770	90
Kneeland ('51)	23-34-31W	40	1,457	11,300	1	Marmaton	5,332	14
Liberal-Light ('51)	11-35-32W	1,700	4,163	230,720	11	Lans.-K.C.	5,103	41
						Morrowan	6,005	40.16
Liberal Southeast ('47)	15-35-33W	160	3,840	100,754	4	Morrowan	6,202	
Massoni ('58)	4-33-31W	80	4,568	7,412	3	Marmaton	5,031	10
Plains West ('56)	16-32-31W	40	168	1,565	1	Morrowan	5,600	14
Shuck ('55)	20-33-34W	40	2,463	3,650	2	Morrowan	5,987	
						Mississippian	6,038	13
Thirty-One ('53)	18-31-31W	40	260	2,417	1	Morrowan	5,448	
Three Star ('58)	17-35-32W	40	1,742	1,742	1	Lans.-K.C.	4,546	
						Morrowan	5,866	
Wide Awake ('54)	4-35-34W	40	5,496	5,641	2	Chesteran	6,089	
						Toronto		
						Mississippian		
Total Seward County		2,340	30,729	424,517	30			

SHERIDAN COUNTY									
Adell ('44)	11-6-27W	1,900	348,263	4,800,448	50	Lans.-K.C.	3,755	4	
Advance ('56)	26-8-27W	40	5,498	55,112	1	Lans.-K.C.	3,883	9	
Custer ('55)	12-10-26W	100	14,716	52,020	3	Lans.-K.C.	4,024	5	
Custer Northwest ('59)	2-10-26W	40	611	611	1	Lansing	3,849	3	42
George ('52)	17-9-26W	100	24,486	81,374	3	Lans.-K.C.	4,023	11	41
George Southwest ('58)	18-9-26W	40	9,102	9,102	1	Lansing	3,860	10	
Hortonville ('53)	20-6-26W	120	7,218	67,152	3	Lans.-K.C.	3,789	23	29.17
Hoxie ('56)	6-9-28W	140	39,781	82,498	4	Toronto	3,810	6	
			10,325		1	Lansing	3,901	3	
Parnell ('59)	30-7-29W	40	392	392	1	Lansing	3,972	6	28
Studley ('43)	23-8-26W	320	55,353	515,346	6	Lans.-K.C.	3,810	9	
Studley South ('59)	27-8-26W	40	1,645	1,645	1	Lansing	3,746	2	27
Studley Southeast ('55)	26-8-26W	80	3,343	25,953	1	Lans.-K.C.	3,872	8	
Studley Southwest ('45)	32-8-26W	80	6,387	117,007	2	Lans.-K.C.	3,758	26	37
Wessel ('53)	27-6-29W		no report	115,562	6	Lans.-K.C.	3,985	4	38.3
Wessel North ('53)	16-6-29W	120	4,743	48,327	2	Lans.-K.C.	4,081	4	
Pools or fields abandoned				954					
Total Sheridan County		3,160	531,863	5,973,503	80				8
SHERMAN COUNTY									
Llanos ('58)	10-6-37W	160	67,943	151,590	7	Kansas City	4,439	12	
			46,917		5	Marmaton	4,504	5	
			12,815		2	Cherokee	4,804	8	
Total Sherman County		160	127,675	151,590	14				

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing wells	Producing zone			
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
STAFFORD COUNTY									
Albano ('57)	12-25-14W	80	18,191	50,082	2	Lans.-K.C. Mississippian Viola	3,812	6	
Bart-Staff* ('51)	4-21-14W	200	24,749	273,589	4	Arbuckle Lans.-K.C.	4,099 4,270	16 10	
Bayer ('51)	16-21-14W	640	9,153 5,494 76,206	408,578	1 2 8	Arbuckle Lans.-K.C. Viola Simpson	3,572 3,543 3,702 3,736	4 10 13	40
Bedford ('40)	21-23-12W	640	21,712	1,814,243	8	Arbuckle Simpson	3,778 3,832	16	
Besthorn ('56)	9-22-13W		no report	none		Arbuckle Lansing	3,859 3,574	9 8	36
Brenn ('54)	19-23-13W	640	42,383	290,128	10	Lans.-K.C.	3,651	6	33
Brock ('44)	12-23-12W		no report	437,146		Lans.-K.C. Arbuckle	3,366 3,680	14 4	
Byron East ('54)	3-21-12W		no report	none		Arbuckle	3,478	5	20.6
Byron Southeast ('51)	10-21-12W	160	3,083	59,307	4	Arbuckle	3,500	3	
Centerview ('54)	28-24-13W	380	41,608 42,544	247,392	6 6	Lans.-K.C. Arbuckle	3,834 4,188	6 5	
Cephas ('53)	10-25-14W	320	10,580	327,064	11	Lans.-K.C. Viola	3,701 4,114	5 8	38
Cephas North ('54)	35-24-14W	80	2,465	35,360	2	Lans.-K.C.	3,794	9	35
Chase-Silica* ('31)	32-19-9W	640	26,042	534,745	15	Arbuckle	3,383	10	40

Clarksburg ('55)	36-22-13W	Abandoned during 1959		Lans.-K.C.	3,576	6
Cleveland ('53)	21-23-14W	80	2,278	Lans.-K.C.	3,690	7
Cline ('58)	25-24-13W	40	9,507	Lans.-K.C.	3,594	3
Crissman ('52)	16-23-14W	400	18,468	Lans.-K.C.	3,664	8
				Simpson	3,984	16
				Arbuckle	4,006	6
Curtis ('42)	6-22-13W	780	61,974	Lans.-K.C.	3,514	7
				Arbuckle	3,693	
Dell ('50)	7-21-13W	120	3,306	Lans.-K.C.	3,446	13
Dell East ('51)	5-21-13W	320	35,185	Lans.-K.C.	3,471	8
				Arbuckle		36
Dell Northeast ('51)	5-21-13W	80	2,984	Lans.-K.C.	3,438	36
				Arbuckle	3,612	3
Dillwin ('56)	16-24-14W	760	187,880	Arbuckle	4,295	6
Drach ('37)	12-22-13W	1,480	204,410	Simpson	3,642	5
				Arbuckle	3,690	12
Duggan ('51)	30-21-11W	120	9,147	Lans.-K.C.	3,312	6
				Penn. congl.	3,479	6
				Simpson	3,505	8
				Arbuckle	3,514	
Emerson ('57)	29-25-14W	100	4,874	Lans.-K.C.	3,905	10
Farmington ('43)	34-24-15W	420	14,949	Lans.-K.C.	3,769	
				"Kinderhook"		
				Simpson	4,378	6
				Arbuckle	4,417	16
Farmington Northeast ('55)	26-24-15W	100	5,115	Arbuckle	4,416	12
Farmington Northwest ('56)	29-24-15W	120	3,889	Lans.-K.C.	3,904	8
				"Kinderhook"	4,272	10
Frey ('50)	7-21-14W	460	46,662	Arbuckle	3,717	7
						40

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., wells 1959	Producing zone		
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.
Gates ('33)	27-21-13W	6,300	775,507	11,149,585	155	5 Lans.-K.C. Penn. congl. Viola	3,530 3,643 3,635	38.7
Glasscock (revived) ('59)	32-24-13W	60	7,489	8,039	1	Arbuckle	3,679	37
Glen ('54)	14-23-14W	60	15,396	41,925	2	Lans.-K.C.	3,642	10
Gray ('46)	11-24-13W	80	2,392	60,233	2	Arbuckle	4,233	3
Green Ridge ('53)	30-23-14W	40	3,049	23,388	1	Lans.-K.C.	3,651	6
Green Valley ('53)	2-23-14W	40	1,597	27,303	1	Lans.-K.C.	3,672	30
Grow ('49)	16-21-13W	500	39,060	541,527	10	Lans.-K.C.	3,788	22
						Lans.-K.C.	3,640	10
						Arbuckle	3,463	7
Grunder ('58)	11-25-15W	180	37,644	37,644	5	Mississippian	3,705	35
Grunder Southwest ('59)	15-25-15W	40	1,163	1,163	1	Arbuckle	4,173	4
H A H ('58)	17-24-13W	40	8,396	14,456	1	Lansing	4,424	32
Hahn East ('57)	22-22-13W	no report	6,558	6,558	1	Lans.-K.C.	3,784	3
Hammond ('57)	9-25-14W	160	21,553	72,283	4	Arbuckle	3,658	8
Happy Valley ('52)	15-23-13W	40	6,388	38,909	1	Lans.-K.C.	3,828	5
						Lans.-K.C.	3,924	15
						Arbuckle	3,430	60
Happy Valley Northeast ('55)	11-23-13W	80	4,057	56,535	2	Arbuckle	3,810	9
Harter ('50)	30-24-13W	160	13,141	114,143	4	Arbuckle	3,857	10
						Lans.-K.C.	3,767	39.6
						Simpson	4,167	
						Arbuckle	4,181	
Harter North ('56)	19-24-13W	80	7,614	37,357	2	Lans.-K.C.	3,785	5

Oil and Gas Developments, 1959

213

Haynes ('59)	22-25-15W	80	6,036	6,036	2	Mississippian	4,232	9	35.4
Hazel ('42)	21-21-13W	640	35,088	1,009,942	21	Lans.-K.C.	3,380		
Hazel West ('50)	20-21-13W	640	76,668	1,304,875	25	Arbuckle	3,692	9	
Helene (revived) ('59)	17-22-12W	40	26,660	51,155	1	Lans.-K.C.	3,488	6	
Heyen ('43)	24-22-12W	460	54,233	841,463	14	Arbuckle	3,673	5	35
Heyen East ('56)	13-22-12W		no report	none		Arbuckle	3,691	4	
Hickman ('51)	27-21-14W	640	48,787	1,020,920	21	Arbuckle	3,321	12	
Hickman South ('52)	34-21-14W	40	800	45,081	1	Lans.-K.C.	3,652	2	
Hickman West ('59)	33-21-14W	120	10,436	10,436	4	Simpson	3,633	2	24.40
Hufford ('48)	33-21-13W	440	55,281	1,136,813	16	Lans.-K.C.	3,522	10	
Jordon ('36)	15-25-14W	420	32,081	1,078,023	12	Arbuckle	3,755	7	
Kachelman ('50)	7-25-13W	140	16,199	72,639	5	Lans.-K.C.	3,722	5	
Keeley ('59)	5-21-14W	60	9,639	9,639	2	Lans.-K.C.	3,946		
Keenan ('57)	20-22-13W	40	5,997	15,305	1	Viola	4,075		
Kelly West ('59)	34-23-12W	40	1,063	1,063	1	Arbuckle	4,294		
Kenilworth ('47)	15-22-13W	400	25,058	563,797	10	Lansing	3,322	5	26.9
Kipp ('37)	27-25-14W	300	8,045	704,501	4	Lansing	3,572	6	
Kipp North ('54)	23-25-14W	80	10,598	70,520	2	Lansing	3,396	6	34
Kipp Northeast ('46)	23-25-14W	120	9,697	277,794	3	Lans.-K.C.	3,505		34
Kipp Southwest ('57)	28-25-14W	100	21,071	40,791	3	Arbuckle	3,808		
Knoche South ('57)	17-24-12W	120	20,443	38,526	3	Lans.-K.C.	3,827	79	
						Simpson	4,243	6	
						Lans.-K.C.	3,748	10	32
						Lans.-K.C.	3,844		32.2
						Lans.-K.C.	3,850	8	
						Viola	3,872	5	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.			Pro- ducing abds., wells 1959	Producing zone				
		Area, acres	during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.		
Koelsch ('52)	24-24-14W	360	21,202	327,315	9	1	Lans.-K.C.	3,750	8	35
Koelsch Southeast ('52)	25-24-14W	320	5,540	495,311	6	3	Simpson	4,181	4	41
Koelsch West ('59)	23-24-14W	40	5,673	5,673	1		Arbuckle	4,187		
Kowalsky* ('41)	32-20-11W	200	64,984	282,678	6		Lans.-K.C.	3,612	4	34.7
Kowalsky Southwest ('50)	6-21-11W	360	31,694	284,424	9		Simpson	3,279		50
							Arbuckle	3,398	23	
Krankenbergl ('56)	19-22-12W		no report	6,158			Simpson	3,424		
Leesburgh ('38)	12-25-13W	740	134,253	2,861,307	16		Lans.-K.C.	3,711	5	
							Simpson	3,837	30	
							Arbuckle	4,060	24	
Leiss ('56)	23-25-13W	80	6,156	43,872	2	1	Simpson	4,153	10	
Leo ('50)	7-21-13W	120	5,032	101,571	3		Lans.-K.C.	4,215	7	
							Arbuckle	3,475		
Lincoln ('51)	29-21-14W	160	13,277	233,174	4		Arbuckle	3,636	4	
McCandless ('44)	30-25-13W	540	78,748	1,336,357	14		Lans.-K.C.	3,543	8	
			81,765		11		Simpson	3,963		
McGinty Northwest ('51)	14-21-14W		no report	33,444			Lans.-K.C.	4,251	16	
Macksville East ('54)	14-24-15W	80	4,375	54,222	2		Viola	3,483	5	
Max ('38)	35-21-12W	5,000	314,079	8,156,413	91	2	Lans.-K.C.	4,126	20	37
							Simpson	3,356	16	35.9
							Arbuckle	3,615	2	
Merle ('49)	32-23-13W	380	3,753	336,042	9		Lans.-K.C.	3,570	7	
Moody ('56)	7-25-14W	580	143,843	229,402	20		Mississippian	3,669	10	34
Mopac ('54)	30-24-11W	200	25,548	166,394	7		Viola	4,168	14	
								3,908	5	

Morning Star ('58)	1-25-14W	140	27,942	70,557	3	Mississippian	4,025	18
			17,442		2	Arbuckle		
Mt. View ('52)	29-22-13W	120	23,445	120,466	3	Lans.-K.C.	3,641	8
						Arbuckle	3,858	
Mueller ('38)	29-21-12W	4,600	350,156	7,845,599	92	Lans.-K.C.	3,356	
					2	Arbuckle	3,594	8
Nagel ('58)	10-24-15W	40	1,862	2,721	1	Lans.-K.C.	3,735	6
Neola ('48)	15-25-11W	80	2,496	41,483	2	Viola	3,921	4
Newell ('53)	7-25-11W	160	9,858	79,341	3	Lans.-K.C.	3,537	3
						Viola	3,913	3
North Star ('52)	27-24-12W	600	9,691	351,256	5	Viola	3,915	16
					3	Viola	4,063	9
O'Connor ('48)	8-24-15W	40	no runs	29,454		Simpson	3,768	11
Omlor ('57)	10-22-14W	120	23,305	39,070	3	Lans.-K.C.	3,550	9
Oscar ('49)	24-22-14W	260	4,899	205,304	4	Lans.-K.C.	3,503	35
						Viola	3,777	7
Oscar North ('51)	14-22-14W	440	71,841	749,709	12	Arbuckle	3,798	9
Oscar South ('53)	26-22-14W	480	13,389	178,115	6	Arbuckle	3,780	3
					3	Lans.-K.C.	3,580	
Oscar West ('52)	22-22-14W	900	46,277	858,857	23	Arbuckle	3,817	2
Pleasant Grove ('52)	26-22-12W	260	8,120	164,994	6	Lans.-K.C.	3,593	8
Praeger ('59)	36-24-15W	200	7,164	22,662	2	Lans.-K.C.	3,462	8
					2	Mississippian	4,209	5
Prairie Home South ('53)	11-21-13W	40	15,498	24,116	6	Arbuckle	4,392	6
Pritchard* ('44)	34-20-14W	400	1,002	349,819	1	Lans.-K.C.	3,395	3
			35,639		7	Lans.-K.C.	3,483	
Pundsack ('47)	19-21-13W	1,700	115,046	1,823,121	37	Arbuckle	3,579	4
					2	Lans.-K.C.	3,575	8
Pundsack North ('50)	18-21-13W	100	11,868	149,836	3	Arbuckle	3,735	8
						Lans.-K.C.	3,494	8
						Arbuckle	3,674	7

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abd., 1959 wells	Producing zone			
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Radium Townsite ('53)	5-22-14W	620	115,879	536,191	15	Lans.-K.C. Viola	3,584 3,754	6 12	
Radke ('53)	25-23-14W	40	1,521	18,847	1	Simpson	3,820	6	
Radke East ('54)	24-23-14W	40	1,775	15,982	1	Arbuckle	3,852	20	28.4
Rattlesnake ('38)	13-24-14W	140	3,459	223,241	3	Lans.-K.C.	3,688	12	
Rattlesnake East ('56)	7-24-13W	200	19,336	119,457	4	Lans.-K.C.	3,676	4	28
					1	Lans.-K.C.	3,608	48	
					4	Lans.-K.C.	3,694	6	
Rattlesnake North ('59)	2-24-14W	40	4,518	4,518	1	Mississippian	3,880	4	
Rattlesnake Southeast ('54)	13-24-14W	120	5,043	76,269	3	Penn. congl.	3,964	18	35
			5,643		1	Lans.-K.C.	3,758	6	
Rattlesnake Southwest ('50)	14-24-14W	40	9,971	122,241	1	Mississippian	3,936	6	
Rattlesnake West ('44)	11-24-14W	120	6,835	190,115	3	Lans.-K.C.	3,760		35.4
					3	Lans.-K.C.	3,759	7	
Richardson ('30)	36-22-12W	1,560	302,770	14,467,926	62	Mississippian	4,025		
						Lans.-K.C.	3,264		
RRiley ('40)	28-23-11W		no report	147,193		Arbuckle	3,537	62	
Rose Valley ('52)	36-25-13W	40	2,314	44,719	1	Lans.-K.C.	3,323	15	
						Lans.-K.C.	3,824	6	
Rothgarn ('43)	10-21-13W	600	14,788	393,214	8	Viola	4,137	13	
						Lans.-K.C.	3,369		
						Arbuckle	3,569	5	
Rothgran Southeast ('50)	14-21-13W	160	13,984	250,102	4	Lans.-K.C.	3,378		37
					1	Arbuckle	3,544	7	
St. John ('35)	23-24-13W	840	51,902	2,878,137	13	Lans.-K.C.	3,588	32	
					1	Arbuckle	4,075	12	

St. John East ('59)	24-24-13W	40	3,210	3,210	1	Lansing	3,543	6
St. John North ('52)	20-23-13W	40	396	26,537	1	Lans.-K.C.	3,603	4
St. John Northwest ('52)	20-23-13W	180	9,595	109,865	5	Lans.-K.C.	3,644	6
						Arbuckle	3,956	
St. John Townsite ('44)	33-23-13W	300	7,997	467,639	6	Lans.-K.C.		5
						Arbuckle	3,919	5
Sandago ('47)	12-21-12W	240	14,176	189,278	5	Arbuckle	3,480	9
Sand Hills ('44)	19-21-11W	80	10,426	88,350	2	Simpson	3,481	5
						Arbuckle	3,548	10
Saterlee ('54)	31-24-14W	200		82,191		Penn. congl.	4,166	13
			11,908		3	Mississippian	4,172	6
			9,248		3	Arbuckle	4,385	4
Sandra ('46)	14-21-12W	760	18,038	361,685	10	Lans.-K.C.	3,282	
						Arbuckle	3,546	18
Seevers ('54)	6-25-13W	120	21,112	101,957	3	Lans.-K.C.	3,893	49
Seevers Northwest ('56)	6-25-13W	560	183,462	433,306	20	Lans.-K.C.	3,826	3
						Mississippian	4,042	8
						Arbuckle	4,192	4
Shaeffer ('41)	3-21-13W	660	93,165	920,428	15	Lans.-K.C.	3,404	
						Penn. congl.	3,519	
						Simpson	3,536	
						Arbuckle	3,546	4
Shepherd ('51)	16-22-11W	300	12,984	344,215	7	Arbuckle	3,548	35
Shepherd North ('54)	9-22-11W	120	9,979	68,425	1	Lans.-K.C.	3,297	5
						Penn. congl.	3,446	8
Shepherd Northwest ('56)	8-22-11W	80	7,222	29,448	2	Simpson	3,528	8
						Arbuckle	3,516	12
Shepherd South ('53)	21-22-11W	80	279	33,627	2	Arbuckle	3,602	11
			Abandoned during 1959		2			
Silver Bell ('49)	10-22-13W	120	28,502	178,026	3	Lans.-K.C.	3,498	30
						Arbuckle	3,774	11

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- Wells ducing abt., 1959 wells	Producing zone			
			during 1959	to end, 1959		Name	Depth, Thick- ft. ness, ft.	Aver. grav.	
Sittner ('37)	33-21-12W	360	20,847	826,552	5	1	Lans.-K.C. Arbuckle	3,278 3,600	36 9
Smallwood ('51)	2-22-14W	840	45,048	953,539	19		Lans.-K.C. Arbuckle	3,474 3,576	29 11
Snider ('36)	3-21-11W	140	18,654	591,868	2	1	Simpson Arbuckle	3,362	26
Snider South ('38)	16-21-11W	500	9,119 82,414	1,759,525	2 10		Arbuckle Simpson	3,402	6 34
Spangenberg ('43)	21-22-12W		no report	84,508			Arbuckle	3,691	6
Stafford ('40)	15-24-12W	940	14,128	3,700,997	6	2	Viola Arbuckle	3,836 3,945	14 10
Strobel ('52)	9-22-14W	200	18,674	125,427	7		Lans.-K.C. Simpson	3,659	4 37
Strobel Northwest ('52)	8-22-14W	80	2,566	45,498	2		Arbuckle Simpson	3,864 3,852	8 2
Sutton ('54)	21-22-14W	80	8,828	50,123	2		Arbuckle	3,874	
Syms Southeast ('52)	27-21-12W	40	5,999	76,227	1		Lans.-K.C. Arbuckle	3,638 3,565	3 5
Taylor ('52)	15-21-14W	140	26,373	89,926	4		Lans.-K.C. Viola	3,482 3,690	5 10
Taylor Northeast ('57)	11-21-14W	300	60,015	67,067	11		Simpson	3,688	4 36
Taylor West ('59)	16-21-14W	40	3,140	3,140	1		Lans.-K.C. Simpson	3,462 3,704	6 4
Taylorville ('53)	29-25-12W	40	1,108	27,913	1		Viola	3,704 4,006	4 15
Van Winkle Southeast ('50)	26-21-14W	80	6,121	97,038	2		Lans.-K.C.	4,006 3,569	37 8

Waters ('58)	33-24-14W	40	93	2,296	1	1	"Kinderhook"	4,153	4
Waters East ('59)	33-24-14W	40	952	952	1		Lansing	3,683	4
Wendelburg ('51)	19-23-11W		no report	19,381			Arbuckle	3,729	4
White Cloud ('56)	28-22-11W	40	2,433	32,163	1		Simpson	3,575	5
							Arbuckle	3,636	2
Widener ('54)	26-21-12W	240	19,593	150,897	7		Arbuckle	3,574	7
Wil* ('57)	26-25-16W	80	8,597	19,848	2	1	"Kinderhook"	4,324	41
Zenith-Peace Creek* ('37)	23-24-11W	6,000	398,469	40,345,474	108	3	Lans.-K.C.	3,481	
Pools or fields abandoned				849,498			Viola	3,860	
Total Stafford County		60,440	5,845,204	138,426,185**	1,405	51			
STANTON COUNTY									
Beauchamp ('59)	23-30-41W	40	1,449	1,449	1		Mississippian	5,337	6
Shore ('59)	22-30-40W	40	2,684	2,684	1		Mississippian	5,316	49
Sparks ('54)	34-30-42W	200	8,769	25,068	6	1	Morrowan	5,254	45
Total Stanton County		280	12,902	29,201	8	1			
SUMNER COUNTY									
Anson ('48)	35-30-2W	720	146,447	664,350	27		Lans.-K.C.	3,264	13
Anson Southeast ('58)	12-31-2W	120	28,575	50,121	3		Lans.-K.C.	3,742	14
Ashton ('54)	19-34-2E	160	3,561	46,053	2		Mississippian	3,738	22
Ashton Northwest ('59)	13-34-1E		no report	none			"Cleveland"	3,210	34
Attebery ('59)	20-33-1W		no report	none			Mississippian	3,584	12
Badger Creek ('58)	1-34-1E	80	17,079	24,352	2		Simpson	4,282	4
Beatie ('56)	21-31-2W	80	658	18,381	1	2	Simpson	3,966	6
							Simpson	4,189	3

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Oil production, bbl.		Pro- ducing wells	Producing zone		
		Area, acres	during 1959 to end, 1959		Name	Depth, Thick- ness, ft.	Aver. grav.
Bellman ('45)	15-30-1E	80	12,287	2	Simpson	3,798	5
Bellman West ('57)	16-30-1E	80	1,381	2	Simpson	3,801	9
Bitter Creek ('53)	1-35-1E	200	46,219	10	"Stalnaker"	2,353	13
					Mississippian	3,500	15
					Mississippian	4,408	8
Caldwell ('29)	17-35-3W	160	17,816	4	Simpson	4,765	19
					Simpson	4,835	20
Caldwell Northwest ('52)	8-35-3W	40	927	1	"Stalnaker"	1,820	25
Churchill ('26)	25-31-2E	1,140	43,211	23	"Layton"	1,874	1
					Arbuckle	2,632	24
Conway Springs ('59)	5-31-3W	100	6,623	4	Simpson	4,370	6
Corbin ('48)	23-34-2W		no report		Simpson	4,475	
Crowe ('58)	10-35-1W	40	1,335	1	"Layton"	3,245	5
Fall Creek ('50)	3-35-3W	640	144,660	24	Simpson	4,746	50
Gerberding ('54)	6-34-4W	80	13,874	3	Simpson	4,710	5
Guelph ('51)	6-35-1E	500	72,528	10	Lans.-K.C.	3,028	45
			120,164	13	Simpson	3,854	10
			8,435	1	Arbuckle	3,969	
Horsch ('58)	4-31-1W	40	4,818	1	Mississippian	3,664	8
Interchange ('59)	19-32-1E	40	6,950	1	Simpson	4,053	7
Kerley ('59)	1-30-1W	40	573	1	Simpson	3,828	6
Kerschen ('55)	17-31-3W	580	126,377	18	Lans.-K.C.	3,267	
					Mississippian	3,912	10
					Lans.-K.C.	3,042	14
Latta ('27)	9-30-2W	540	56,163	11	Mississippian	3,656	12
			1,572,479				

Latta Northwest ('56)	5-30-2W	240	45,839	84,061	9	Kansas City	3,172	4
Lee ('51)	33-32-2E	160	8,033	117,033	4	Mississippian	3,349	8
McIlhenny ('58)	1-31-4W	40	5,121	5,958	1	Kansas City	3,575	3
Margaret ('46)	36-32-2E	40	1,096	109,519	1	Arbuckle	3,474	
Markley ('58)	22-30-1E	200	47,249	47,990	8	1 Simpson	3,809	5
Mayfield ('57)	19-32-2W	80	5,106	23,651	2	1 Simpson	4,278	5
Meiz ('51)	7-32-2E	40	no runs	56,080	1	Simpson	3,735	6
						Arbuckle	3,773	4
Moyer ('58)	12-31-3W	140	30,645	33,173	5	Kansas City	3,344	2
Moyer Northwest ('59)	2-31-3W	120	7,429	7,429	3	Kansas City	3,173	2
Murphy* ('33)	7-35-3E	4,200	290,403	4,911,042	219	"Layton"	2,808	38
						"Bartlesville"	3,472	10
Norris ('55)	3-34-2E	no report	no report	10,693		"Layton"	2,785	3
O'Hara ('55)	18-32-1W	420	52,349	208,962	14	Lans.-K.C.	3,256	8
Oxford ('27)	14-32-2E	800	49,388	16,679,708	21	"Hoover"	1,930	
					6	"Stalnaker"	2,020	16
						"Layton"	2,510	20
						Arbuckle	2,890	5
Oxford West ('26)	17-32-2E	300	21,533	874,232	8	Simpson	3,681	31
						Arbuckle		
Padgett ('25)	12-34-2E	5,400	113,261	3,312,761	63	"Cleveland"	3,095	8
					5	Marmaton	3,187	
						"Bartlesville"	3,424	
						Mississippian	3,474	16
						Simpson	3,744	
Padgett West ('54)	21-34-2E	no report	no report	9,584	1	"Layton"	2,829	8
						Mississippian	3,519	34
Perth ('45)	12-33-2W	500	47,682	1,185,777	8	Simpson	4,264	41
Portland ('50)	16-34-1E	360	62,683	642,363	9	"Layton"	3,030	
						Simpson	4,002	4

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abst. wells 1959	Producing zone		
			during 1959	to end, 1959		Name	Depth, ft.	Thick- ness, ft.
Bellman ('45)	15-30-1E	80	12,287	339,018	2	Simpson	3,798	5
Bellman West ('57)	16-30-1E	80	1,381	19,874	2	Simpson	3,801	9
Bitter Creek ('53)	1-35-1E	200	46,219	292,917	10	"Stalnaker"	2,353	13
						Mississippian	3,500	15
Caldwell ('29)	17-35-3W	160	17,816	1,675,188	4	Mississippian	4,408	8
						Simpson	4,765	19
Caldwell Northwest ('52)	8-35-3W	40	927	61,790	1	Simpson	4,835	20
Churchill ('26)	25-31-2E	1,140	43,211	19,956,519	23	"Stalnaker"	1,820	25
						"Layton"	1,874	1
Conway Springs ('59)	5-31-3W	100	6,623	6,623	4	Arbuckle	2,632	24
Corbin ('48)	23-34-2W		no report	37,286		Simpson	4,370	6
Crowe ('58)	10-35-1W	40	1,335	2,376	1	Simpson	4,475	
Fall Creek ('50)	3-35-3W	640	144,660	2,482,501	24	"Layton"	3,245	5
Gerberding ('54)	6-34-4W	80	13,874	96,351	3	Simpson	4,746	50
Guelph ('51)	6-35-1E	500	72,528	1,695,306	10	Simpson	4,710	5
			120,164			Lans.-K.C.	3,028	45
			8,435		13	Simpson	3,854	10
Horsch ('58)	4-31-1W	40	4,818	8,240	1	Arbuckle	3,969	
Interchange ('59)	19-32-1E	40	6,950	6,950	1	Mississippian	3,664	8
Kerley ('59)	1-30-1W	40	573	573	1	Simpson	4,053	7
Kerschen ('55)	17-31-3W	580	126,377	522,709	18	Simpson	3,828	6
						Lans.-K.C.	3,267	
						Mississippian	3,912	10
Latta ('27)	9-30-2W	540	56,163	1,572,479	11	Lans.-K.C.	3,042	14
						Mississippian	3,656	12

		THOMAS COUNTY							
		30-8-32W	no runs	11,867	1	Cherokee	4,595	31	
Kindig ('56)		12-6-35W	40	390	1	Tarkio	3,728	4	27
Lanisia ('59)		19-9-32W	40	1,457	1	Marmaton	4,414		
Mingo ('52)			40			Mississippian	4,680		
Total Thomas County			120	1,847	3				
TREGO COUNTY									
Adair ('53)		21-12-21W	40	2,166	1	Marmaton	3,879	5	37
Adair Southwest ('56)		28-12-21W	40	1,611	1	Marmaton	3,856	10	
Bin ('58)		31-11-22W	40	1,691	1	Lansing	3,776	6	
Cotton ('45)		15-12-21W	40	2,831	1	Arbuckle	3,958	34	30
Cotton East '47)		14-12-21W	40	1,460	1	Arbuckle	3,942	6	40
Coulson ('54)		11-15-22W		no report		Cherokee	4,175		
Diebolt* ('53)		33-10-23W	640	67,629	14	Lans.-K.C.	3,779	6	35
Egger ('58)		12-13-21W	100	29,593	4	Lans.-K.C.	3,450	6	
Ellis* ('42)		31-12-20W	1,200	52,763	14	Arbuckle	3,825	3	
						Lans.-K.C.	3,632	4	
Ellis Northwest ('44)		26-12-21W	160	7,613	3	Arb.-Reagan	3,832	8	
Ellis Southwest ('59)		2-13-21W	40	2,636	1	Arbuckle	3,925	2	
Groff ('52)		26-14-21W	1,200	89,006	22	Arbuckle	3,797	8	40.6
						Lans.-K.C.	3,493	10	36
						Marmaton	3,755	17	
Homburg ('55)		11-13-21W	80	4,193		Penn. cong.	3,822	10	
Kutina ('53)		20-15-21W	200	42,149	2	Marmaton	3,800	10	
Newcomer ('56)		12-12-23W	660	91,311	5	Mississippian	4,151		
Newcomer Northwest ('56)		2-12-23W	460	100,539	20	Lans.-K.C.	3,733	3	
Nicholson* ('45)		30-11-20W	40	2,935	12	Lans.-K.C.	3,763	5	
Ogallah ('51)		26-12-22W	3,800	654,774	1	Arbuckle	3,842	12	34
				5,032,079	78	Arbuckle	3,961	24	

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abn., wells 1959	Producing zone			
			during 1959	to end, 1959		Name	Depth, ft.	Thick- ness, ft.	Aver. grav.
Ogallah Northwest ('57)	21-12-22W	40	3,812	14,258	1	Lans.-K.C.	3,724	3	
Rhoden ('56)	24-12-23W	180	17,312	94,137	4	Lans.-K.C.	3,764	6	
Ridgeway ('52)	26-12-21W	400	15,446	291,508	8	Lans.-K.C.	3,693	13	36
						Arbuckle	3,896		
Riga Northeast ('57)	9-13-21W	40	3,177	22,687	1	Lansing	3,503	28	
			10,344		1	Arbuckle	3,915	2	
Spaulding South ('54)	1-11-21W	40	55,563	99,759**	4	Lans.-K.C.	3,538	4	
Sunny Slope ('52)	21-14-21W	640	39,573	432,967	11	Marmaton	3,848	14	39
Sunny Slope Northwest ('58)	21-14-21W	40	1,659	2,052	1	Penn. congl.	3,944	5	
Trico* ('51)	30-10-20W	980	326,243	1,288,274	45	Lans.-K.C.	3,573	7	
					1	Arbuckle	3,688	7	
Voda ('57)	28-11-24W	120	24,356	46,735	3	Lans.-K.C.	4,008	4	
Wakeney ('34)	14-11-23W	640	17,292	922,228	5	Lans.-K.C.	3,619	8	
Wakeney East ('49)	24-11-23W	40	9,447	24,619	1	Lans.-K.C.	3,624	4	
Walz ('50)	12-11-21W	860	69,339	718,243	17	Lans.-K.C.	3,428	9	
						Arbuckle	3,666	11	
Walz Northwest ('57)	12-11-21W	160	32,645	77,076	4	Arbuckle	3,693	2	
Pools or fields abandoned				96,709					
Total Trego County		12,960	1,781,108	12,624,569**	287				
					2				
WABAUNSEE COUNTY									
Ashburn ('58)	29-14-10E	60	9,397	15,314	2	Viola	3,255	7	
Davis Ranch ('49)	33-13-10E	980	193,200	2,448,842	19	Lans.-K.C.	1,850	4	
						"Hunton"	2,929	15	29.3
						Viola	3,201		

Ge-See* ('59)	27-11-8E	no report	none	Cherokee	1,749	12
Mill Creek ('50)	2-13-10E	160	18,927	Viola	2,923	4
Newbury ('50)	11-11-11E	240	18,343	Viola	2,901	4
Wheat ('51)	10-15-11E	no report	18,690	Simpson	3,230	4
Wilmington ('59)	29-14-12E	140	4,540	Viola	2,996	6
Woodbury ('51)	11-15-10E	100	11,752	Simpson	3,099	3
			105,422	Viola	3,328	5
Total Wabaunsee County		1,680	256,159			36
			3,159,300			
WICHITA COUNTY						
Carwood ('57)	16-17-37W	40	217	Marmaton	4,528	4
WILSON COUNTY						
Altoona ('03)	10-29-16E					107
a		320	1,238	"Squirrel"	650	
b		280	2,870	"Bartlesville"	900	
c		300	4,697			
d		40	887			
e		480	32,919			
f		20	260			
g		20	192			
h		60	3,690			
i		20	253			
j		60	433			
Altoona East	29-17E					
Benedict	28-15E	480	6,639	"Bartlesville"	900	24
a		40	713	"Bartlesville"	1,000	15
b		40	793			
c		280	6,619			

TABLE 31.—Oil production in Kansas during 1959, continued

Field name and year of discovery	Discovery well location	Area, acres	Oil production, bbl.		Pro- ducing abds., wells 1959	Producing zone	
			during 1959	to end, 1959		Name	Depth, Thick- ness, ft. Aver. grav.
Buffalo* ('24)	27-16E				163	4	"Bartlesville"
a		40	71				Cherokee
b		320	5,497				1,025
c		660	36,031				1,150
d		520	5,512				
e		40	493				
Coyville West	27-13E	60	1,609		6		Cherokee
Fredonia ('90)	29-15E				29	1	"Burgess"
a		20	703				1,050
b		40	249				
c		320	5,704				
d		40	264				
Humboldt-Chanute*	28-17E	120	1,658		11		"Bartlesville"
Neodesha*	30-16E				293	16	"Bartlesville"
a		40	376				850
b		40	1,036				950
c		320	28,113				
d		40	383				
e		160	149				
f		460	1,614				
g		620	1,503				
h		2,560	32,970				
i		20	329				
j		120	13,461				
k		20	329				

Neodesha East	30-17E	220	37	4	Cherokee	
"Stryker"	28-13E		no report			
Vilas ('05)	27-17E	420	2,207	15	"Bartlesville"	1,000
a		20	59			
b		240	4,274	12+		
Miscellaneous						
Total Wilson County		9,920	206,834	679	23	
						6,550,001 recorded
WOODSON COUNTY						
Annabelle ('56)	32-25-15E		no report			572
Big Sandy ('23)	23-26-14E	1,240	73,223	59	"Squirrel"	1,173
Buffalo* ('24)	26-16E			90	"Bartlesville"	1,230
a		40	227		"Bartlesville"	950
b		60	1,377		Cherokee	1,150
c		400	38,497			
Evans ('38)	21-23-15E	80	2,568	4	Mississippi	1,540
"Gordon" ('54)	13-24-15E	540	18,907	18	"Squirrel"	1,080
Humboldt-Chanute*	25-17E			43	"Bartlesville"	900
a		20	80			
b		1,280	10,910			
McWherter ('55)	35-26-13E	20	42	1	Mississippi	1,417
Neosho Falls-Leroy* ('05)	35-22-16E			93	"Squirrel"	965
a		480	23,311		Mississippi	1,200
b		1,200	11,838			
c		680	7,343			
Perry-Halligan	26-17E	2,280	21,369	140		
Piqua ('38)	22-24-17E			5	Mississippi	1,190
a		260	1,731			
b		40	228			

TABLE 31.—Oil production in Kansas during 1959, concluded

Field name and year of discovery	Discovery well location	Oil production. bbl.		Pro- ducing wells 1959	Name	Producing zone	
		Area, acres	during 1959 to end, 1959			Depth, ft.	Thick- ness, ft. grav.
Quincy* ('32)	14-25-13E	2,160	162,060	94	"Bartlesville"	1,500	
a		40	160				
Rose East ('54)	16-26-16E	760	35,029	36	"Bartlesville"	1,109	15
Silver City ('46)	19-23-15E	640	13,241	18			
Stange		20	79	2	Cherokee		
Steele ('52)	20-23-15E	20	819	1	Mississippian	1,525	17
Stephenson			no report				
Toronto*			no report				
Vernon	23-16E	1,420	44,491	87	"Peru"	1,000	
a		480	2,603		"Bartlesville"	1,700	
b		160	12,587		"Squirrel"	1,068	6
c		760	40,528		Mississippian	1,420	
Virgil North* ('20)	22-23-13E			36	"Bartlesville"	1,585	
Winterscheid*	23-14E	10,240	268,106	342	Mississippian	1,840	
a		40	101	5	"Bartlesville"	1,630	15
b		40	2,087		Mississippian	1,750	
c				8			
Wissman ('36)	3-24-15E	360	2,194		Mississippian	1,520	
a		160	2,210				
b							

Yates Center	28-25-15E				
a		740	14,354	32	Mississippian
b		300	775		
Miscellaneous		160	2,271	8+	
Total Woodson County		27,120	815,355	1,117	17
			11,090,469	recorded	

* Field extends into adjacent county or counties.

** Corrected cumulative.

TABLE 32.—Gas production in Kansas during 1959

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth. ft.
ALLEN COUNTY							
Humboldt-Chanute* (Misc.)	26-18E	1,200	109,967†		57†	"Squirrel" "Bartlesville"	740 850
ANDERSON COUNTY							
No longer productive; used for gas storage only (Capacity 31,014,497)							
BARBER COUNTY							
Aetna ('35)‡	13-34-15W	640	410,111	3,588,828†	6	Mississippian Viola	4,850 5,215
Aetna Northeast ('56)	9-34-14W		Included with Aetna			Mississippian	4,693
Blunk ('56)‡	30-34-13W	160	614,987	1,206,310	4	Mississippian	4,727
Blunk South ('56)	1-35-14W	40	114,820	223,255	1	Mississippian	4,821
Boggs Southwest ('55)	30-33-12W	3,700	4,182,862	32,295,899	30	Mississippian	4,456
			(Driftwood)‡				
Canema ('56)	24-33-11W		No report	none		Mississippian	4,553
Cedar ('57)	25-33-10W		No report	none		Mississippian	4,543
Clara ('44)	2-30-14W		No report	803,532		Marmaton Simpson Viola	4,381 4,435 4,509
						Arbuckle	4,540
Cottonwood Creek ('48)	21-30-14W		No report	none		Simpson	4,582
Deerhead ('42)	26-32-15W		No report	1,896,083		Viola	4,931
DeGear ('48)	2-33-15W		No report	140,442		Mississippian Viola	4,902 5,176
Donald ('46)	33-31-15W	400	1,571,156		9	"Miss. lime"	4,697
Elsa ('56)‡	27-32-14W	200	653,442	1,840,638	4	Mississippian	4,662
Elwood ('56)‡	34-34-13W	500	1,576,903	4,209,572	8	"Elgin"	3,662
Farley ('56)	32-34-14W	300	212,627	387,417	5	Mississippian	4,742
Hardtner ('54)	31-34-12W	5,600	8,437,506‡	50,645,251	46	Cherokee	4,791
			864,445		9	Mississippian	4,782
ILS ('56)	9-31-11W		No report	none		Simpson	4,865
ILS Southwest ('59)	17-31-11W		No report	none		Douglas	3,766
Lake City ('45)	7-31-13W		Included with Skinner			Viola	4,435
Little Bear Creek ('54)	12-32-14W	40	130,313	1,284,568	1	"Douglas sand" Viola	3,808 4,670
McGuire-Goemann ('56)‡	24-32-11W	860	1,609,541	5,555,048	12	Mississippian	4,403
McReynolds (revived) ('59)	19-31-10W		No report	none		Mississippian	4,530
Medicine Lodge-Boggs (27)	13-33-13W	16,000	2,891,443	250,544,918	67	"Douglas sand"	3,812
			94,746	"Bartholow"‡	2	Mississippian	4,480
			3,533,416	"Boggs"‡	12	Simpson	4,860
			4,334,321	"Medicine Lodge West"‡	30		
Medicine Lodge North (54)	25-32-13W	600	29,540	747,883	7	Mississippian	4,480
			382,756		5		
			("Forsythe")				
Medicine Lodge Southwest ('54)‡	6-34-13-W	100	128,232	2,037,551	2	Mississippian	4,889
Nippawalla ('51)	13-33-12W	120	54,144		3	"Douglas sand" Mississippian	3,659 4,541
Nurse ('53)	23-31-13W	80	42,555	194,805	2	"Douglas sand"	3,599
Palmer ('58)	30-32-13W		No report	none		Mississippian	4,530
Palmer West ('59)	25-32-14W		No report	none		Mississippian	4,552
Rhodes ('54)	4-33-11W	8,000	6,839,171	43,028,991	25	"Douglas sand"	3,548
			4,938,657	"Rhodes N"‡	15	Mississippian	4,551
Rhodes Northeast ('56)‡	2-33-11W	1,400	2,529,285	4,585,655	15	Mississippian	4,500
Rhodes South ('57)‡	6-34-11W	900	1,617,861	1,617,861	11	Mississippian	4,564
Roundup South ('53)	33-33-11W	160	453,987		4	Mississippian	4,457
Sharon ('55)	13-32-10W		No report			Mississippian	4,355
Sharon Northwest ('56)‡	11-32-10W	2,100	3,142,106	7,506,903	19	Mississippian	4,347
Skinner ('43)	29-31-14W	3,000	241,415	28,601,840	8	"Douglas sand" Lans.-K.C.	4,023 4,109
						Marmaton	4,294
						Simpson	4,422
						Viola	4,630
Stumph ('52)	7-32-14W	700	1,689,169	3,085,911	7	Marmaton	4,718
			50,609	"Stumph East"	1		

TABLE 32.—Gas production in Kansas during 1959, continued

Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth, ft.
Traffas ('55)	6-33-10W		No report	none		Mississippian	4,590
Turkey Creek	20-30-15W	40	300		1		
			Abandoned during 1959	none			
Wells ('58)	18-34-15W		No report	none		Marmaton	4,694
Whelan ('34)	32-31-11W	160	1,696,742		13	Douglas	3,598
						"Chat"	4,355
Whelan East ('54)	21-31-11W		No report			"Douglas sand"	3,746
Wolgamott ('57)	16-35-14W	40	11,911	11,911	1	Cherokee	4,865
Pools or fields abandoned				153,681			
Total Barber County		47,280	55,081,079	451,985,074	385		
BARTON COUNTY							
Adolph ('47)	16-20-15W	40	157,072		1	Arbuckle	3,734
Behrens ('44)	6-20-15W	140	209,349		5		
Behrens Northeast ('55)	29-19-15W		No report	none		Arbuckle	3,639
Chase-Silica ('36)	6-19-9W		Included with Rice County			Arbuckle	
Converse ('53)	20-20-15W	60	471,271		2	Arbuckle	3,783
"Dundee" ('45)	29-20-14W	40	10,032		1	Arbuckle	3,507
Eberhardt ('35)	14-19-11W			398,567			
Heizer Southwest ('52)	21-19-14W	60	62,814	970,467	2	Penn. congl.	3,496
Krier ('44)	30-16-11W	80	25,073	857,623	3		
			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	
						Reagan	3,507
Pawnee Rock* ('36)	13-20-16W		No report				
Rick* ('41)	11-19-11W		No report	403,810		Arbuckle	3,355
Unruh ('45)	24-20-15W	120	53,866	14,694,183	3	Arbuckle	3,641
Pools or fields abandoned				2,917,696			
Miscellaneous			29,228		1		
Total Barton County		540	1,018,705	24,318,652	18		
BOURBON COUNTY							
Miscellaneous		20	1,560		1		
BUTLER COUNTY							
Andover South*	31-27-3E		No report			"Stalnaker"	2,006
CHASE COUNTY							
Altamus	26-18-8E		No report				
Davis ('29)	18-8E		No report			L. Permian	350-400
Elmdale	19-7E	300	10,204		7	L. Permian	500
						Wabaunsee	800
Hymer	18-7E		No report				
Lipps	32-18-7E		Included with Elmdale				
Neva	19-7E		No report				
Miscellaneous		700	19,481		31		
Total Chase County		1,000	29,685		38		
CHAUTAUQUA COUNTY							
Hewins Northwest ('56)	27-34-9E		No report			Mississippian	2,072
Miscellaneous		300	171,540		10		
CHEROKEE COUNTY							
Miscellaneous		40	1,720		1		
CLARK COUNTY							
Ashland ('51)	35-32-23W		No report	1,795,172			
Cavalry Creek ('55)	3-31-21W	100	18,813	290,367	1	Mississippian	5,195
Clark Creek ('59)	8-35-22W		No report	none		Morrowan	5,630
Harper Ranch ('53)	9-34-21W	5,000	4,654,544	10,314,818	12	Morrowan	5,437
Harper Ranch North ('54)	22-33-21W		No report	none		Morrowan	5,318
McKinney* ('50)†	2-34-26W	7,500	1,953,004	5,751,216	18	Mississippian	5,762
Morrison Northeast ('54)	10-32-21W	1,200	271,479	1,622,116	3	Morrowan	5,193
Sitka ('59)	13-33-22W		No report	none		Morrowan	5,266
Snake Creek ('52)	21-34-21W		No report	none		Morrowan	5,452

TABLE 32.—Gas production in Kansas during 1959, continued

Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth, ft.
Snake Creek Northeast ('59)	13-24-21W	No report	none			Morrowan	5,444
Snake Creek Southwest ('59)	30-34-21W	No report	none			Morrowan	5,526
Tuttle West ('57)	10-35-21W	No report	none			Morrowan	5,625
Total Clark County		13,800	6,897,840	19,773,690	34		
COFFEY COUNTY							
Crandall ('53)	6-23-16E	No report				Mississippian	1,022
"Gridley"	22-14E	No report					
Miscellaneous		60	1,239		3		
COMANCHE COUNTY							
Beals ('55)	5-34-17W	No report	none			Lans.-K.C.	4,393
Perry Ranch* ('58)	12-32-16W	No report	none			Simpson	5,670
Robbins Ranch ('53)	23-31-16W	40	1,507	538,864	1	Mississippian	4,785
Tuttle ('57)	6-35-20W	No report	none			Mississippian	4,915
						Morrowan	5,538
COWLEY COUNTY							
Biddle	32-5E	40	35,062		1	Admire	
Brown West ('51)	14-31-7E	No report				Douglas	1,568
Burden ('26)	31-31-6E	No report				"Layton"	2,220
						"Bartlesville"	2,900
Denton	35-4E	80	69,105		1	Douglas	
Estes	32-6E	360	236,663		8	Douglas	1,568
Frog Hollow ('37)	32-5E	No report				"Bartlesville"	3,000
Gibson ('41)	34-3E	500	120,336		6	"Bartlesville"	3,300
						"Severy sand"	
Gibson East ('59)	27-34-3E	No report	none			"Stalnaker"	2,169
Graham	9-33-3E	800	605,227		20	"Bartlesville"	
Mansur ('49)	31-7E	40	55,547		1	"Layton"	2,170
New Salem ('49)	21-31-5E	No report					
Peck ('58)	9-35-4E	40	98,698	98,698	1	"Bartlesville"	3,206
Raukman ('56)	18-34-3E	No report				"Bartlesville"	3,358
School Creek North ('53)	10-32-7E	No report				"Layton"	2,114
						"Cleveland"	2,443
Tisdale	32-5E	200	97,217		2		
Trees ('34)	30-4E	No report				"Bartlesville"	2,975
Turner West		400	2,460		8		
Waldschmidt ('58)	17-34-6E	No report				"Stalnaker"	1,821
Werner ('56)	31-32-6E	No report				Kansas City	2,460
Wilmot-Floral	31-5E	No report				"Cattleman"	2,880
Winfield	32-4E	No report				"Peacock"	1,400
Total Cowley County		2,460	1,320,315		48		
CRAWFORD COUNTY							
McCune	30-22E	No report				"Bartlesville"	300
St. Paul-Walnut (Misc.)	29-21E	800	38,927†		39†	"Bartlesville"	
EDWARDS COUNTY							
Belpre ('42)	8-25-16W	200	34,145	8,262,779	2	Lans.-K.C.	3,800
						Mississippian	4,278
Bradbridge* ('48)	6-24-15W	No report	none			Lans.-K.C.	3,686
						Arbuckle	4,020
Bradbridge Southwest ('59)	11-24-16W	No report	none			Arbuckle	4,120
Edstaff ('55)	12-25-16W	120	74,413		3	Penn. congl.	4,202
Edstaff Northwest ('57)	35-24-16W	Combined with Belpre				Mississippian	4,286
Embry ('55)	23-24-16W	1,400	1,378,385	5,101,181	16	Mississippian	4,231
						"Kinderhook"	4,292
Fatzer (revived) ('59)	14-26-17W	No report	none			Mississippian	4,530
Kirk ('55)	26-26-16W	No report	none			Cherokee	4,392
McCarty ('54)	31-25-17W	80	7,606	312,798	1	Penn. congl.	4,528
McCarty Northeast ('30)	22-25-17W	No report	none			Penn. congl.	4,452
McClanahan ('58)	2-26-18W	40	54,429	54,429	1	Penn. congl.	4,612
Trousdale Northeast ('58)	15-26-16W	No report				"Kinderhook"	4,392
Trousdale South ('56)	33-26-16W	No report	47,864			Cherokee	4,472
		Includes "Trousdale"				"Kinderhook"	4,525

TABLE 32.—Gas production in Kansas during 1959, continued

Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth, ft.
Wil* ('57)	26-25-16W	80	132,820†	132,820	2	"Kinderhook"	4,324
Wokaty ('54)	25-25-17W		No report	79,504		Penn. congl.	4,390
Total Edwards County		1,920	1,681,798	14,065,788	25		
ELK COUNTY							
Adams ('56)	29-29-13E		No report			"Burgess"	1,580
Bush-Denton ('20)	4-30-9E		No report			Kansas City	660
Longton ('02)			No report			Kansas City	
Schrader ('28)	31-8E	120	14,015		3		
Miscellaneous		400	159,752		13		
Total Elk County		520	173,767		16		
ELLSWORTH COUNTY							
Stoltenberg ('47)	18-17-9W		No report	443,891		Shawnee	2,728
FINNEY COUNTY							
Hugoton Gas Area* ('32)	16-25-34W	410,000	44,291,434	376,934,253	594	Chase Group	2,200
Nunn ('38)	27-21-34W			146,075			
Total Finney County		410,000	44,291,434	377,080,328	594		
FORD COUNTY							
Helmers ('53)	25-28-21W		Combined with Pleasant Valley			Mississippian	5,024
Pleasant Valley ('38)	34-27-21W	1,000	310,929		4	Mississippian	4,954
GRAHAM COUNTY							
Law ('51)	34-9-23W		No report	12,656			
GRANT COUNTY							
Hattie ('59)	7-27-37W		Now called Panama Gas Area			Council Grove	2,716
Hugoton Gas Area* ('30)†	12-29-38W	380,000	90,869,682	1,020,941,851	578	Chase Group	2,200
Panoma Gas Area* ('56)	35-31-34W		No report	none		Council Grove	2,710
Panoma North ('58)	33-29-37W		Now called Panama Gas Area			Council Grove	2,740
Panoma Northeast ('59)	13-30-37W		Now called Panama Gas Area			Council Grove	2,890
Ulysses ('59)	3-29-37W		Now called Panama Gas Area			Council Grove	2,683
HAMILTON COUNTY							
Bradshaw ('57)	36-22-41W		No report	none		Chase Group	2,546
Hugoton Gas Area ('46)	12-26-39W	35,500	4,254,341	34,785,760	38	Chase Group	2,200
Medway ('59)	16-24-41W		No report	none		Winfield	2,305
Wedel ('58)	1-22-41W		No report	none		Winfield	2,746
HARPER COUNTY							
Crystal Springs ('59)	18-32-7W		No report	none		Mississippian	4,420
Harper ('58)	11-32-7W	400	557,358	643,169	3	Viola-Simpson	4,714
Hibbard ('57)	23-34-9W	100	36,101	66,953	1	Mississippian	4,586
Runnymede ('53)	23-31-6W		No report	none		Simpson	4,648
Sharon Northeast ('57)	5-32-9W	300	263,431	622,196	5	Mississippian	4,330
Spivey-Grabs* ('49)	13-31-9W	7,000	1,607,716	12,654,769	37	Mississippian	4,400
			2,374,539†				
Total Harper County		7,800	4,839,145	13,987,087	46		
HARVEY COUNTY							
Burrton* ('30)	23-23-4W	200	193,831		2	Mississippian	3,298
			Includes Reno County				
Burrton North ('56)	32-22-3W		Included with Burrton			Mississippian	3,280
Burrton Northeast ('42)	3-23-3W	600	126,756		6	Mississippian	3,226
Graber* ('55)	22-1W		No report	141,997		Mississippian	2,958
Hollow-Nickell	22-3W	100	51,948		1	"Chat"	
Sperling ('35)	23-22-2W		No report	7,513,363		Mississippian	2,955
Sperling South	22-2W		No report	none		Mississippian	2,954
Wall ('51)	25-22-3W		No report	none		Mississippian	3,150
Total Harvey County		900	372,727	9,748,727	9		

TABLE 32.—Gas production in Kansas during 1959, continued

Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth, ft.
HASKELL COUNTY							
Eubank ('58)	28-28-34W		No report	none		Marmaton	4,699
Hugoton Gas Area* ('31)†	29-30-34W	282,000	28,579,217	366,877,841	434	Chase Group	2,200
Koenig ('58)	12-29-34W	160	123,430	123,430	1	Morrowan	5,294
Total Haskell County		282,160	28,702,647	367,001,271	435		
JEFFERSON COUNTY							
McLouth			No longer productive; used for gas storage only (Capacity 12,913,757)				
JOHNSON COUNTY							
Craig			No longer productive; used for gas storage only (Capacity 6,075,820)				
Miscellaneous		300	57,297		12		
KEARNY COUNTY							
Hattie Northeast ('59)	27-26-37W		Combined with Panoma Gas Area			Council Grove	2,712
Hugoton Gas Area* ('37)†	32-25-35W	425,000	69,576,597	726,059,436	628	Chase Group	2,200
Panoma Gas Area* ('56)	12-31-38W		No report	none		Council Grove	2,843
KINGMAN COUNTY							
Basil ('53)	16-29-7W	200	274,199	873,673	4	Mississippian	4,150
Broadway ('48)	21-28-5W	400	153,811	3,152,256	8	Mississippian	3,833
Broadway West ('54)	19-28-5W	200	704,853	704,853	4	Mississippian	3,884
Cunningham* ('31)	7-28-11W		Included with Pratt County			Permian	1,993
						Wabaunsee	2,969
						Viola	4,278
						Arbuckle	4,094
Dale ('59)	35-28-6W		No report	none		Mississippian	3,928
Dewey ('50)	9-28-5W	1,000	164,517	3,554,097	5	Mississippian	3,801
Dresden ('51)	13-27-10W		No report	3,870			
Gilchrist ('55)	15-30-7W		No report	none		Mississippian	4,084
Goetz ('56)	29-29-9W	400	108,273	851,909	2	Mississippian	4,156
			144,779†		2	Viola	4,408
Moorhouse ('57)	20-28-5W		No report	none		Mississippian	3,852
Settle ('56)	18-29-7W	40	33,737	167,486	1	Mississippian	4,110
Spivey-Grabs* ('49)	13-31-9W	7,500	10,246,479†	39,297,609	125	Lans.-K.C.	3,876
			3,000,000†	(oil wells)		Mississippian	4,205
Trenton ('55)	27-29-7W	1,200	521,133	1,031,164	19	Mississippian	4,117
Total Kingman County		10,940	15,351,781	50,775,962	170		
KIOWA COUNTY							
Alford ('44)	14-30-19W		No report			Spergen	5,040
Glick ('57)	31-30-16W		No report	none		Mississippian	4,880
Greensburg ('56)	35-27-18W		No report	3,384		"Kinderhook"	4,742
Greensburg Northeast ('56)	17-27-17W	40	34,576	40,127	1	Mississippian	4,675
Hardy ('56)	23-28-18W	160	85,352	155,312	2	Mississippian	4,804
Haviland ('55)	17-28-16W	80	47,816	219,042	1	"Kinderhook"	4,761
Johannsen ('54)	13-28-19W		No report	46,214		Mississippian	4,864
Joy Station ('57)	20-28-19W	40	39,364	39,364	1	Mississippian	4,920
Kane ('56)	12-30-18W		No report	none		Mississippian	4,908
Nichols ('55)	20-29-18W	4,000	253,374	8,853,479	13	Mississippian	4,997
			1,980,903‡		8		
Nichols South	8-30-18W		No report	none		Mississippian	4,994
Nichols Southwest ('57)	5-30-18W		Combined with Nichols			Mississippian	4,977
Wellsford ('55)	15-28-16W	400	176,265	1,002,597	2	Marmaton	4,680
						Mississippian	4,729
Total Kiowa County		4,720	2,617,650	10,441,040	28		
LABETTE COUNTY							
Coffeyville-Cherryvale*	32-17E		No report				
Valeda	34-18E		No report				
Miscellaneous		600	68,760		39†		

TABLE 32.—Gas production in Kansas during 1959, continued

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth, ft.
LEAVENWORTH COUNTY							
Linwood ('20)	12-21E		No report			"Squirrel"	600
Roberts-Maywood*	11-22E	400	8,910		7	Knobtown	400
LINN COUNTY							
LaCygne-Cadmus (Misc.)	20-24E	160	356		6		
McPHERSON COUNTY							
Coons ('40)	13-19-1W		No report			"Chat"	2,897
Elyria ('58)	22-20-3W	200	79,600	79,600	3	Mississippian	3,068
Graber North ('51)	4-21-1W		No report	none		Mississippian	2,955
McPherson ('26)	29-18-2W	100	56,395		1	Lans.-K.C.	2,340
						"Chat"	2,967
						Viola	3,140
Ritz-Canton ('29)	12-20-2W	1,500	294,813		9	"Chat"	2,935
Total McPherson County		1,800	430,808		13		
MARION COUNTY							
Hillsboro East ('59)	17-19-3E	160	91,900	91,900	2	Mississippian	2,440
Lehigh North ('53)	23-19-1E	40	9,706		1	Mississippian	2,770
Lost Springs ('26)	22-17-4E	1,000	407,237		10	Mississippian	2,350
Total Marion County		1,200	508,843		13		
MEADE COUNTY							
Adams Ranch ('45)	8-35-30W	4,200	1,138,112	2,308,808	15	Toronto	4,402
						Morrowan	5,708
						Mississippian	5,850
Angell ('56)	30-32-29W	100	60,477	60,477	1	Morrowan	5,608
Baragree ('59)	25-34-28W		No report	none		Council Grove	3,066
Bond ('54)	32-33-30W	360	71,623	512,129	2	Mississippian	5,860
Borchers ('59)	21-33-28W		No report	none		Morrowan	5,719
Borchers North ('59)	5-33-28W		No report	none		Marmaton	5,082
						Morrowan	5,544
Borchers Northwest ('59)	1-33-29W		No report	none		Morrowan	5,612
Bruno Northeast ('53)	16-33-30W		No report	none		Morrowan	5,721
Cimarron Bend ('59)	1-35-29W		No report	none		Mississippian	6,076
Fincham ('56)	14-35-27W	600	258,307	892,818	2	Mississippian	6,275
Hockett ('57)	8-31-29W	900	304,469	347,318	5	Morrowan	5,390
						Mississippian	5,430
Horace ('56)	9-34-29W		No report	none		Morrowan	5,815
Horace South ('59)	26-34-29W		No report	none		Council Grove	3,228
						Toronto	4,390
Kismet East ('53)	30-33-30W	1,000	101,990	958,047	2	Morrowan	5,645
McKinney* ('50)†	2-34-26W	12,000	4,808,860	25,399,668	39	Mississippian	5,762
Mohler ('57)	35-33-29W	1,600	2,530,731	2,643,462	13	Morrowan	5,769
Mohler Northeast ('58)	36-33-29W	900	165,721	165,721	7	Morrowan	5,690
Novinger East ('59)	36-33-30W		No report	none		Morrowan	5,793
Novinger Northwest ('53)	15-33-30W	360	137,815	588,411	4	Morrowan	5,718
			Includes Novinger				
Plains ('56)	17-32-30W	100	243,672	243,672	1	Morrowan	5,611
						Mississippian	5,692
Sanders ('56)	13-32-29W	100	27,685	284,283	1	Morrowan	5,533
						Mississippian	5,550
Singley ('55)	20-33-29W	4,000	1,272,286	5,707,321	12	Morrowan	5,803
Stevens ('52)	32-32-30W	3,400	506,725	11,432,085	7	Morrowan	5,560
			1,109,689	"Leslie"	9	Mississippian	5,713
Stevens West ('57)	6-33-30W		No report	none		Morrowan	5,596
Thiessen ('59)	8-33-27W		No report	none		Morrowan	5,690
Total Meade County		29,620	12,738,162	51,544,220	120		
MIAMI COUNTY							
Louisburg (Misc.)	17-25E	100	1,800†		2†		
MONTGOMERY COUNTY							
Coffeyville-Cherryvale* ('02)	33-17E		No report			"Bartlesville"	
Neodesha South			No report				
Miscellaneous		1,600	347,434		50		

TABLE 32.—Gas production in Kansas during 1959, continued

Pool or field name and year of discovery	Location of disc- covery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth, ft.
MORRIS COUNTY							
Veal ('55)	30-17-7E	300	192,276		9	Ireland	1,234
Miscellaneous		60	22,022		2		
Total Morris County		360	214,298		11		
MORTON COUNTY							
Berryman ('59)	21-33-41W		No report	none		Wabaunsee	2,892
Boehm ('51)	14-33-42W	1,800	241,195	8,361,301	4	Morrowan	4,872
Elkhart ('55)	11-35-43W	640	35,845	384,489	1	Morrowan	4,558
Elkhart West ('57)			No report	284,477		Morrowan	4,299
Greenwood Gas Area ('51)†	14-33-42W	200,000	53,278,172	236,041,083	243	Wabaunsee	2,777
						Shawnee	3,069
						Lans.-K.C.	3,534
Hugoton Gas Area* ('30)‡	24-34-40W	114,000	25,908,358	317,599,712	305	Chase Group	2,200
Interstate ('54)	29-34-43W	640	10,065	24,974	1	Morrowan	4,210
Kinsler ('59)	33-31-40W		No report	none		Des Moinesan	4,336
						St. Louis	5,464
Patsy ('57)	16-31-41W		No report	none		Morrowan	5,362
Reyer ('57)	17-32-43W	1,800	5,994	5,994	3	Marmaton	3,993
Richfield ('48)	17-32-40W	6,000	42,980	25,121,751	2	Topeka	4,990
			4,372,973‡		9	Atokan-Morrowan	
Rolla ('59)	22-34-40W		No report	none		Lansing	4,249
Sparks*	34-30-42W		Included with Stanton County			Morrowan	
						(Keyes)	5,254
Taloga ('55)	34-34-42W	2,000		21,977,092		Morrowan	4,428
"C"			118,591‡		2	Cherokee	3,894
"F"			137,111‡		1		
"G"			113,697‡		1		
"Keyes"			1,287,086‡		5		
"Marmaton"			251,525		3		
Wilburton ('59)	32-34-41W		No report	none		Topeka	3,080
Total Morton County		326,880	85,803,592	609,800,873	579	Morrowan	4,808
NEOSHO COUNTY							
Earlton	28-18E		No report				
Miscellaneous		600	147,338‡		59‡		
PAWNEE COUNTY							
Benson ('45)	30-23-15W		No report			Arbuckle	4,048
Carpenter Southeast ('59)	31-23-16W		No report	none		Mississippian	4,210
Evers ('51)	32-21-16W		No report	850,468		Arbuckle	3,908
Evers South ('56)	12-22-16W		No report	none		Arbuckle	3,920
Garfield ('54)	35-22-17W	200	589,826	1,195,461	2	Penn. congl.	4,152
Hearn ('53)	35-23-15W	100	108,171		1	Lans.-K.C.	3,833
						Simpson	4,106
Hearn North ('55)	23-23-15W	100	5,110		1	Simpson	4,084
Jac ('58)	30-21-15W		No report	none		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*	35-19-16W		No report			Reagan	3,507
Ryan Southeast ('45)	12-20-16W	100	53,737		1	Arbuckle	
Shady ('45)	34-22-16W	100	311,751	4,304,347	2	Viola	3,920
						Arbuckle	4,063
Shady North ('55)	14-22-16W		No report	none		Arbuckle	4,043
Shady Southwest ('53)	3-23-16W	180	269,299		2	Arbuckle	4,094
Snowberger('57)	29-22-16W		No report	none		Penn. congl.	4,112
Sweeney ('53)	8-21-15W	3,500	1,406,355		13	Penn. congl.	3,727
						Arbuckle	3,792
Zook ('42)	16-23-16W		No report			Simpson	4,028
						Arbuckle	4,066
Total Pawnee County		4,280	2,744,249	40,546,071	22		

TABLE 32.—Gas production in Kansas during 1959, continued

Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth, ft.
PRATT COUNTY							
Carver-Robbins ('55)	21-27-15W	160	304,799		2	Penn. congl.	4,472
Chance ('46)	4-27-13W	240	27,528		3	Mississippian	4,509
Chitwood ('43)	23-28-12W		No report	10,089,598		Viola	4,340
Cullison ('56)	25-28-15W		No report	none		Mississippian	4,543
Cunningham ('31)	7-28-11W		No report			Permian	1,993
						Wabaunsee	2,969
						Viola	4,278
						Arbuckle	4,094
						Lans.-K.C.	
Includes Kingman County							
Frisbie Northeast ('54)	4-26-13W	100	14,782		1	Mississippian	
Hopewell ('58)	17-26-15W	100	124,923	124,923	1	Lans.-K.C.	3,887
Iuka-Carmi ('42)	29-26-12W	100	154,687	4,186,430	1	Viola	4,122
Sawyer ('57)	26-29-13W		258,772	258,772	2	Simpson	4,608
Shriver ('49)	27-29-14W		No report	104,191			
Stark ('41)	13-26-12W		No report			Viola	4,121
Tallock Southwest ('58)	30-26-15W	260	319,494	319,494	2	Congl. sand "Kinderhook"	4,376
Ward ('41)	11-26-12W		No report	none		Viola	4,129
White ('59)	35-27-15W		No report	none		Cherokee	4,471
Total Pratt County		960	1,204,985	21,777,560	12		
RENO COUNTY							
Burrton* ('30)	23-23-4W	Included with	Harvey County			Mississippian	3,298
Lerado ('37)	10-26-9W	2,700	4,649,947	11,717,226	39	Mississippian	3,925
						Viola	4,128
Plevna ('59)	15-24-9W		No report	none		Mississippian	3,765
Yoder ('35)	34-24-5W		No report			"Chat"	3,402
Zenith-Peace Creek* ('37)	23-24-11W	60	3,690		1	Viola	3,860
Total Reno County		2,760	4,653,637	11,960,480	40		
RICE COUNTY							
Bredfeldt ('48)	7-18-9W		No report	165,890		Arbuckle	3,226
Chase-Silica* ('36)	6-19-9W	160	101,863	1,937,148	3	Arbuckle	3,192
Includes Barton County							
Calf Creek ('57)	38-18-10W	40	32,377	62,698	1	Lans.-K.C.	3,006
Humphreys ('56)	3-21-8W	160	139,672	532,980	4	Penn. congl.	3,272
						Mississippian	3,278
Lyons ('88)	35-19-8W		No report	14,108,095		Simpson	3,290
						Arbuckle	3,277
Lyons Southwest ('55)	22-20-8W	40	31,529		1	Penn. congl.	3,251
Orth ('33)	27-18-10W		No report			Lans.-K.C.	2,906
Sterling ('51)	4-22-8W	40	31,899	154,640	1	Mississippian	3,385
Union ('50)	28-20-8W	400	252,406		4	Penn. congl.	3,275
Pools or fields abandoned				15,686,133			
Total Rice County		840	589,746	35,553,190	14		
RUSH COUNTY							
Lohrey ('56)	35-17-17W	160	1,496,605	2,519,716	4	Penn. congl.	3,563
Otis-Albert* ('30)	11-18-16W	4,000	398,854		22	Granite Wash	3,578
Includes Barton County							
Reichel ('53)	23-17-17W	400	430,474	2,725,322	5	Topeka	3,006
						Lans.-K.C.	3,330
Rothe ('55)	31-17-16W	60	56,261	56,261	1	Lans.-K.C.	3,446
Ryan*	35-19-16W	60	19,735		1	Reagan	3,507
Ryan East ('54)	36-19-16W		No report	none		Arbuckle	3,648
Total Rush County		4,680	2,401,929		33		
RUSSELL COUNTY							
Heim Northeast ('57)	14-14-12W		No report	none		Fort Riley	1,530
Russell ('46)	34-13-14W	60	76,552		1	Wabaunsee	
SCOTT COUNTY							
Keystone ('50)	25-18-32W		No report	45,122		Chase Group	

TABLE 32.—Gas production in Kansas during 1959, continued

Pool or field name and year of discovery	Location of discovery well	Area, acres	Gas production, M cu. ft.**			Producing zone	
			During 1959	To end of 1959	No. wells	Name	Depth, ft.
SEDGWICK COUNTY							
Bartholomew ('46)	30-27-4W	100	47,704		1	Kansas City "Miss. lime"	3,270
Gladys South ('56)	5-29-1E		No report	74,499		Mississippian	3,732
Schulte ('49)	7-28-1W		No report	1,287,655		Mississippian	3,194
Total Sedgwick County		100	47,704	2,246,005	1		3,349
SEWARD COUNTY							
Adamson ('58)	11-34-34W		No report	none		Chesteran	6,064
Blue Bell ('53)	33-34-31W		No report	none		Chesteran sand	6,318
Blue Bell Northwest ('54)	20-34-31W		No report	none		Mississippian	5,959
						Mississippian (Chesteran)	5,947
Hawks ('52)	18-35-31W		No report	none		Morrowan	5,927
Holt ('54)	28-32-34W	200	362,410	2,758,050	3	Topeka	3,820
Hugoton Gas Area* ('22)†	3-35-34W	246,000	20,149,271	240,511,464	345	Chase Group	2,200
Kismet Northwest ('53)	10-33-31W	200	151,268	170,042	1	Morrowan	5,584
Liberal-Light ('51)	11-35-32W	3,000	2,296,577	25,930,002	17	Morrowan	5,906
Liberal Southeast ('47)	15-35-33W	1,000	1,465,688	20,382,303	5	Penn. sand- stone	6,202
Massoni ('55)	5-33-31W	600	779,473	1,287,174	3	Toronto	4,270
						Morrowan	5,590
Plains West ('56)	16-32-31W	280	72,586	72,586	2	Morrowan	5,600
Salley ('58)	16-34-33W		No report	none		Toronto	4,311
Shuck ('55)	20-33-34W	400	177,015	566,847	2	Morrowan	5,987
Thirty-one ('53)	18-31-31W	400	80,221	843,028	1	Morrowan	5,448
Three Star ('58)	17-35-32W		No report	none		Lans.-K.C.	4,546
						Morrowan	5,866
						Chesteran	6,089
Wide Awake ('54)	4-35-34W	600	693,865	1,145,288	5	Toronto	4,410
						Mississippian	6,168
Total Seward County		252,680	26,228,374	293,666,784	384		
STAFFORD COUNTY							
Bradbridge* ('48)	6-24-15W		No report	none		Arbuckle	4,020
Childs ('59)	17-25-15W		No report	none		Mississippian	4,231
Farmington ('48)	27-24-15W	200	162,366		3	Mississippian	4,207
Farmington North ('56)	23-24-15W	100	220,584	220,584	1	"Kinderhook"	4,120
Farmington Northwest ('56)	30-24-15W		No report	none		"Kinderhook"	4,272
Farmington West ('52)	6-25-15W	200	224,466		2	"Penn. sand"	4,164
Gates ('50)	26-21-13W	300	69,478	570,607	1	Lans.-K.C.	3,473
Grunder ('58)	11-25-15W		No report	none		Mississippian	4,173
Grunder Southwest ('59)	15-25-15W		No report	none		Lansing	3,915
Haynes Southwest ('59)	27-25-15W		No report	none		Cherokee	4,254
O'Connor ('47)	16-24-15W		No report	none		Arbuckle	4,061
Rattlesnake	13-24-14W	80	13,959		2		
Rattlesnake East ('56)	7-24-13W	80	61,582		2	Mississippian	3,880
"Van Lieu" ('43)	20-24-13W	60	49,504	551,820	1	Arbuckle	4,069
Zenith-Peace Creek* ('37)	23-24-11W		No report			Viola	3,860
Pools or field abandoned				10,968,337			
Total Stafford County		1,020	801,939	13,590,727	12		
STANTON COUNTY							
Beauchamp East ('59)	24-30-41W		No report	none		Morrowan	5,018
Hugoton Gas Area* ('44)†	32-30-39W	168,500	17,656,063	152,420,147	232	Chase Group	2,200
Sparks* ('54)	34-30-42W	3,600	6,190,151†	18,739,655	20	Morrowan (Keyes)	5,254
			Includes Morton County portion			Morrowan	5,152
Sparks East ('57)	29-30-41W		No report	none		Morrowan	5,260
Sparks West ('58)	26-30-43W		No report	none		Morrowan sand	
Total Stanton County		172,100	23,846,214	171,159,802	252		

TABLE 32.—Gas production in Kansas during 1959, concluded

Pool or field name and year of discovery	Location of dis- covery well	Area, acres	Gas production, M cu. ft.**			Producing zone		
			During 1959	To end of 1959	No. wells	Name	Depth, ft.	
STEVENS COUNTY								
Hanke ('56)	6-35-36W		No report	none		Morrowan	6,267	
Hugoton Gas Area* ('27)†	31-33-37W	612,000	103,479,190	1,778,350,978	752	Chase Group	2,200	
Panoma Gas Area* ('56)	12-31-38W		No report	none		Council Grove	2,843	
						Morrowan	5,226	
Panoma South ('59)	29-31-37W	Now called	Panoma Gas Area			Council Grove	2,838	
Panoma Southwest ('58)	35-31-39W	Now called	Panoma Gas Area			Council Grove	2,710	
Perrill ('59)	7-31-37W		No report	none		Morrowan	5,326	
Walkemeyer ('59)	35-33-36W		No report	none		Morrowan	6,145	
West Center ('59)	23-32-39W	Now called	Panoma Gas Area			Council Grove	2,794	
SUMNER COUNTY								
Fall Creek ('50)	3-35-3W		No report			Simpson	4,746	
Murphy	35-3E	1,000	295,067		11			
			309,268	"State Line"	13			
Padgett ('24)	23-34-2E	40	12,288		1	"Miss. Lime"	3,474	
						Marmaton	3,187	
Pride ('58)	34-31-2E		No report	none		Elmont	1,738	
Wellington ('29)	33-31-1W		No longer productive; used for gas storage only			"Chat"	3,655	
Total Sumner County		1,040	616,623		25			
WALLACE COUNTY								
Sexson ('56)	19-13-42W		No report	none		Morrowan	5,008	
WILSON COUNTY								
Altoona-Earleton	29-16E		No report					
Neodesha*	30-16E		No report					
Miscellaneous		800	125,486†		28†			
WOODSON COUNTY								
Gordon ('54)	13-24-15E		No report			"Squirrel"	1,080	
Piqua			No longer productive; used for gas storage only (Capacity 3,230,472)					
Vernon	23-16E		No report					
Miscellaneous		200	13,201		2			
WYANDOTTE COUNTY								
Roberts-Maywood*	11-23E		Included with Leavenworth County			"Peru"		
						"Squirrel"		

* Field extends into adjacent county or counties.

** All figures at base of 14.65 psia.

† Estimated.

‡ Prorated by Conservation Division, Kansas Corporation Commission.

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INDEX

- Abbyville, 191
 Adair, 223
 Adair Southwest, 223
 Adams, 141, 233
 Adamson, 238
 Adams Ranch, 59, 175, 235
 Adell, 139, 209
 Adell Northwest, 139
 Adolph, 231
 Advance, 209
 Aetna, 111, 230
 Aetna Northeast, 230
 Ainsworth South, 113
 Air Base, 144
 Air Base East, 51, 144
 Air Braun, 144
 Alameda, 167
 Albano, 60, 210
 Albion, 191
 Albright, 133
 Alda, 155
 Alden, 40
 Aldrich, 183
 Aldrich Northeast, 183
 Alexander, 12, 51, 131
 Alford, 168, 234
 Allen County, 19, 21, 47, 108, 230
 Allen-Robinson, 123
 Allodium, 155
 Alta Mills, 164
 Altamont, 169
 Altamus, 231
 Altoona, 225
 Altoona-Earleton, 239
 Altoona East, 225
 Amber Creek, 111
 Ameh, 113
 Ames, 113
 Ames Northwest, 113
 Anderson County, 21, 47, 110, 230
 Andover South, 231
 Andrews, 151
 Angell, 175, 235
 Annabelle, 227
 Anson, 219
 Anson Southeast, 219
 Antelope, 63, 173
 Antonino, 144
 Arbor, 13, 55, 190
 Arbuckle, 141
 Arnold, 183
 Arpin, 195
 Arpin East, 195
 Arpin South, 195
 Ashburn, 224
 Ash Creek, 39
 Ash Grove, 140
 Ash Grove West, 56, 204
 Ashland, 131, 231
 Ashton, 219
 Ashton Northwest, 57, 219
 Asmusson, 123
 Atlanta, 59, 133
 Attebery, 57, 219
 Attica, 163
 Atyeo-Pixlee, 128, 159, 171
 Augusta, 123
 Augusta North, 123
 Axman, 114
 Bachofer, 204
 Bacon, 191
 Badger Creek, 219
 Bailey, 114
 Baldwin, 140, 154
 Banker's Life, 170
 Banner, 163
 Banner South, 61, 163
 Banzet, 169
 Barber County, 21, 47, 50, 58, 59, 61, 64, 111, 230
 Barragee, 54, 235
 Barrett, 114
 Barry, 195
 Barry East, 195
 Barry Southeast, 195
 Bartholomew, 167, 205, 238
 Barton County, 8, 18, 19, 21, 24, 25, 31, 39, 47, 50, 58, 59, 60, 62, 65, 113, 231
 Bart-Staff, 114, 210
 Basil, 167, 234
 Batchman, 114
 Battle Hill, 171
 Battle Hill North, 171
 Baum, 195
 Baumgarten, 195
 Bausinger, 123
 Bayer, 210
 Beagle, 170, 176
 Beals, 232
 Beatie, 219
 Beauchamp, 14, 57, 219
 Beauchamp East, 14, 57, 238
 Beaumont, 159
 Beaumont North, 159
 Beaumont South, 160
 Beaver, 114
 Beaver North, 59, 114, 201
 Beaver South, 114
 Beck, 191
 Beckman, 187
 Bedford, 210
 Beeching, 144
 Behrens, 39, 114, 231
 Behrens Northeast, 114, 231
 Beisel, 201
 Bell, 192
 Bellman, 220
 Bellman West, 220
 Belpre, 232
 Bemis-Shutts, 8, 25, 144, 195
 Benedict, 225
 Benson, 185, 236
 Bentley, 205
 Benton, 123
 Bergtal, 39
 Berland Southeast, 195
 Berlin, 128
 Bernard, 114
 Berndsen, 18, 50, 123
 Bernstorf, 133
 Berryman, 14, 54, 236
 Besthorn, 210
 Beyer, 153
 Biddle, 133, 232
 Bielman, 144
 Big Sandy, 227
 Bin, 223
 Bissell Point, 114
 Bitter Creek, 220
 Black, 176
 Blackwell, 160
 Blankenship, 124, 160
 Blazier, 155
 Blazier Northwest, 155
 Block, 176
 Blood, 124
 Bloom, 111
 Bloomer, 115, 151, 192
 Bloom North, 50, 111
 Blowout, 188
 Blue Bell, 238
 Blue Bell Northwest, 238
 Blue Hill, 144

- Blue Hill Northeast, 52, 144
 Blue Hill Northwest, 59, 144
 Blue Hill Southeast, 52, 144
 Blue Mound, 170
 Blunk, 36, 111, 230
 Blunk South, 111, 230
 Boehm, 181, 236
 Boggs, 36
 Boggs Southwest, 111, 230
 Bolinger, 167
 Bonaccord, 140
 Bonaccord Northeast, 140
 Bond, 175, 235
 Boos, 144
 Borchers, 54, 235
 Borchers North, 54, 59, 175, 235
 Borchers Northwest, 54, 175, 235
 Borroum, 128
 Bottoms, 115
 Bourbon County, 21, 47, 122, 231
 Bow, 60, 185
 Bow Creek, 187
 Box, 133
 Boxberger, 201
 Boxberger West, 201
 Boyd, 115
 Boyer, 40
 Bradbridge, 141, 232, 238
 Bradbridge Southwest, 51, 232
 Bradfield, 171
 Bradshaw, 233
 Brandenburg, 133
 Brandt-Sensenbaugh, 124
 Brassfield, 155
 Brassfield South, 155
 Braun, 144
 Bredfeldt, 192, 237
 Bredfeldt Northwest, 192
 Brenn, 210
 Brewster, 178
 Brickley, 124
 Brickley Southwest, 124
 Brinegar, 160
 Broadway, 167, 234
 Broadway West, 167, 234
 Brock, 210
 Bromwell, 175
 Bronson-Xenia, 108, 122
 Brooks-Younger, 111
 Brown County, 123
 Browning, 160
 Browns Grove, 185
 Brown West, 232
 Bruce, 133
 Brumley, 205
 Brumm, 60, 191
 Brundage, 201
 Brundage South, 60, 201
 Brungardt, 144, 196
 Brungardt Northwest, 196
 Bruno, 175, 235
 Bruno Northeast, 175
 Brush Creek, 155
 Brush Creek Northwest, 155
 Bryan, 52, 155
 Buffalo, 40, 226, 227
 Buhler, 191
 Burch, 54, 171
 Burden, 133, 232
 Burden Townsite, 133
 Burdick, 181
 Burk, 171
 Burkett, 160
 Burneister, 50, 115
 Burnham, 52, 145
 Burrton, 164, 191, 233, 237
 Burrton North, 233
 Burrton Northeast, 164, 233
 Burt, 160
 Bush City Shoestring, 110
 Bush-Denton, 142, 233
 Butler County, 19, 21, 24, 25, 31, 47, 50, 58, 59, 62, 65, 123, 231
 Butwick, 124
 Butwick Northeast, 124
 Buzzi, 205
 Byron East, 210
 Byron Southeast, 210
 Cabin Valley, 133
 Cahoj, 11, 13, 55, 191
 Cairo North, 188
 Caldwell, 220
 Caldwell Northwest, 220
 Calf Creek, 192, 237
 Calf Creek North, 192
 Canema, 230
 Caney, 178
 Canfield, 133
 Canton North, 171
 Capitol View, 115
 Carmichael, 196
 Carpenter, 185
 Carpenter Southeast, 55, 236
 Carroll, 115
 Carroll Southwest, 115
 Carver-Robbins, 188, 237
 Carver-Robbins Northeast, 188
 Carwood, 225
 Casley, 167
 Castleton, 191
 Catharine, 145
 Catharine Northwest, 145
 Catharine South, 145
 Catharine Townsite, 145
 Cavalry Creek, 131, 231
 Cedar, 230
 Cedarvale, 133
 Centennial North, 133
 Centerview, 210
 Centerville, 110, 170
 Cephas, 210
 Cephas North, 210
 Chambers, 60, 205
 Chambers Northeast, 206
 Chance, 188, 237
 Chance Northwest, 188
 Chase County, 21, 47, 51, 66, 128, 231
 Chase-Silica, 25, 115, 192, 210, 231, 237
 Chautauqua County, 21, 47, 51, 67, 128, 231, 232
 Cherokee County, 47, 51, 231
 Chesney, 56, 196
 Chetopa, 169
 Cheyenne, 50, 115
 Cheyenne County, 21, 47, 67, 131
 Cheyenne View, 115
 Cheyenne View East, 115
 Childs, 56, 238
 Chindberg, 171
 Chitwood, 188, 237
 Chris, 145
 Chrisler, 145
 Chrisler South, 145
 Church, 133
 Churchill, 220
 Churchill Northeast, 133
 Cimarron Bend, 54, 175, 235
 Claffin, 115
 Cladlin Northeast, 115
 Clara, 111, 188, 230
 Clarence, 115
 Clarence Northwest, 115
 Clark, 62, 133
 Clark County, 21, 29, 47, 51, 68, 131, 231
 Clark Creek, 51, 231
 Clarksburg, 61, 211
 Claussen, 201
 Clay County, 21, 47, 68, 131
 Clearwater, 206

- Cleveland, 211
 Click Southeast, 193
 Climax, 160
 Cline, 211
 Cloud County, 21, 47, 68
 Clubine, 142
 Coal Creek, 201
 Coats, 188
 Coats North, 188
 Coberly, 155
 Cochran, 145
 Coffey County, 21, 47, 131, 232
 Coffeyville-Cherryvale, 169, 178, 234, 235
 Colby, 196
 Coleman, 179
 Collinson, 40
 Collyer, 142
 Colony, 40
 Colony-Welda, 110, 230
 Colony West, 108, 110
 Comanche County, 21, 47, 68, 132
 Combs, 124, 133
 Combs Northeast, 124
 Comiskey Northeast, 181
 Conness, 155
 Converse, 231
 Conway Springs, 57, 220
 Coons, 171, 235
 Cooper, 155, 196
 Copeland, 133
 Corbin, 220
 Cotton, 223
 Cotton East, 223
 Cottonwood Creek, 230
 Couch, 134
 Coulson, 223
 Countryman, 134
 Covert-Sellers, 173
 Cow Creek, 193
 Cowley County, 19, 21, 24, 33, 47, 51, 59,
 62, 69, 133, 232
 Coyville West, 226
 Craig, 40, 234
 Crandall, 131, 232
 Crane, 62, 134
 Crawford, 193
 Crawford County, 21, 47, 138, 232
 Crawford Southeast, 193
 Cresson, 196
 Crissman, 211
 Critzer, 170
 Cromb, 145
 Cross, 206
 Crowe, 220
 Crowther, 171
 Cruce, 183
 Crystal Springs, 53, 233
 Cullison, 188, 237
 Cunningham, 167, 188, 234, 237
 Curry, 206
 Curtis, 211
 Custer, 209
 Custer Northwest, 56, 209

 Dale, 54, 234
 Dallas, 166
 Damme, 153
 Damme Northeast, 153
 Dancer, 196
 Dartnell, 169
 Davenport, 183
 David, 134
 Davidson, 115, 201
 Davis, 231
 Davis-Bronson, 108, 122
 Davis Ranch, 224
 Dayton, 187
 Decatur County, 21, 47, 51, 70, 139
 Dechant, 145
 Deerhead, 111, 230

 DeGeer, 111, 230
 Degenhart, 145
 Degenhart Southeast, 145
 DeGraff, 124
 Deichman, 134
 Deines, 50, 116
 Dell, 211
 Dell East, 211
 Dell Northeast, 211
 DeMalorie-Souder, 160
 Demel, 116
 Densmore, 184
 Denton, 134, 232
 DeWerff, 50, 62, 116
 Dewey, 167, 234
 Dexter, 134
 Dickinson County, 21, 47, 62, 71, 140
 Diebolt, 155, 223
 Dillwin, 211
 Dinges, 145
 Dixon, 124
 Donald, 111, 230
 Donelson, 134
 Donovan, 201
 Dopita, 196
 Dopita East, 196
 Dorman, 61, 155
 Dorman West, 61, 155
 Dorr, 196
 Dory, 142
 Douglas County, 21, 47, 140
 Douglass, 124
 Douglas Townsite, 125
 Doyle Creek, 173
 Drach, 211
 Dreher, 56, 201
 Dreiling, 145
 Dreiling Southeast, 145
 Dresden, 167, 234
 Driftwood, 36
 Driscoll, 202
 DuBois, 164, 206
 DuBois East, 53, 164
 Dubuque, 202
 Duggan, 211
 Dunaway, 131, 160
 Dunbar, 134
 Dundee, 39, 231
 Dunes, 185
 Dunes Southwest, 185
 Dunes West, 185
 Dunkleberger, 142
 Durham, 173
 Dymond, 193

 Eads, 60, 111, 189
 Eagle Creek, 145
 Eagle Creek East, 146
 Earl, 189
 Earl North, 189
 Earlton, 236
 Eastborough, 206
 Eastborough North, 206
 Eastman, 134
 Eberhardt, 116, 231
 Eckel, 125
 Edgecomb, 125
 Edmonds, 125, 173
 Edna, 169
 Edstaff, 232
 Edstaff Northwest, 62, 141, 232
 Edwards County, 21, 47, 51, 58, 61, 62, 71,
 141, 232
 Egger, 60, 223
 Elders, 56, 60, 196
 Elbing, 125, 173
 Elbing East, 125
 Elbing North, 174
 Elbing South, 125
 Elbing West, 50, 62, 125

- El Dorado, 25, 125
 Egin, 128
 Elk City, 40, 129, 142, 179
 Elk County, 21, 47, 72, 141, 233
 Elkhart, 181, 236
 Elkhart West, 236
 Ellinwood North, 116
 Ellis, 146, 223
 Ellis County, 8, 19, 21, 24, 25, 47, 51, 59, 61, 62, 72, 144
 Ellis Northwest, 223
 Ellis Southwest, 58, 223
 Ellsworth County, 21, 24, 25, 47, 73, 151, 233
 Elmdale, 231
 Elmore, 183, 200
 Elrick, 155
 Elrick East, 52, 156
 Elrick South, 52, 156
 Elrod, 134
 Elrod East, 51, 134
 Elsea, 36, 111, 230
 Elsmore Shoestring, 108
 Elsmore West, 108
 Elwood, 36, 111, 230
 Elyria, 172, 235
 Embry, 141, 232
 Emerson, 211
 Emmeram, 146
 Emmeram Northeast, 146
 Emmeram Townsite, 146
 Emor, 156
 Engel, 146
 Engel West, 146
 English, 51, 141
 Enlow, 141
 Enterprise Northeast, 134
 Enterprise Southwest, 134
 Entz, 50, 125
 Erbert, 146
 Erie, 182
 Esfeld, 116
 Ess, 116
 Estep, 134
 Estep West, 51, 134
 Estes, 134, 232
 Eubank, 14, 30, 59, 165, 234
 Eubank East, 14, 53, 59, 165
 Eubank North, 14, 53, 165
 Eubank South, 63, 165
 Eubank Southeast, 14, 53, 165
 Eudora South, 140
 Eulert, 202
 Eulert West, 202
 Eureka, 160
 Evan Mound, 61, 167
 Evans, 132, 227
 Evergreen, 156
 Evergreen Northwest, 156
 Evers, 185, 236
 Evers South, 236
 Fabricius, 156
 Fabricius South, 156
 Fairplay, 174
 Fairport, 146, 202
 Fairview, 206
 Fairview Northeast, 56, 206
 Fall Creek, 220, 239
 Fancy, 160
 Fankhouser, 160, 171
 Fanska, 174
 Fargo West, 156
 Farley, 36, 111, 230
 Farmer, 193
 Farmer North, 193
 Farmington, 211, 238
 Farmington North, 238
 Farmington Northeast, 211, 238
 Farmington Northwest, 211
 Farmington West, 238
 Fatzer, 58, 141, 232
 Faubion, 196
 Faul, 156
 Faulkner, 156
 Feely, 139
 Fehnel, 196
 Feist, 116
 Feist North, 50, 59, 116
 Feltes North, 58, 116
 Ferguson East, 142
 Ferguson Northwest, 134
 Ferguson West, 134
 Ferrell, 125
 Ferrell North, 160
 Fincham, 175, 235
 Finn, 50, 59, 116
 Finnerty, 132
 Finnesy, 196
 Finnesy South, 196
 Finney County, 21, 38, 47, 52, 62, 74, 153, 233
 Finnup, 153
 Finnup East, 153
 Fitzsimmons, 189
 Fitzsimmons South, 189
 Flagler, 196
 Fleming, 142
 Fleske, 116
 Flint, 125
 Florence, 174
 Ford County, 21, 47, 62, 75, 153, 233
 Fort Hays State College, 146
 Fort Zarah, 116
 Fort Zarah North, 116
 Four Mile Creek, 125
 Fox-Bush, 125
 Fox-Bush West, 125
 Franklin, 55, 183
 Franklin County, 21, 47, 154
 Frazier, 129
 Frederick, 193
 Fredericksburg, 187
 Fredonia, 40, 226
 French Creek, 174
 Frey, 211
 Frisbie, 189
 Frisbie Northeast, 189, 237
 Frog Hollow, 134, 232
 Frog Hollow East, 134
 Furley, 206
 Gaffney, 160
 Galatia, 116
 Galatia East, 50, 116
 Galt, 193
 Ganoung, 197
 Garden, 125
 Gardner, 166
 Garfield, 185, 236
 Garnett Shoestring, 110
 Gasaway, 146
 Gates, 212, 238
 Geary County, 18, 21, 48, 52, 75, 154
 Gehring-Rick, 206
 Gelwick, 125
 Geneseo-Edwards, 151, 193
 George, 209
 George Southwest, 209
 Georob, 172
 Gerber, 163
 Gerberding, 220
 Ge-See, 13, 52, 154, 224, 225
 Gettysburg, 156
 Geuda Springs, 135
 Gibson, 135, 232
 Gibson East, 51, 232
 Gick, 197
 Ginther, 146

- Gilchrist, 167, 234
 Gillberg, 56, 204
 Gingrass, 164
 Gish, 163
 Gladys, 206
 Gladys South, 206, 238
 Gladys Southeast, 206
 Gladys Southwest, 61, 206
 Glasscock, 58, 212
 Glen, 212
 Glen Dale Southeast, 156
 Glen Dale Southwest, 156
 Glen Sharrauld, 193
 Glenwood, 187
 Glick, 234
 Goebel, 53, 165
 Goessel, 172
 Goetz, 36, 167, 234
 Goheen, 163
 Goodrich, 206
 Goodrich-Parker, 170
 Gordon, 239
 "Gordon," 227
 Gorham, 202
 Gottland, 54, 172
 Gottschalk, 146
 Gould, 14, 53, 163
 Gove, 155
 Gove County, 21, 48, 52, 75, 155
 Graber, 164, 172, 233
 Graber North, 172, 235
 Graham, 135, 232
 Graham County, 8, 18, 21, 24, 48, 52, 59, 61, 62, 75, 155, 233
 Grand Summit, 135, 142
 Grant, 163, 233
 Grant County, 21, 36, 38, 48, 53, 63, 77, 159
 Gra-Rook, 197
 Gra-Rook North, 197
 Gra-Rook Northeast, 56, 197
 Gra-Sher, 53, 157
 Gray, 212
 Great Bend Airport, 116
 Great Bend Northwest, 116
 Great Bend Southwest, 117
 Great Bend Townsite, 117
 Great Bend West, 117
 Greeley, 110
 Greeley County, 21, 48, 77
 Green Garden, 152
 Green Ridge, 212
 Greensburg, 168, 234
 Greensburg Northeast, 234
 Green Valley, 212
 Greenwich, 207
 Greenwood County, 19, 21, 24, 31, 48, 53, 77, 159
 Greenwood Gas Area, 36, 236
 "Gridley," 232
 Griffith, 131
 Grigston, 205
 Grinnell, 52, 155
 Groff, 60, 223
 Grouse Creek, 135
 Groveland, 172
 Groveland Northeast, 172
 Groveland South, 172
 Grover, 197
 Grow, 212
 Grunder, 60, 212, 238
 Grunder Southwest, 56, 212, 238
 G. R. W., 168
 Gudeman, 111
 Guelph, 220
 Gurk, 156
 Guzzlers Gulch, 55, 184
 Gypsum Creek, 172, 204
 Haberman, 50, 117
 Hackney, 135
 Hackney North, 51, 135
 Hagerman, 56, 202
 H A H, 212
 Hahn East, 212
 Hale-Inge, 129, 142
 Hallet, 165
 Hall-Gurney, 25, 117, 202
 Halstead, 164
 Hamilton, 160
 Hamilton County, 21, 38, 48, 53, 77, 163, 233
 Hammeke, 117
 Hammeke Southeast, 117
 Hammeke West, 50, 59, 117
 Hammer, 117
 Hammond, 212
 Hanke, 239
 Hannah, 125
 Hansen, 187
 Hansen West, 187
 Happy Valley, 212
 Happy Valley Northeast, 212
 Hardesty, 139
 Hardtner, 36, 112, 230
 Hardy, 234
 Harmac, 164, 172
 Harmony, 156
 Harmony South, 156
 Harper, 163, 233
 Harper County, 21, 33, 48, 53, 61, 78, 163, 233
 Harper Ranch, 131, 231
 Harper Ranch North, 131, 231
 Harrison, 117
 Harrold, 156
 Harter, 212
 Harter North, 212
 Harvey, 135, 233
 Harvey County, 16, 21, 48, 53, 78, 164
 Haskell County, 21, 38, 48, 53, 59, 63, 79, 165, 234
 Haskins, 189
 Hatch, 132
 Hatcher, 156
 Hattie, 13, 36, 53, 63, 233
 Hattie Northeast, 14, 36, 53, 63, 234
 Haven, 191
 Haverhill, 125
 Haviland, 168, 234
 Hawkins, 117
 Hawks, 208, 238
 Hawley, 51, 141
 Hayden, 197
 Haynes, 56, 57, 213, 238
 Hazel, 213
 Hazel West, 213
 Hazlett, 125
 Hearn, 186, 236
 Hearn North, 236
 Heiken, 152
 Heiken North, 152
 Heim, 203
 Heim Northeast, 237
 Heinz, 193
 Heizer, 117
 Heizer Southwest, 117, 231
 Heizer West, 117
 Helene, 58, 213
 Helfrich, 163
 Helmers, 62, 233
 Henderson, 135
 Henne, 172
 Hepler, 122, 138
 Herbert, 59, 146
 Herl, 147
 Herres, 117
 Herr North, 200
 Hertel Southwest, 147
 Herzog, 147
 Herzog South, 52, 147

- Hewins, 129
 Hewins Northwest, 231
 Heyen, 213
 Heyen East, 213
 Heyl, 147
 Heyl Southeast, 52, 147
 Hibbard, 163, 233
 Hick, 13, 53, 159
 Hickman, 213
 Hickman South, 213
 Hickman West, 57, 213
 Hickory Creek, 126
 Higby, 135
 Higer, 156
 Higer Northeast, 156
 Highland, 156
 Highland Southwest, 156
 Highway, 112
 Hilger, 191
 Hilger Southwest, 191
 Hill City, 157
 Hillsboro, 174
 Hillsboro East, 54, 235
 Hillside, 61, 197
 Hinchman, 160
 Hiss, 117
 Hiss East, 117
 Hiss South, 117
 Hiss Southeast, 118
 Hittle, 135
 Hlavaty, 50, 118
 Hockett, 175, 235
 Hodgeman County, 21, 48, 53, 79, 165
 Hohn, 207
 Hoisington, 118
 Hoisington East, 118
 Hoisington Southwest, 118
 Holley, 157
 Holley North, 157
 Holley Northwest, 157
 Holley Southeast, 157
 Hollis, 160
 Hollow-Nikkel, 164, 172, 233
 Holt, 208, 238
 Holy Cross, 147
 Holz, 52, 147
 Homburg, 223
 Homestead West, 118
 Hoof, 157
 Hoof East, 53, 157
 Hoof Northwest, 157
 Hoof West, 157
 Hopewell, 189, 237
 Horace, 235
 Horace South, 36, 54, 235
 Horesky, 55, 184
 Horsch, 220
 Hortonville, 209
 "Houston," 138
 Hoxie, 209
 Hubbard, 160
 Hufford, 213
 Huffstutter, 187
 Huffstutter Southwest, 187
 Hugoton Gas Area, 13, 14, 21, 35, 36, 37, 38, 39, 40, 233, 234, 236, 238, 239
 Humboldt-Chanute, 33, 108, 182, 226, 227, 230
 Humphreys, 237
 Hunter, 204
 Hunter North, 204
 Huntington, 157
 Hutton, 157
 Hymer, 231
 Idenbro, 169
 ILS, 50, 230
 ILS Southwest, 230
 Interchange, 57, 220
 Interstate, 181, 236
 Iola, 109
 Ironclad, 157
 Irvin, 147
 Irvin East, 147
 Iuka-Carmi, 189, 237
 Iuka-Carmi Northwest, 189
 Ivanhoe, 13, 52, 153
 Ixli, 193
 Jac, 186, 236
 Jackson, 160
 Jackson County, 21, 48, 80
 Jackson Southwest, 160
 Jacob, 147
 Janne, 203
 Jay, 186
 Jay South, 186
 Jefferson County, 234
 Jefferson-Sycamore, 179
 Jelinek, 197
 Jem, 61, 189
 Jenday, 172
 Jennings, 139
 Jennings Southeast, 139
 Jerry, 203
 Jessie, 186
 Jetmore, 165
 Jetmore East, 53, 165
 Jetmore West, 165
 Jettie, 118
 J. H. M., 62, 141
 Jobs, 160
 Johannsen, 168, 234
 John Creek, 181
 Johnson, 172
 Johnson County, 21, 48, 80, 166, 234
 Johnson South, 172
 Jordan, 213
 Jorn, 139
 Joy Station, 234
 Kachelman, 213
 Kaiser, 52, 147
 Kane, 234
 Kanok, 135
 Kanok North, 135
 Kearny County, 21, 30, 38, 48, 53, 63, 80, 166, 234
 Keechi, 207
 Keeley, 57, 213
 Keenan, 213
 Keighley, 126
 Kelly West, 57, 213
 Ken, 12, 51, 131
 Kenilworth, 213
 Kenyon, 157
 Kerley, 57, 220
 Kern, 197
 Kern West, 197
 Kerschen, 220
 Key, 142
 Keystone, 205, 237
 Kimball, 182
 Kimpler, 118
 Kincaid, 111
 Kindig, 223
 Kingman County, 21, 48, 54, 61, 81, 167, 234
 Kingston, 129
 Kinsler, 36, 55, 236
 Kiowa County, 21, 29, 48, 54, 61, 63, 81, 168, 234
 Kipfer, 142
 Kipp, 213
 Kipp North, 213
 Kipp Northeast, 213
 Kipp Southwest, 213
 Kirk, 141, 232
 Kismet, 60, 208

- Kismet East, 175, 235
 Kismet Northwest, 208, 238
 Kismet South, 208
 Klenda, 54, 174
 Klenda Northwest, 54, 174
 Klepper, 118
 Klepper North, 50, 118
 Klug, 118
 Klug North, 118
 Klug Northwest, 118
 Klug West, 118
 Kneeland, 208
 Knoche South, 213
 Knoll, 157
 Knoll Northwest, 157
 Kober, 56, 200
 Kobler, 157
 Koblitz West, 52, 147
 Koegeboehn, 51, 128
 Koelsch, 214
 Koelsch Southeast, 214
 Koelsch West, 57, 214
 Koenig, 165, 234
 Kompus, 13, 55, 191
 Konda, 153
 Koopman, 118
 Kowalsky, 118, 214
 Kowalsky Southwest, 214
 Kraft-Prusa, 25, 27, 119, 152
 Kraft-Prusa Northeast, 119
 Kramer-Stern, 126
 Krankenber, 214
 Kraus, 147
 Krier, 231
 Kruckenberg, 119
 Krueger, 147, 197
 Kruse, 197
 Kruse Northwest, 197
 Kune, 203
 Kuske, 207
 Kutina, 223
- Labette County, 21, 48, 169, 234
 Lacerte, 157
 LaCygne-Cadmus, 170, 235
 Lake, 50, 112
 Lake Barton, 119
 Lake City, 112, 230
 Lake Creek, 169
 Lakin, 166
 Lalouette, 174
 Lamont, 160
 Landis, 112
 Landon-Floyd, 129
 Lane, 161
 Lane County, 21, 48, 82
 Lang, 203
 Lania, 13, 58, 223
 Lansdowne North, 167
 Lanterman, 119
 Larkin, 119
 Larned, 186, 236
 Larson, 172
 Larson Southwest, 54, 172
 Latham, 50, 126
 Latimer, 54, 181
 Laton, 197
 Latta, 220
 Latta North, 207
 Latta Northwest, 221
 Lauppe, 51, 135
 Law, 157, 233
 Law Northwest, 157
 Law Southeast, 157
 Leavenworth County, 48, 170, 235
 Lee, 221
 Leesburgh, 214
 Lehigh, 174
 Lehigh North, 174, 235
- Leiker, 147
 Leiker East, 147
 Leiker North, 147
 Leiker Southeast, 148
 Leinmiller, 52, 148
 Leiss, 214
 LeLoup, 154
 Leniton, 129
 Leo, 214
 Leon, 126
 Leonard, 129
 Leoville, 119
 Lerado, 191, 237
 Leroy North, 132
 Liberal-Light, 208, 238
 Liberal Southeast, 208, 238
 Liberty, 119
 Liberty North, 40
 Liberty South, 40
 Lieb, 148
 Lieb East, 59, 148
 Lincoln, 214
 Lincoln County, 21, 48, 82
 Lincolnville, 63, 174
 Lindeman, 53, 157
 Lindsborg, 172, 204
 Lindsborg South, 172
 Linn County, 21, 48, 170, 235
 Linwood, 235
 Lion Northeast, 189
 Lipps, 231
 Liscoe, 142
 Little Bear Creek, 112, 230
 Livengood, 123
 Llanos, 209
 Lock, 54, 167
 Locust Grove, 197
 Logan, 187
 Logan County, 21, 48, 54, 82, 171
 Logsden, 142
 Lohrey, 200, 237
 Lone Star, 197
 Long, 126
 Long Northeast, 126
 Longton, 40, 142, 233
 Longton North, 143
 Loretto Northeast, 200
 Lorraine, 152
 Lorraine North, 152
 Lost Creek, 122
 Lost Springs, 140, 174, 235
 Lost Springs North, 62, 140
 Lost Springs Northeast, 62, 140
 Lost Springs Northwest, 62, 140
 Lost Springs Southeast, 174
 Louisburg, 176, 235
 Love, 143
 Lovell, 51, 135
 Lovett, 186
 Lowe, 129
 Ludwick, 189
 Luening, 207
 Lundgren South, 155
 Ly-Green, 161, 171
 Lynd, 197
 Lynd Southwest, 197
 Lyon County, 21, 48, 83, 171
 Lyons, 193, 237
 Lyons Southwest, 237
- McAllister, 129
 McCaig, 58, 59, 126
 McCandless, 214
 McCann, 126
 McCarty, 232
 McCarty Northeast, 232
 McCauley, 119
 McClanahan, 141, 232
 McClellan, 197

- McCracken, 200
 McCune, 138, 232
 McGinty Northwest, 214
 McGlasson, 129
 McGlasson West, 51, 129
 McGuire-Goemann, 36, 112, 230
 McHale, 197
 McIlhenny, 221
 McKay, 135
 McKinney, 21, 36, 131, 175, 231, 235
 McLouth, 40, 234
 McMullen, 58, 197
 McNown, 129
 McPherson, 172, 235
 McPherson County, 21, 24, 48, 54, 59, 61, 83, 171, 235
 McReynolds, 58, 112, 230
 McVey, 157
 McWherter, 227
 Machin, 203
 Macksville East, 214
 Maddix North, 135
 Madison, 161
 Maes, 152
 Mahannah, 135
 Malone, 129
 Mansur, 136, 232
 Mansur Southwest, 51, 136
 Maple, 136
 Marc, 198
 Marcotte, 198
 Margaret, 221
 Margheim, 184
 Marion County, 19, 21, 48, 54, 63, 84, 173, 235
 Markley, 221
 Marshall County, 15, 21, 48, 85
 Mary Ida, 119, 193
 Mary Ida North, 119
 Mary Ida South, 60, 193
 Massey, 61, 141
 Massoni, 208, 238
 Max, 214
 Maxwell, 173
 Mayfield, 221
 Mayhew, 198
 Meade County, 21, 36, 48, 54, 59, 86, 175, 235
 Meadows, 119
 Meadows, 119
 Meadows Northwest, 50, 119
 Medicine Creek, 198
 Medicine Lodge-Boggs, 112, 230
 Medicine Lodge North, 112, 230
 Medicine Lodge Southwest, 36, 112, 230
 Medicine Lodge West, 36
 Medway, 14, 53, 233
 Meier, 203
 Meistrell Southwest, 52, 148
 Melcher, 63, 174
 Mellor, 126
 Mellor East, 126
 Mellor Northeast, 126
 Mendota, 148
 Mentor, 204
 Merle, 214
 Merritt, 186
 Merten Northeast, 59, 119
 Merten Southwest, 231
 Metz, 221
 Miami County, 21, 49, 176, 235
 Mickleson, 157
 Mignot, 161
 Mildrexter, 157
 Mildrexter Southeast, 157
 Mildrexter Southwest, 62, 157
 Mill Creek, 225
 Miller, 163
 Mills, 143
 Mingo, 223
 Minneha, 207
 Mitchell, 157
 Mohler, 175, 235
 Mohler Northeast, 175, 235
 Moline, 143
 Monaghan, 139
 Montgomery, 158
 Montgomery County, 21, 34, 49, 178, 235
 Montgomery East, 158
 Mont-Sol, 187
 Monument, 54, 171
 Moody, 214
 Mooney, 60, 63, 193
 Mooney Southeast, 55, 194
 Moore, 189
 Moore Southwest, 190
 Moore West, 55, 190
 Moorhouse, 234
 Mopac, 214
 Moran, 109
 Morehead, 182
 Morel, 158
 Morel North, 158
 Morning Star, 215
 Morris County, 21, 49, 54, 63, 86, 181, 236
 Morrison Northeast, 131, 231
 Mortimer, 204
 Morton, 191
 Morton County, 21, 36, 38, 49, 54, 181, 236
 Morton Southeast, 191
 Moses, 119
 Mound Ridge Townsite, 61, 172
 Mound Valley, 169
 Mt. Ayr, 198
 Mt. Etna, 53, 158
 Mt. Tabor, 126
 Mount Vernon, 158
 Mt. View, 215
 Moyer, 221
 Moyer Northwest, 57, 221
 Muddy Creek, 126
 Mueller, 215
 Mule Creek, 132
 Mullinville, 168
 Munyon, 194
 Munyon South, 194
 Murdock, 126
 Murphy, 136, 221, 239
 Nagel, 215
 Nana, 158
 Nana Northwest, 158
 Neddham, 148
 Nellie Belle, 148
 Nelson, 63
 Nelson West, 63, 174, 181
 Nemaha County, 49, 181
 Neodesha, 180, 226, 239
 Neodesha East, 227
 Neodesha South, 235
 Neola, 215
 Neosho County, 21, 49, 236
 Neosho Falls-Leroy, 109, 132, 227
 Ness County, 21, 49, 55, 87, 183
 Nettie, 198
 Nettie Southeast, 198
 Neuman, 207
 Neva, 231
 New Albany, 143
 Newbury, 225
 Newcomer, 223
 Newcomer Northwest, 223
 Newell, 215
 Newlin, 198
 New Salem, 232
 Newsom, 186
 Ney, 203
 Ney South, 119
 Ney Southwest, 50, 120

- Nichols, 36, 168, 234
 Nicholson, 148, 223
 Nicholson North, 148
 Nichols South, 54, 234
 Nichols Southwest, 63, 168, 234
 Nicklaus, 191
 Nigger Creek, 136
 Niotaze, 129
 Nippawalla, 112, 230
 Nonken, 54, 174
 Norris, 221
 North, 148
 Northampton, 198
 North Star, 215
 Norton, 184
 Norton County, 21, 49, 55, 88
 Norwood, 154
 Nova, 53, 165
 Novinger, 176
 Novinger East, 18, 54, 176, 235
 Novinger Northwest, 176, 235
 Nunn, 153, 233
 Nunn North, 153
 Nurse, 230
 Nuss, 120, 203
 Nyra, 198

 O'Connor, 215, 238
 Odessa, 194
 Odessa South, 194
 Odin, 120
 Ogallah, 223
 Ogallah Northwest, 224
 Ogle, 129
 O'Hara, 221
 Oliver, 129
 Olmitz, 120
 Olsen, 136
 Olsson, 204
 Omlor, 215
 Orange, 186
 Ordway, 198
 Ordway East, 56, 198
 Oro, 186
 Orsemus, 167
 Orsemus South, 167
 Orth, 194, 237
 Orth West, 194
 Osborne County, 21, 49, 59, 89, 185
 Oscar, 215
 Oscar North, 215
 Oscar South, 215
 Oscar West, 215
 Otis-Albert, 39, 120, 200, 231, 237
 Ott, 161
 Ottawa, 154
 Otto, 59, 136
 Oxford, 221
 Oxford West, 221

 Pabst, 184
 Paden, 173
 Padgett, 221, 239
 Padgett West, 221
 Palco Townsite, 198
 Palmer, 59, 112, 230
 Palmer West, 50, 230
 Panama, 63
 Panama Gas Area, 13, 14, 36, 233, 234, 239
 Panama North, 36, 63, 233
 Panama Northeast, 13, 36, 53, 63, 233
 Panama South, 14, 36, 57, 63, 239
 Panama Southwest, 36, 63, 239
 Paola-Rantoul, 154, 177
 Paradise Creek, 198
 Paradise Creek West, 198
 Park, 55, 190
 Parker, 203
 "Parmely," 132
 Parnell, 56, 209

 Parsley, 126
 Pat Creek, 167
 Patsy, 236
 Patterson, 166
 Paul, 50, 126
 Paulson, 127
 Paulson Northeast, 127
 Pawnee County, 21, 39, 49, 55, 60, 89, 185, 236
 Pawnee Rock, 39, 120, 186, 231, 236
 Peabody, 174
 Pechanec, 200
 Peck, 136, 232
 Penny-Wann, 148
 Penokee, 158
 Perkins, 143
 Perrill, 14, 57, 239
 Perry-Halligan, 227
 Perry Ranch, 132, 232
 Perth, 221
 Peru-Sedan, 130
 Petersilie, 184
 Petrie, 207
 Petrie Northwest, 207
 Phares, 127
 Phillips, 120
 Phillips County, 21, 49, 55, 187
 Pierce, 127
 Pierce Northwest, 127
 Pierce West, 127
 Piqua, 40, 227, 239
 Plains, 59, 176, 235
 Plains West, 208, 238
 Plainville, 198
 Pleasant, 148
 Pleasant Grove, 215
 Pleasant Prairie, 13, 30, 59, 153, 165, 166
 Pleasant Prairie North, 13, 52, 62, 153
 Pleasant Prairie Northwest, 62, 153
 Pleasant Valley, 153, 233
 Plevna, 55, 237
 Ploger, 165
 Plum Grove, 127
 Polhamus, 161
 Polifka, 148
 Pollnow, 139
 Pollyana, 14, 53, 159
 Ponce, 194
 Ponce Southeast, 55, 194
 Pontiac Southwest, 127
 Popp, 120
 Porter, 143
 Portland, 221
 Portland South, 222
 Poxy, 136
 Pottawatomie County, 15, 21, 49, 90
 Potter, 148
 Potter Southeast, 52, 62, 148
 Potwin, 127
 Powell, 127
 Praeger, 57, 60, 215
 Prairie Center, 166
 Prairie Dog, 51, 139
 Prairie Glen, 158
 Prairie Glen Southeast, 158
 Prairie Glen Southwest, 158
 Prairie Home South, 215
 Prairie View, 120
 Pratt County, 21, 49, 55, 60, 61, 91, 188, 237
 Prettyman, 192
 Price, 169
 Priddy, 222
 Pride, 239
 "Priest," 136
 Pritchard, 120, 215
 Progress, 152
 Progress Northwest, 152
 Prosper East, 194
 Pudden, 136
 Pundsack, 215

- Pundsack North, 215
 Purdyville, 165
 Putnam, 120
 Putnam West, 120
 Pyle, 168
 Pywell, 199

 Quaker, 61, 168
 Quarry, 136
 Quincy, 161, 228

 Radium Townsite, 216
 Radke, 216
 Radke East, 216
 Rahn, 136
 Rahn Northeast, 136
 Rainbow Bend, 136, 222
 Rainbow Bend Southwest, 136
 Ramsey, 130
 Randle, 190
 Rattlesnake, 216, 238
 Rattlesnake East, 216, 238
 Rattlesnake North, 57, 216
 Rattlesnake Southeast, 60, 216
 Rattlesnake Southwest, 216
 Rattlesnake West, 216
 Ratzlaff, 175
 Rauckman, 136, 232
 Rawlins County, 21, 49, 55, 60, 92, 190
 Ray, 158, 184, 187
 Raynesford, 149
 Raynesford East, 149
 Ray North, 184
 Ray Northwest, 184
 Ray Southeast, 199
 Ray West, 184
 Red Brick, 120
 Red Line, 158
 Red Line North, 158
 Redwing, 120
 Redwing East, 120
 Redwing Southwest, 50, 120
 Reece, 161
 Reed, 149
 Reich, 203
 Reich South, 56, 203
 Reichel, 39, 200, 237
 Reida, 167
 Reida South, 168
 Reida West, 168
 Reif South, 121
 Reimer, 121
 Rell, 190
 Rellim, 194
 Reno County, 21, 24, 49, 55, 93, 191, 237
 Rettig, 143
 Reyer, 236
 Reynolds-Schaffer, 127
 Rhoden, 224
 Rhodes, 112, 230
 Rhodes North, 36
 Rhodes Northeast, 36, 112, 230
 Rhodes South, 36, 112, 230
 Rice, 55, 186
 Rice County, 21, 24, 25, 49, 55, 60, 63, 94, 192, 237
 Rich, 130
 Richards, 149
 Richardson, 216
 Richfield, 36, 181, 236
 Rick, 121, 194, 231
 Rickard, 194
 Rick Southeast, 194
 Ridgeway, 224
 Riffe, 199
 Riga Northeast, 60, 224
 Riley, 216
 Riley County, 18, 21, 49, 56, 60, 94, 195
 Ringwald, 194
 Ritchey-Moore, 171

 Ritz-Canton, 59, 173, 235
 Riverview, 149
 Riverview South, 149
 Robbins, 207
 Robbins Ranch, 132, 232
 Roberts-Maywood, 235, 239
 Robin, 53, 158
 Roby, 143
 Rock, 136
 Rock Creek, 171
 Rock North, 137
 Roesler, 121, 194
 Rohr, 149
 Rollingson, 190
 Rolla, 14, 55, 236
 Rolling Green East, 121
 Rombold, 127
 Rooks County, 21, 24, 25, 49, 56, 58, 60, 61, 95, 195
 Rosedale, 168
 Rose East, 228
 Rose Valley, 216
 Rothe, 237
 Rothfelder, 205
 Rothgarn, 216
 Rothgarn Southeast, 216
 Round Hill, 173
 Roundup South, 113, 230
 Roxbury, 173
 Roxbury South, 173
 Ruder, 149
 Ruder North, 149
 Ruder Southwest, 52, 149
 Rueb, 131
 Rueb South, 12, 51, 131
 Ruggles, 185
 Ruggles South, 185
 Runnymede, 163, 233
 Rush Center, 201
 Rush Center Northeast, 201
 Rush County, 21, 39, 49, 56, 95, 200, 237
 Rusk, 57, 222
 Russell, 203, 237
 Russell County, 21, 24, 25, 31, 49, 56, 60, 96, 201, 237
 Russell East, 203
 Rutherford, 186
 Rutter, 222
 Rutter Southwest, 222
 Ryan, 39, 186, 201, 236, 237
 Ryan East, 237
 Ryan Southeast, 186, 236
 Ryersee, 184
 Ryersee Southwest, 184

 Sabetha, 181
 St. John, 216
 St. John East, 57, 217
 St. John North, 217
 St. John Northwest, 217
 St. John Townsite, 217
 St. Paul-Walnut, 139, 183, 232
 St. Peter, 59, 121
 St. Peter East, 121
 Salem, 137
 Salina, 204
 Salina South, 204
 Saline County, 21, 49, 56, 96, 204
 Salley, 238
 Sallyards, 161
 Salter, 127
 Salt Springs Northwest, 161
 Sandago, 217
 Sand Creek, 158
 Sanders, 176, 235
 Sandford, 121
 Sand Hills, 217
 Sandrock, 121
 Sandrock North, 50, 121
 Sappa Creek, 191

- Satanta, 165
 Saterlee, 217
 Saundra, 217
 Savonburg, 123
 Saw Log Creek, 165
 Sawyer, 190, 237
 Schindler, 56, 199
 Schmeidler, 149
 Schmeidler Northwest, 149
 Schmied, 158
 Schmied Northeast, 158
 Schmied Northwest, 158
 Schmied South, 158
 Schnebly, 159
 Schoenchen, 149
 Schoenchen Townsite, 149
 Schoharie, 184
 School Creek North, 137, 232
 School Teacher, 190
 Schrader, 143, 233
 Schulte, 207, 238
 Schulte South, 207
 Scott, 161
 Scott County, 21, 49, 56, 97, 205, 237
 Scurlock, 149
 Seacat, 137
 Sedgwick County, 16, 21, 24, 49, 56, 58, 60, 61, 97, 205, 238
 Seeley-Wick, 30, 161
 Seevers, 217
 Seevers Northwest, 217
 Seibert, 109
 Selma, 111
 Sequoyah, 153
 Sessin, 149
 Settle, 234
 Severy, 143, 161
 Severy North, 161
 Seward County, 21, 38, 49, 60, 98, 208, 238
 Sexson, 239
 Seydell, 60, 222
 Shady, 186, 236
 Shady North, 236
 Shady Southwest, 186, 236
 Shaeffer, 217
 Shallow Water, 14, 205
 Shallow Water Northeast, 14, 56, 205
 Shank, 175
 Shank South, 54, 175
 Shannon, 51, 137
 Sharon, 113, 163, 230
 Sharon Northeast, 163, 233
 Sharon Northwest, 36, 113, 230
 Shepherd, 217
 Shepherd North, 217
 Shepherd Northwest, 217
 Shepherd South, 61, 217
 Sheridan County, 21, 49, 56, 98, 209
 Sherman County, 21, 49, 100, 209
 Shiley, 186
 Shiley East, 186
 Shiloh, 159
 Shinn, 127
 Shinn Northeast, 127
 Shore, 14, 57, 219
 Shriver, 190, 237
 Shuck, 60, 208, 238
 Silver Bell, 217
 Silver City, 228
 Singley, 176, 235
 Sitka, 51, 231
 Sittner, 218
 Skinner, 113, 230
 Slate, 199
 Slate Creek, 222
 Slick-Carson, 137, 222
 Slinker, 187
 Smallwood, 218
 Smith, 137
 Smith County, 21
 Smock-Sluss, 127
 Smolan, 205
 Smoots Creek, 54, 168
 Symres North, 194
 Snake Creek, 131, 231
 Snake Creek East, 131
 Snake Creek Northeast, 18, 51, 232
 Snake Creek Southwest, 51, 232
 Snider, 218
 Snider South, 218
 Snowberger, 236
 Snowden-McSweeney, 127
 Soldier Creek, 168
 Solomon, 149
 Solomon South, 149
 Solomon Southeast, 149
 Sonderegger, 153
 Sorghum Hollow, 180
 South Bend, 121
 South Haven, 222
 South Side, 63, 166
 Spangenberg, 218
 Sparks, 36, 181, 219, 236, 238
 Sparks East, 238
 Sparks West, 238
 Spaulding South, 224
 Spencer, 53, 161
 Sperling, 164, 233
 Sperling South, 164, 233
 Spies, 185
 Spivey-Grabs, 36, 163, 168, 233, 234
 S & S, 203
 Stadelman, 61, 150
 Stafford, 218
 Stafford County, 8, 18, 21, 24, 25, 49, 56, 58, 60, 61, 100, 210, 238
 Stange, 228
 Stanhope, 161
 Stanton County, 21, 38, 49, 57, 101, 219, 238
 Stark, 190, 237
 Starr, 143
 State, 137
 Stayton, 137
 Stayton South, 137
 Steele, 228
 "Steimel," 139
 Steinhoff, 127
 Stephenson, 228
 Sterling, 192, 195, 237
 Stevens, 38, 176, 235
 Stevens County, 21, 33, 36, 49, 57, 63, 102, 239
 Stevens West, 235
 Stewart, 153
 Stiles, 121
 Stockrange, 150
 Stockton, 199
 Stohrville, 163
 Stoltzenberg, 152, 233
 Stony Point, 55, 187
 Stoops, 190
 Strahm, 181
 Strahm East, 181
 Strecker, 203
 Strobel, 218
 Strobel Northwest, 218
 Stroud, 192
 Stroud South, 55, 192
 "Stryker," 227
 Studley, 209
 Studley South, 56, 209
 Studley Southeast, 209
 Studley Southwest, 209
 Stumph, 113, 230
 Sturgeon, 141
 Stuttgart, 187
 Stuttgart South, 187
 Subera, 222
 Sugarloaf, 150
 Sugarloaf Southeast, 150

Sumner County, 16, 18, 21, 24, 49, 57, 60,
102, 219, 239
Sun City, 113
Sunnydale, 150
Sunny Slope, 224
Sunny Slope Northwest, 224
Sunny Valley, 121
Sunny Valley Northeast, 121
Sutton, 218
Swank, 159
Sweeney, 186, 236
Sweeney Southwest, 186
Sweeney West, 186
Sweet William, 150
Sweet William Northwest, 150
Swenson, 205
Syms Southeast, 218

Taloga, 30, 36, 181, 236
Taloga Northeast, 181
Tatlock, 190
Tatlock Southwest, 190, 237
Taylor, 218
Taylor Northeast, 218
Taylorville, 218
Taylor West, 57, 218
Teeter, 128, 161
Teichgraber, 162
Templing, 121
"Thayer," 183
Thiessen, 54, 235
Thirty-one, 208, 238
Thomas County, 21, 49, 58, 104, 223
Thrall-Aagard, 162
Three Mile Creek, 181
Three Mile Creek South, 181
Three Star, 208, 238
Thurlow, 137
Tisdale, 232
Tonovay, 162
Toronto, 162, 228
Toulon, 150
Toulon South, 150
Toulon Southeast, 150
Toulon Southwest, 59, 150
Towanda, 127
Traffas, 231
Trapp, 25, 121, 204
Trees, 137, 232
Trego County, 21, 49, 58, 60, 105, 223
Trekell, 57, 222
Trent, 183
Trenton, 168, 234
Trenton South, 168
Trico, 150, 159, 199, 224
Trousedale, 141, 232
Trousedale North, 141
Trousedale Northeast, 141
Trousedale South, 169, 232
Tucker, 162
Turkey Creek, 61, 113, 231
Turkey Creek East, 113
Turkey Creek North, 61, 113
Turkville, 150
Turkville West, 52, 150
Turner, 137
Turner West, 137, 232
Tuttle, 232
Tuttle West, 131, 232
Tyro, 180

Ubert, 150
Ubert North, 150
Ubert Northwest, 150
Udall, 137
Ulmer, 56, 58, 207
Ulmer South, 56, 207
Ulysses, 13, 36, 53, 63, 233
Unger, 175

Union, 237
Union East, 195
Unruh, 39, 121, 231
Unruh South, 50, 121
Urbana, 183

Valeda, 170, 234
Valley, 166
Valley Center, 207
Val Verde, 222
Van, 159
Van Dyke, 55, 187
"Van Lieu," 238
Van Vleet, 139
Van Winkle Southeast, 218
Vavroch, 51, 139
Veal, 236
Vermilion, 184
Vernon, 228, 239
Vesper, 159
Vesper North, 53, 159
Victoria North, 150
Vilas, 227
Virgil, 162
Virgil North, 132, 162, 228
Voda, 224
Vohs, 199
Vohs Northwest, 199
Vohs Southeast, 56, 199
Voight, 61, 121
Voils, 222
Volkland, 195
Voshell, 173

Wabauunsee County, 21, 49, 58, 60, 106, 224
Wagner, 150
Wakeeney, 224
Wakeeney East, 224
Waldschmidt, 137, 232
Walkemeyer, 14, 57, 239
Walker, 143
Wall, 233
Wallace County, 21, 49, 107, 239
Walnut Bend, 137
Walnut Bend North, 137
Walnut Southeast, 139
Walta, 57, 222
Walz, 224
Walz Northwest, 224
Wampler, 13, 52, 153
Ward, 237
Ware, 143
Warner, 139
Warren, 150
Washington County, 21, 49, 107
Waterman, 60, 191
Waters, 219
Waters East, 57, 219
Wauneta, 130
Wayne, 141
Wayside-Havana, 130, 180
Weathered, 137
Webb, 143
Webs, 201
Webs Northwest, 201
Webs Southwest, 201
Webster, 199
Wedel, 233
Weikert, 121
Weitzel, 201
Welch-Bornholdt, 173, 195
Welch-Mohr, 171
Welda North, 40
Welda South, 40
Wellington, 222, 239
Wellington Northeast, 222
Wells, 113, 231
Wellsford, 169, 234
Wendelburg, 219

- Wenger, 175
 Werner, 138, 232
 Werner-Robl, 122
 Werth, 150
 Wessel, 209
 Wessel North, 209
 West, 152
 West Branch, 164
 West Center, 14, 36, 57, 63, 239
 Westhusin, 199
 Wheat, 225
 Wheatland, 150
 Wheatland Northwest, 150
 Wheatland Southeast, 150
 Wheatland Southwest, 150
 Wheeler, 59, 159
 Whelan, 113, 231
 Whelan East, 113, 231
 Whelan Southwest, 113
 Whelan West, 113
 Wherry, 195
 Whisman, 199
 White, 55, 237
 White Cloud, 219
 White Cotton, 207
 Whitewater, 127
 Wichita, 207
 Wichita County, 49, 107, 225
 Wide Awake, 208, 238
 Widener, 219
 Wiebe, 50, 128
 Wieland, 166
 Wieland North, 53, 166
 Wiggam, 130
 Wiggins, 162
 Wil, 141, 219, 233
 Wilburton, 14, 36, 55, 236
 Wilhelm, 13, 55, 191
 Wilkens Southeast, 152
 Wilkerson, 162
 Willard, 162
 Williams, 199
 Williams North, 199
 Williams Northwest, 199
 Williams Southeast, 200
 Willowdale, 168
 Wilmington, 14, 58, 60, 225
 Wilmot-Floral, 138, 232
 Wilson County, 21, 34, 49, 225, 239
 Wil South, 62, 141
 Windholz, 150
 Windsor, 138
 Windsor Southeast, 138
 Windsor Southwest, 138
 Windy Ridge, 200
 Winfield, 138, 232
 Winfield South, 138
 Wingfield, 52, 154
 Winterscheid, 132, 162, 228
 Wisby, 192
 Wisby North, 192
 Wisby Northeast, 195
 Wisby South, 55, 192
 Wissman, 228
 Wokaty, 233
 Wolgamott, 113, 231
 Wondra North, 50, 122
 Woodbury, 225
 Woodson County, 21, 49, 227, 239
 Workman Northwest, 122
 Workman West, 122
 Worley, 59, 185
 Wusk, 222
 Wyandotte County, 21, 239
 Yaeger, 11, 12, 13, 56, 60, 195
 Yates Center, 229
 Yoder, 192, 237
 Yohe, 200
 Youk, 175
 Young, 128
 Younger, 150
 Younger South, 150
 Younger Southwest, 52, 150
 Youngmeyer, 143
 Younker, 52, 150
 Zebold, 162
 Zenith-Peace Creek, 192, 219, 237, 238
 Zimm, 52, 150
 Zimmerman, 162
 Zook, 187, 236
 Zuercher, 53, 163
 Zurich, 200
 Zurich Southwest, 200
 Zurich Townsite, 200
 Zyba, 222
 Zyba Southwest, 222

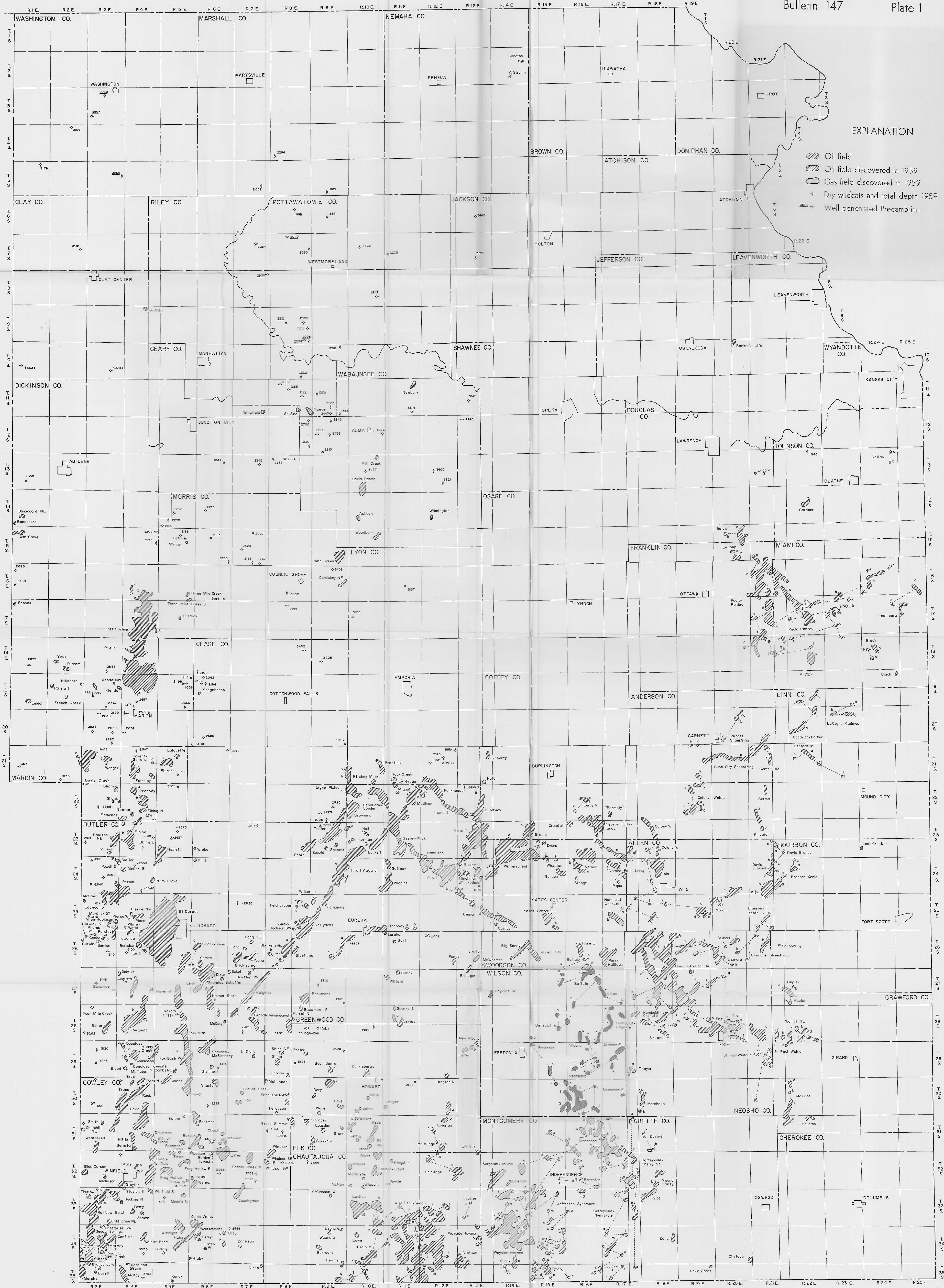
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Bulletin 147

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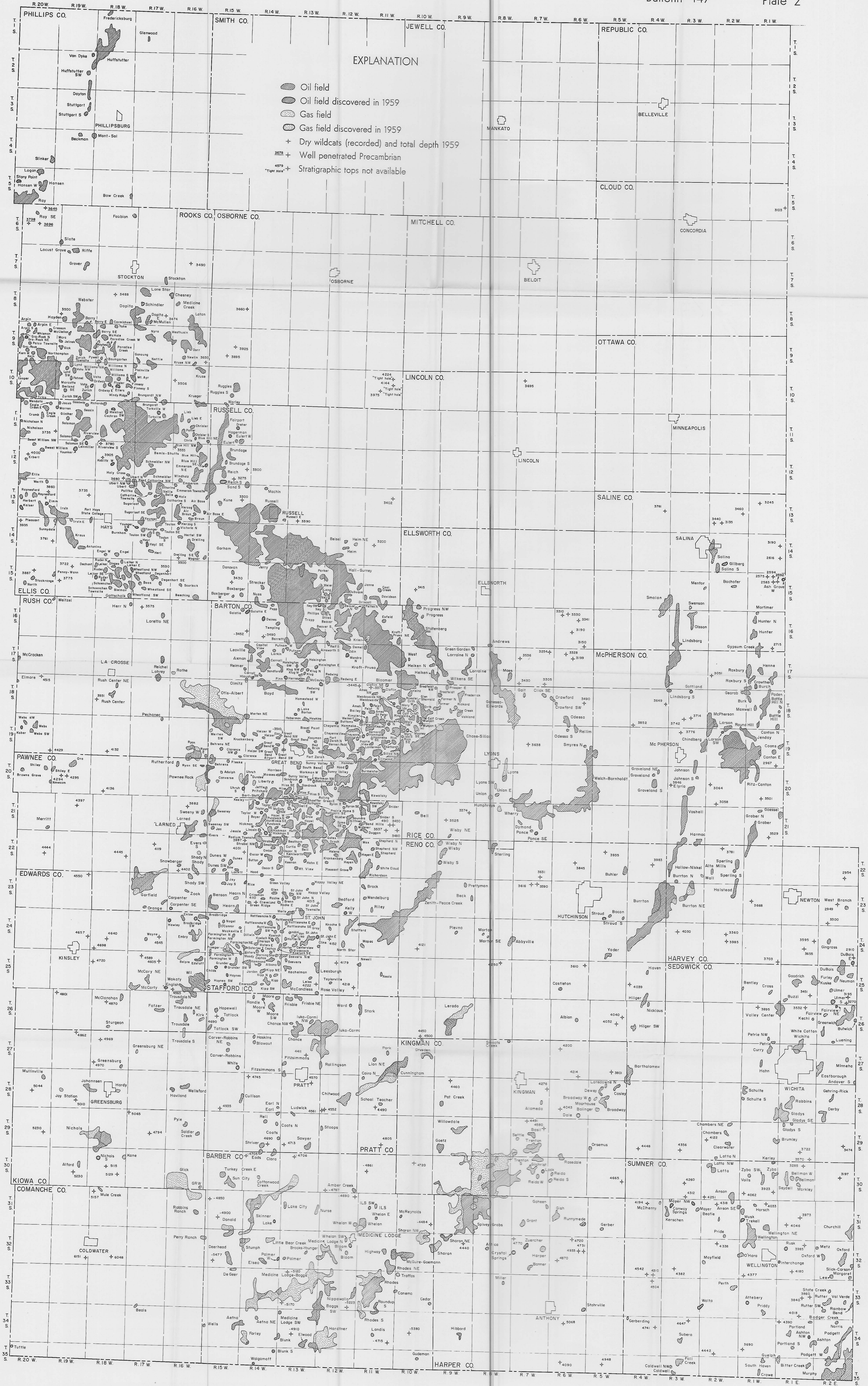
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Bulletin 147

Plate 2



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December 31, 1959

State Geological Survey of Kansas

Bulletin 147

Plate 3

