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Special Distribution Publication 16

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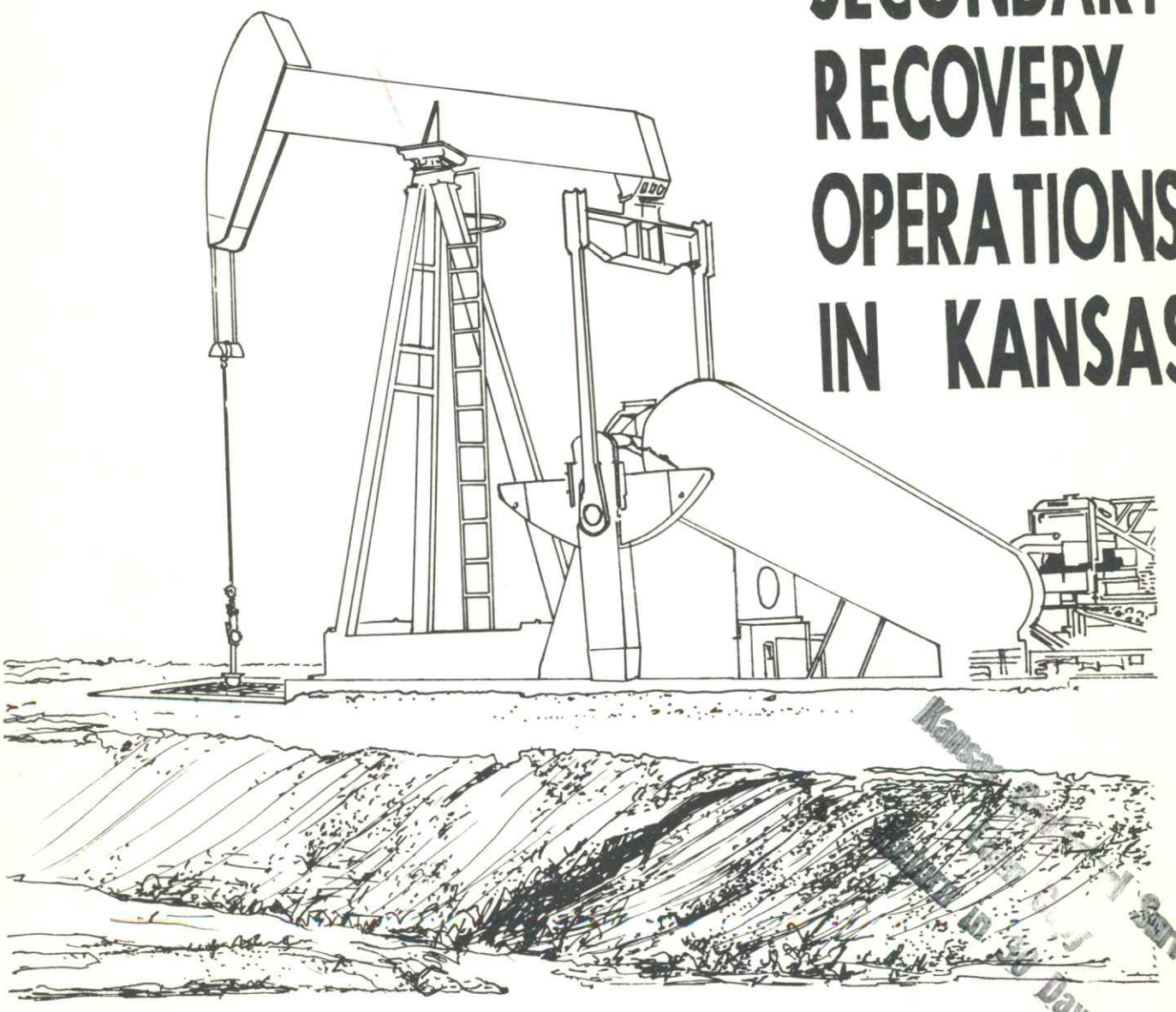
The University of Kansas, Lawrence, Kansas
1964

1963 SECONDARY RECOVERY OPERATIONS IN KANSAS



Kansas Geological Survey
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By
The Kansas Secondary Recovery and Pressure Maintenance Committee
E. D. Goebel and M. C. Colt, Co-Chairmen

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SUMMARY OF SECONDARY RECOVERY AND PRESSURE MAINTENANCE PROJECTS IN KANSAS DURING 1963

The Kansas Secondary Recovery and Pressure Maintenance Committee

E.D. Goebel and M.C. Colt, Co-Chairmen

INTRODUCTION

Data contained in this survey have been assembled through the efforts of the Conservation Division of the Kansas Corporation Commission in cooperation with the Kansas Geological Survey. The state Secondary Recovery and Pressure Maintenance Committee appointed to assist in the accumulation and interpretation of information relative to projects in Kansas was extremely helpful.

In recent years, secondary recovery and pressure maintenance projects in Kansas have contributed an increasingly larger portion of the total annual crude oil produced in Kansas. This trend has been observed also in other oil-producing states. Because of the increasing importance of oil production from such projects in each state's oil economy and in the interest of conservation, the Interstate Oil Compact Commission, through its Secondary Recovery and Pressure Maintenance Committee, has encouraged the collection and distribution of information pertaining thereto. The amount of oil attributable to secondary recovery or pressure maintenance methods can be determined only by the judgment of the individual operator. For this reason, it is necessary each year to survey all active projects and all operators holding secondary recovery permits in Kansas.

The committee wishes to thank the operators for the good response to the 1963 survey. It is hoped that the response to questionnaires in succeeding years will be even better, as the value of the survey to the petroleum industry improves with the completeness of the data available.

ACKNOWLEDGEMENT

Any attempt to completely and adequately credit all who helped in gathering, compiling and publishing these data would be only partially successful. Special thanks are extended, however, to Douglas L. Beene, Robert L. Dilts, and S. S. Greider who spent many hours in expediting the survey of projects to and through the publication stage. Mention must also be made of the tireless attention given to the typing of the data into publication form by Mrs. Jo Anne Crossfield and Mrs. Donna Saile.

THE 1963 SECONDARY RECOVERY AND PRESSURE MAINTENANCE SURVEY

The data resulting from the 1963 survey of secondary recovery and pressure maintenance projects from 53 Kansas counties are presented in Table 1 (10 sheets in pocket). County totals and a key to the various abbreviations and coding used are presented on sheet 10.

An index map showing the general location and extent of the Kansas oil and gas fields and the locations of the Kansas Counties is presented in Figure 1.

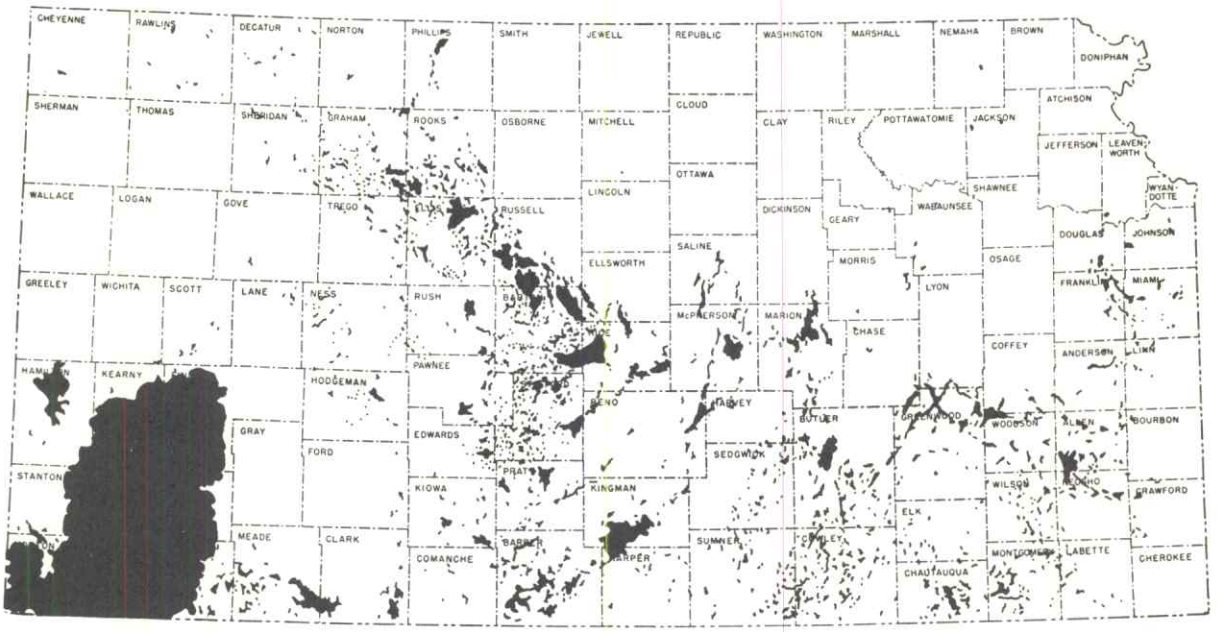

Figure 1. Index map of Kansas oil and gas fields.

Detailed total production statistics including production attributable to repressuring or pressure maintenance programs for all Kansas oil and gas fields are given in Oil and Gas Developments in Kansas During 1963 (Bulletin 172, Kansas Geological Survey). A map of Kansas (1"=500,000') on which the oil and gas fields are named and located is given in Plate 1 of Bulletin 172. The locations of pipelines and allied petroleum industries in Kansas also are available in map form at the same scale (M-2, Kansas Geological Survey, 1963).

The data in Table 1 were taken directly from the questionnaires with few editorial changes. Field names were checked (using legal description supplied by operator) and changed only where necessary to conform to the official name as recognized by the Nomenclature Committee of the Kansas Geological Society. These field names are used in Bulletin 172 and all other publications of the Oil and Gas Division of the State Geological Survey, and allow for reliable cross-reference. In order to arrive at totals on production of oil and water injection it was necessary to convert some replies from barrels per day to yearly figures. Location errors were corrected using other records.

The 1962 Secondary Recovery Report (Special Distribution Publication 6, Kansas Geological Survey) had 940 projects listed. Of this total 130 represented multiple order numbers and 33 were abandoned projects, so 777 projects actually reported of which 256 either reported no oil production attributable to secondary recovery or left the question blank. Therefore, only 521 projects reported oil production from secondary recovery or pressure maintenance methods during 1962.

Table 1 of this report presents the answers to questions submitted to the Kansas operators concerning their projects during 1963. Of the 811 projects listed, 157 gave no answers, or reported "none" to the question of oil production attributable to the application of secondary recovery or pressure maintenance methods during 1963. These non-respondents include many operations initiated during 1963. The 1963 survey was more complete than the 1962 survey. A total of 10,485 active producing wells accounted for more than 18,214,000 barrels of oil from the 654 projects (about 5 barrels per well per day). The 18.2 million barrels of oil reported attributable to secondary recovery and pressure maintenance projects does not necessarily represent the total amount of oil in that category in Kansas because of an estimated 90 percent complete survey, because of some non-respondents to certain questions, and because of some non-surveyed operators who reaped additional oil production through fringe locations to active projects. It is estimated that a total of 21.6 million barrels of oil was produced because of application of secondary recovery and pressure maintenance methods during 1963.

There were 6,357 active injection wells (sheet 10) reported during 1963. Through these wells was injected more than 261.8 million barrels of water of various types. This represents more than twice the volume of all oil produced (primary and secondary) in Kansas during 1963. Cumulative oil production from these active projects totals more than 161 million barrels and water injection more than 1.8 billion barrels. Kansas repressuring and pressure maintenance projects extend over more than 187,000 acres of land.

Among Kansas counties, Butler County had the most oil reported from projects -- approximately 2.9 million barrels from 1,070 wells. Cowley, Greenwood, and Russell counties each had more than 1 million barrels of oil attributed to their projects.

It is anticipated that surveys similar to the one made in 1963 will be conducted annually by the Kansas Secondary Recovery and Pressure Maintenance Committee, aided by the Kansas Corporation Commission's Conservation Division and the Kansas Geological Survey. Attempts will be made to fill in voids in information to the extent that future surveys will be more and more complete and thus more reliable as an index to secondary recovery and pressure maintenance activities.

GENERAL SECONDARY RECOVERY AND PRESSURE MAINTENANCE INFORMATION

In Kansas, many oil reservoirs are inefficiently produced by the primary sources of energy inherent to the reservoir, usually gas expansion, and a secondary means of furnishing energy to move the oil to the wellbore must be provided. In most oil reservoirs it is possible, when the natural energy and production rate have declined, to bring about an increased rate of oil production by injection of either gas or water into the reservoir. If such injection takes place while the reservoir pressure is high and the producing wells are in the flowing stage, the operation is classified as pressure maintenance. If it is started after the pressure has been substantially depleted and the field is in the pumping stage, it is classified as secondary recovery, repressuring, or water-flooding. Only the operators of an oil field can make the judgment as to when a field's oil production rate has been affected by the application of secondary recovery or pressure maintenance methods.

Repressuring of oil-bearing rocks by injection of water, air, gas, or a combination of these agents, has become a principal method of oil production in Kansas since this practice was sanctioned by state law in 1935. The first recorded repressuring project was done by the York State Oil Company in the Seeley pool (now Seeley-Wick) of northern Greenwood County in May, 1935. The significance of secondary recovery activities in the state is shown by the fact that such production has risen from an estimated 7 million barrels in 1949 to 21.6 million barrels in 1963, or about 19.8 percent of the total annual production.

The general rules and regulations for the conservation of crude oil and natural gas in Kansas issued by the State Corporation Commission have specific sections dealing with the application, approval, operation, and discontinuance of fluid repressuring and water-flooding of oil and gas properties. Applications for permanent disposal of brines produced from oil and gas fields also comes under the jurisdiction of the Conservation Division. The permanent disposal of brines differs from water-flooding or secondary recovery operations in that disposal is in other than the producing zones (oil and gas reservoirs).

During 1963, the Conservation Division of the State Corporation Commission issued 72 permits for secondary recovery operations, half the number of permits issued during 1962. Of these 72 permits issued, some were to new projects but some were to extensions of former projects. A listing by operators and projects is given in Table 11 of Kansas Geological Survey Bulletin 172. In recent years, a number of new applications for repressuring and for extensions of secondary recovery projects have been filed, and each succeeding year has found a larger share of the annual crude oil production credited to secondary recovery projects. These trends will continue, no doubt (Figure 2,3).

The American Petroleum Institute's proved reserves figures (Kansas, 1963, had an estimated 841 million barrels of oil in reserves) do not include a field's secondary reserves unless an injection program is underway. As of January, 1962, the Interstate Oil Compact Commission

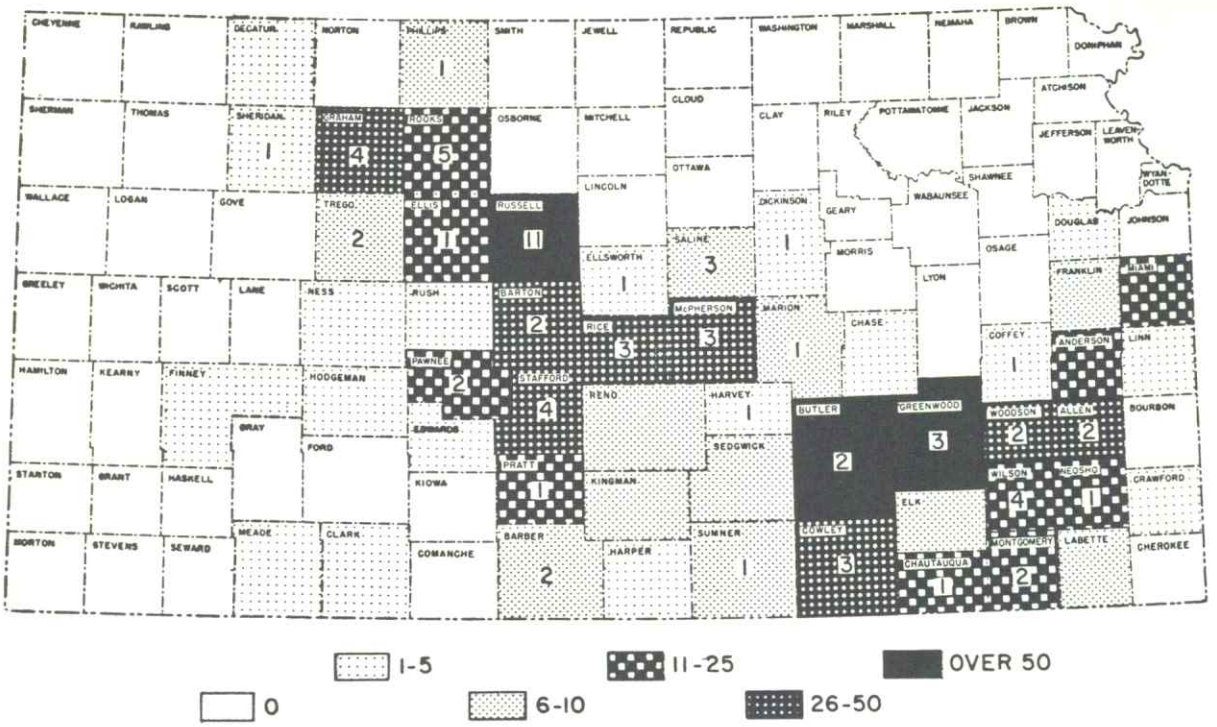

Figure 2. Secondary recovery permits issued (numbers) during 1963, compared to total active projects reported, 1962 (patterns).

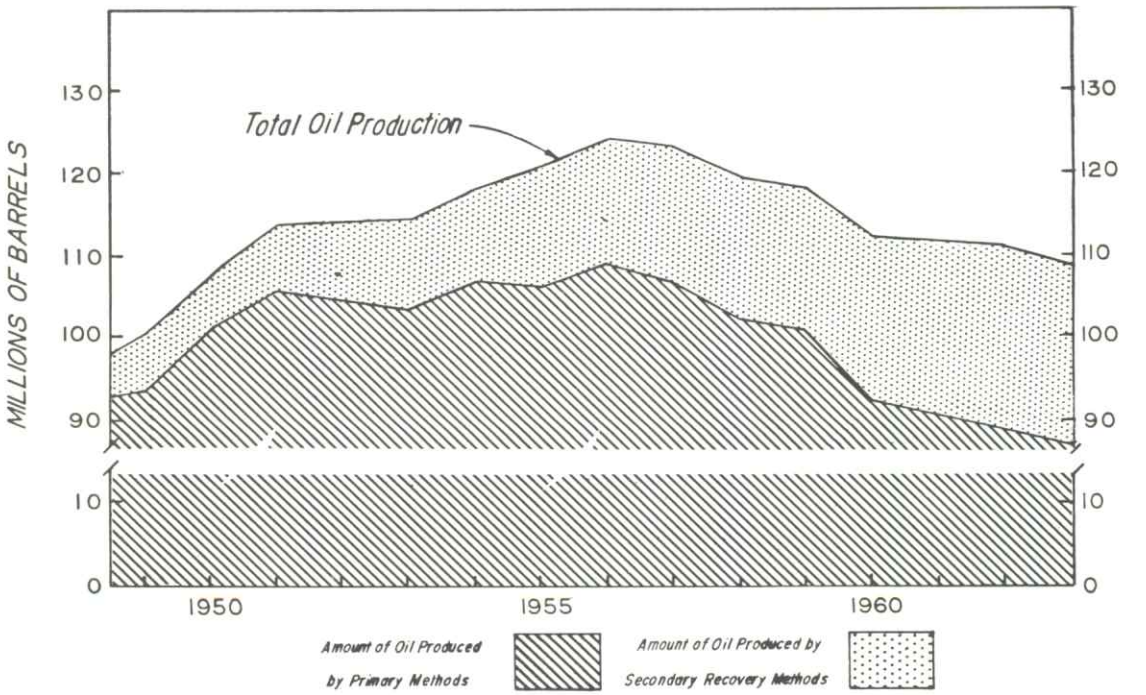

Figure 3. Comparison of oil produced by secondary recovery methods in Kansas to total oil production, 1949-1963.

reported 16,150 million barrels of oil originally in place, of which 110 million were appraised as economically recoverable by gas and water injection projects, and 1,500 million barrels reserves physically recoverable by newer methods.

The following zones (listed in order of their importance) provide most of the oil produced by secondary recovery methods in Kansas: "Bartlesville sand", Lansing (Pennsylvanian), and Mississippian rocks.

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

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

The fire-flood method (in situ combustion) is particularly applicable to low-gravity oil, and early estimates indicate that 50 to 80 percent of the oil originally in place may be recovered. Some key factors in the operation of a combustion project are the amount of air required, the rate of air injection, and the air injection pressure. The combustion method was used in a Kansas pilot project (now completed) started by Sinclair Oil and Gas Company in 1956 and located in the Humboldt-Chanute field in Allen County.

Layton Oil Company started a fire-flood in Allen County, in the Iola field, during 1963. It is believed that several other combustion projects are planned by operators in the eastern Kansas area of low-gravity crude oils. Other types of secondary recovery methods, such as injecting carbon dioxide and steam-flooding, have been attempted in the past. Some of these methods are presently being used and more are in the planning stage. These projects have not been successful in the past due to insufficient technology, underfinancing, poor reservoir characteristics and various other factors. As technology advances, this area in eastern Kansas is certain to become subject to new methods in an attempt to extract these reserves.

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Oil and Gas Developments in Kansas During 1963; Kansas Geological Survey, Bull. 172, Hilpman, P. L., Oros, M. O., Beene, D. L., Goebel, E. D., (1964)

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Map of Oil and Gas Pipelines and Industries in Kansas. Scale 1:500,000 (1 inch = about 8 mi.), (1963), Map No. M-2

Producing Zones of Kansas Oil and Gas Fields; Kansas Geological Survey Oil and Gas Investigations No. 16, Hilpman, P. L., (1958), Maps

Underground Storage of Natural Gas in Kansas; Kansas Geological Survey Oil and Gas Investigations No. 21, Jewett, J. M., Goebel, E. D., (1960)

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FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS		NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED		PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS				DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS				WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls)		TO END OF 1963 (CUMULATIVE, Bbls)		ADDITIONAL INFORMATION
			Comm. No.	Consv. No.				Current	Add.				Active	Inact.	Drld.	Abd.		Active	Inact.	Drld.	Abd.								WATER INJECTED	OIL PRODUCED	WATER INJECTED	OIL PRODUCED	
BUTLER Cont.																																
Towanda	Kewanee Oil Company	Rice-Wait	47367	4029	Rice, Wait	5-26-4E	P	*	0	Viola	2,445	127	10	0	0	0	1954	4	1	0	0	Irreg.	180	1,005	Prod		U	Wat	41	1,466,422	0	11,278,181	0	*Viola 153, Simpson 109
										Simp	2,476	98	6																			
Towanda	Kewanee Oil Company	Rice-Wait	58199	6580	Rice, Wait	5-26-4E	P*	30	0	KC Group	2,110	6	2	0	0	0	1958	0	1	0	0	Irreg.	0	0	Prod		U	S Gas	41	0	0	58,363	0	*Shut-in
Young	Okmar Oil Company	Young	44299	3258	Willhite, Young A, Young B	27-26-7E	P	120	30	KC Group	2,140	37	4	1	0	---	1952	2	0	0	0	Irreg.	400	330	Prod		T	S Gas	34	244,000	9,000	x	x	
Total Butler County								17,483	4,477				1,070	66	33	89		857	21	22	59								80,687,275	2,965,511	453,253,945	36,009,875	
BUTLER-COWLEY																																
Combs	Kewanee Oil Company	Dillard Water-flood	47366	4028	Combs, Gibson, Maud, Zink	33-29-5E;4,5-30-5E	W	239	0	Bartl	2,833	23	11	3	1	0	1954	8	2	0	0	Irreg.	380	153	Sh Grav	350	F	S Gas	40	390,364	11,886	4,379,714	156,035	
BUTLER-MARION																																
Elbing	Bayes Oil Company	No. 1	56794	6185	Doornbos, Hawk	33-22-4E;3-23-4E	D	320	480	KC Group	2,000	45	3	x	x	x	----	2	x	x	x	5-spot	0	45	Prod	x	U	Grav	32	8,000	1,750	40,000	10,500	
CHASE COUNTY																																
Teeter	Sunray DX Oil Company	Leedy	57314	6331	Leedy	25-22-9E	D	240	0	Bartl	2,530	20	7	1	0	0	1960	1	1	0	0	Irreg.	300	260	Prod	---	U	S Gas	40	97,200	11,810	395,999	38,500	
CHAUTAUQUA COUNTY																																
Hale-Inge	Hutton & McGill	Vestal Lease	---	---	Vestal	8-32-12E	P	80	160	New Albany	700	15	5	0	1	0	1963	1	0	1	0	Irreg.	400	40		---	U	Grav	28	6,000	0	6,000	0	
Landon-Floyd	L. W. Drennen et al	Shaffer A & E	69543	95837	Shaffer A & E	23-32-10E	D	60	40	Missi	1,975	10	3	1	0	0	1962	1	0	0	0	Irreg.	---	90	Prod		U	*	31	32,850	0	32,850	0	*None
Landon-Floyd	Patteson Bros.		67504	---	Shaffer	14,23-32-10E	D	220	80	Missi	1,950	8	6	1	---	---	1962	1	---	---	---	Irreg.	0	275	Prod		U	*	31	100,000	0	173,000	0	
Landon-Floyd	Paul E. Steinberger	Hyder Field	380923	---	Guier, Hyder, Stough	5-35-13E	P	250	100	Redd	690	15	20	2	0	0	1941	10	2	0	0	5-spot	200	5	Salt Sd	350	U	S Gas	34	10,000	3,500	300,000	74,000	
Niotaze	Brooks Dickens	Brinkman	---	---	Brinkman	6-34-12E	D	80	20	Peru	1,125	35	5	0	0	0	1960	2	0	0	0	Irreg.	0	20	Prod	---	U	Grav	33	14,600	300	200,000	1,825	
Peru-Sedan	Brooks Dickens	Henry Schoel-lkoph	---	---	Schoellkoph	27-33-11E	P	40	80	Peru	1,230	40	9	0	0	0	1957	2	0	0	0	*	200	40	Prod	---	U	Grav	33	14,600	450	43,800	2,555	*Irreg. + 5-spot
Peru-Sedan	Brooks Dickens	Wall-Casement	---	---	Wall-Casement	33-33-11E	P	80	80	Peru	1,250	35	7	0	0	0	1956	2	1	0	1	*	100	50	Prod	---	U	Grav	32	36,500	400	300,000	2,920	*Irreg. + 5-spot
Peru-Sedan	Roy A. Burt D.B.A. Burlington Oil Co.	Henry Gardner	*	---	Henry Gardner	26-33-11E	D	160	0	Peru	1,100	25	6	0	0	0	1953	2	0	0	0	Irreg.	**	5	Prod	---	M	Grav	33	x	x	x	x	*36-01-28; **Gravity
Peru-Sedan	Jones Bros. Oil Co.	Big Turner Lease	---	6132	Big Turner	3-35-12E	D	40	0	Peru	925	20	2	0	0	0	1958	1	0	0	0	5-spot	0	1	Prod	---	U	Grav	32	800	180	5,000	2,000	
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	---	58	Stafford	9-34-12E	P	90	0	Peru	1,027	36	13	0	0	0	1955	2	3	0	0	Irreg.	350	108	Salt Sd	450	U	S Gas	36	78,902	8,509	356,995	57,444	
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	---	139	D. J. Moore	3-34-11E	P	35	0	Peru	1,073	16	10	6	0	0	1955	1	1	0	0	Irreg.	350	0	Salt Sd	450	U	S Gas	36	0	2,713	21,282	8,682	
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	---	227	Brooks, Hazelton, Hills	28-34-12E	P	115	0	Peru	1,020	20	20	1	0	0	1955	4	5	0	0	Irreg.	350	78	Salt Sd	450	U	S Gas	36	113,723	10,936	403,166	76,232	
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	---	289*	Blundell, Spurlock	36-34-11E	P	25	0	Peru	1,159	26	8	5	0	0	1955	2	3	0	0	Irreg.	0	0	Salt Sd	450	U	S Gas	36	0	1,326	163,460	3,970	*15
Peru-Sedan	Little Nick Oil Company	Sedan-Peru	14534*	330*	John Davis, Huffman "A", South Huffman, J.N. Paxton, W.A. Van Leuvan	14,15,16,22, 23-34-11E	P	320	0	Peru	1,051	30	18	20	0	0	1955	4	13	0	0	Irreg.	350	63	Salt Sd	450	U	S Gas	36	90,726	6,508	742,010	52,112	*39; 36-01-29,35-09-20,36-01-27-B
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	62838*	341*	J.C. Conley, Michel De Arnond, Haney and Johnston, C.H. Ingle-field, N.T. Kiefer, J.A. Lowe, H.W. Moore, G.B. Oakes, C.C. Poor Farm	10,15,22-34-12E	P	525	0	Peru	984	21	64	14	1	0	1955	15	18	0	0	Irreg.	350	44	Salt Sd	450	U	S Gas	36	293,439	47,375	1,211,104	312,467	*14534, 7756, 37-01-30-A,36-08-17
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	20725*	426*	Brent, J. Gregg, Wadsworth	15,22,23, 27-33-11E	P	520	0	Peru	1,220	40	44	9	1	6	1955	5	14	0	0	Irreg.	350	60	Salt Sd	450	U	S Gas	36	109,214	9,539	627,113	88,455	*14534, 383; 30716, 1473; 36-08-19,36-01-29-C,37-02-27, 25297, 793
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	14354*	388*	Peru Farm, Swallows	31-33-12E 6-34-12E	P	350	0	Peru	980	38	35	3	0	0	1955	3	13	0	0	Irreg.	350	36	Salt Sd	450	U	S Gas	36	38,926	11,680	248,917	46,286	*33-11-16-A,35-11-13-C; 14534
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	19963*	402	G. Bowen, I.J. Cleek, H.C. Ewers, A.L. Hartzell, R.M. Hartzell, Wm. Neff, J. Rogers, E. Winchell	24-34-11E;19,20,29,30 31-34-12E	P	640	0	Peru	1,055	15	59	13	1	0	1955	11	29	0	0	Irreg.	350	439	Salt Sd	450	U	S Gas	36	176,325	26,986	1,202,140	290,406	*14534; 36-01-27-C,36-04-14,35-09-20-A,36-01-29-A
Peru-Sedan	Little Nick Oil Company	Peru-Sedan	56121*	5925*	Alan Casement, Albert Casement, Charles Casement	29,32,33-33-11E 5-34-11E	P	300	0	Peru	1,187	138	21	28	0	2	1955	3	11	0	3	Irreg.	350	77	Salt Sd	450	U	S Gas	36	84,436	16,802	1,688,848	141,718	*27263, 1029; 21224, 442; 14534, C-40; C-22; 37-10-09-A,36-01-29-B
Peru-Sedan	The Star Producers, Inc.	Jobe Sedan Field-Peru Field	---	7945	Jobe	8-34-12E	W	5	80	Weiser	1,007	9	2	0	0	0	1961	1	0	0	0	5-spot	140	20	Prod + Salt Sd	700	U	Grav	36	8,640	360	16,740	1,080	36-01-27-A,36-01-29-D
Total Chautauqua County								3,935	640				357	103	4	8		73	113	1	4								1,209,681	147,562	7,742,425	1,162,152	
CLARK COUNTY																																
Harper Ranch	Ashland Oil & Refining Company	Harper Ranch Unit	66355	8773	J.C. Harper & Nell Harper	33,34-33-21W;3,4-34-21W	W	1,680	0	Morrow	5,400	10	13	0	0	0	1962	4	0	0	0	Irreg.	750	206	Sh Grav	100	M	S Gas	37	376,570	27,890	764,855	27,890	
Harper Ranch	The Pure Oil Company	Harper Ranch	58776	---	J.C. Harper "A", K.C. Harper	2,11-34-21W	W	325	0	Morrow	5,487	9	7	0	0	0	1959	3	0	0	2	Line	0	500	Sh Sd	100	M	S Gas	37	264,191	85,383	1,283,747	294,619	
Total Clark County								2,005	0				20	0	0	0		7	0	0	2								640,761	113,273	2,058,602	322,509	
COFFEY COUNTY																																
Dunaway	Vannocker & Aikman	Isch Lease	---	---	Isch	11-22-13E	D	160	0	Burgess	1,790	12	3	0	1	0	1963	1	1	0	0	Line	*	100	Prod		M	Grav	39	27,000	1,350	27,000	1,350	*Gravity
Virgil North	French Oil Company	Olinger	55869	5835	Olinger	14-23-13E	W	80	0	Missi	1,800	14	5	0	0	0	----	1	0	0	0	Line	150	x	Prod		T	Wat	38	x	3,216	x	x	
Virgil North	French Oil Company		---	202	T.H. Olinger "B"	14-23-13E	W	60	0	Missi	1,800	6	4	0	0	0	-----	0	0	0	0	Line	60	150			T	Wat	34	x	3,216	x	x	
Virgil North	Kelly Oil Company		---	199	S.P. Kelly	14-23-13E	W	140	0	Missi	1,800	11	11	0	0	0	-----	---	0	0	0	Line	100	300	Prod		T	Wat	34	0	6,375	0	0	
Virgil North	Kelly Oil Company	Sunray	---	475	Kelly	14-23-13E	W	160	0	Missi	1,800	18	11	0	0	0	x	---	0	0	0	Line	150	x	Prod		T	Wat	39	x	6,375	x	x	
Virgil North	Kelly Oil Company		---	5835	Dlinger	14-23-13E	W	60	20	Missi	1,800	6	5	0	0	0	-----	---	0	0	0	Line	60	200	Prod		T	Wat	34	x	1,960	x	x	
Winterscheid	French Oil Company	Pilcher	55068	5633	Pilcher	16-23-14E	W	40	---	Missi	1,700	10	2	0	0	0	x	1	0	0	0	Line	150	x	Prod		T	Wat	38	x	1,416	x	x	
Winterscheid	French Oil Company		---	5633	Pilcher	16-23-14E	W	40	0	Missi	1,700	7	2	0	0	0	----	---	0	0	0	Line	*	125	Prod		T	Wat	34	x	1,416	x	x	*Vacuum
Total Coffey County								740	20				43	0	1	0		3	1	0	0								27,000	25,324	27,000	1,350	
COFFEY-WOODSON																																
Neosho Falls-Leroy	Susmio Oil Company	Neosho Falls Flood Unit	42166	2863	Maynard, Murray, Remlinger, Wolfe	13,24-23-16E	W	80	x	Squirrel	940	12	15	1	0	0	1952	12	0	0	0	5-spot	400	22	Prod + KC Group	350	U	S Gas	26	96,487	11,687	988,824	262,296	
Virgil North	Sunray DX Oil Company	C. Bahr-J. Bahr Waterflood	66297	8745	C. Bahr, J. Bahr	14,23-23-13E	W	140	180	Missi	1,700	125	8	3	0	0	1961	5	2	0	0	Irreg.	300	150	Prod		T	S Gas	39	278,000	18,212	551,846	45,600	
Total Coffey-Woodson Counties								220	180				23	4	0	0		17	2	0	0								374,487	29,899	1,540,670	307,896	
COWLEY COUNTY																																
Biddle	Stewart Oil Company	Biddle NW Unit	54803*	5563*	Defore-Roberts, Hawkins, Holt, Long A-B, Morris	36-31-4E;31-31-5E 1-32-4E;6-32-5E	W	180	300	Cattleman	2,950	20	13	7	0	0	1957	3	3	0	0	Line	780	700	Staln	1,900	U	S Gas	40	724,449	26,780	2,499,193	776,670	*61346, 7358
Biddle	Texaco Inc.	B. R. Morris	61771	7490	B.R. Morris	1-32-4E	*	20	---	Cattleman	2,900	10	1	1	x	x	1961	0	0	x	x	---	---	---			S Gas	40	---	8,929	---	19,426	*Offset Injection
Bolack	James A. Lewis Engineering, Inc.	Bolack	70256	9844	Bolack, Briscoe	20,21-32-6E	W	200	0	Bartl	2,875	16	5	0	0	0	1963	2	0	0	0	Perip.	50	450	Prod + Staln	1,900	U	S Gas	40	231,754	57,286	231,754	57,286	
Burden	Texaco Inc.	Burden Unit	69556	9593		19,20,29,30,31-31-6E	W	960	---	Bartl	2,950	30	15	---	---	---	1963	10	---	---	---	5-spot	200	400	Staln		U	S Gas	38	1,468,728	8,561	1,468,728	8,561	
Burden	Texaco Inc.	East Burden Unit	60998	7293		32,33-31-6E	W	420	---	Layton	2,230	18	9	6	---	---	1959	11	---	---	---	Perip.	3	---	Staln	1,850	U	Wat	40	330,121	22,251	3,913,946	72,740	
Couch	CRA, Inc.	West Couch Unit	52219	4999	Kennedy, Marble Savings Bank, F. Sandstrum, J. Sandstrum	11,12,13,14-30-5E	W	200	0	Bartl	2,850	17	7	5	0	2	1956	8	2	0	2	5-spot	360	159	Prod		T	S Gas	40	464,195	6,697	1,365,405	131,680	
David	Colorado Oil & Gas Corp.	David	60802	7245	David	2-31-4E	W	70	0	Bartl	2,950	20	4	0	0	0	1959	3	0	0	0	5-spot	1,000	535	Prod + Staln	1,950	U	Inact Wat	40	208,395	19,273	654,729	124,072	
David	James A. Lewis Engineering, Inc.	David Field	60246	7111	Carper, W. Cloud, V. David, R. Hanna, Huston, F. Kelley,*	1,2,3,10,11,12-31-4E	W	1,250	0	Bartl	3,000	18	52	3	0	8	1959	53	2	0	5	5-spot	1,000	150	Prod + Staln	2,000	U	S Gas	40	2,727,880	266,455	9,271,163	1,496,718	*V. King "A", V. King "B", F. Lewis, G. O'Hara "A", L.S. O'Hara "B", J. Sherwood "A", J. Sherwood "B", I. Watt "A", I. Watt "B"
David	Sohio Petroleum Company	North David Unit	63767	8007		25,26,35-30-4E	W	273	0	Bartl	2,975	18	13	2	0	0	1960	9	0	0	0	Irreg.	900	210	Prod + Staln	1,950	T	S Gas	41	693,896	174,326	2,257,612	397,975	
David	Texaco Inc.	J. H. David	---	---	J.H. David	2-31-4E	*	30	---	Bartl	2,950	15	1	---	---	1	1959	---	---	---	---		---	---			---	S Gas	39	0	3,828	0	8,016	*Offset Injection
David	Texaco Inc.	R. A. Watt Coop.	60813	7250	R.A. Watt	10-31-4E	W	160	---	Bartl	2,940	15	7	---	---	---	1959	8	---	---	---	5-spot	1,470	125	Staln	1,990	U	S Gas	40	373,047	20,336	1,286,253	92,257	
Deichman	Union Texas Petroleum	Deichman Waterflood	53327	5269	Deichman, C. Deichman, W. Franks, H.A. Miller	23,24-31-4E	W	350	0	Bartl	2,980	25	6	6	0	6	1957	5	7	0	6	Perip.	200	830	Prod + Staln	1,900	U	S Gas	40	1,490,033	20,942	14,090,968	460,517	
Eastman	Texaco Inc.	Eastman Project	40337	2536		31-30-6E;6-31-6E	G	290	---	Bartl	2,850	14	10	4	---	---	1929	6	1	---	---	Irreg.	20	0*		---	S	Gas	37	x	13,599	x	1,139,092	*40,000 cu ft gas injected
Estes	Texaco Inc.	Estes Pool Project	51426	4908		1-32-6E	W	80	---	Layton	2,200	25	1	2	---	---	1960	2	---	---	---	Irreg.	0	160	Prod		U	S Gas	37	118,513	0	525,346	0	
Gibson	Aladdin Petroleum Corporation	Baird & Baird-Drennan	---	4337*	Baird, Baird-Drennan	29,32-34-3E	P	160	0	Bartl	3,360	30	14	1	0	0	1955	13	0	0	0	Irreg.	60	165	Prod + Layton	2,686	T	**	39	783,000	53,000	4,975,000	268,000	*C-4354 **pumping still primary method
Gibson	Texaco Inc.	Gibson North Unit	66904	8904		20,21,28,29-34-3E	W	400	---	Bartl	3,375	15	13	---	---	---	1962	13	---	---	---	5-spot	*	225	Staln	---	U	S Gas	36	1,074,299	5,951	1,614,357	5,951	*0-100
Gibson	Texaco Inc.	Gibson South Coop. Project	60550	7170		32-34-3E	---	230	---	Bartl	3,480	17	10	3	---	---	1959	10	1	---	---	5-spot	500	194	Prod + Staln	---	U		37	899,028	33,666	4,143,131	190,332	
Graham	Earl F. Wakefield	Boyles	---	8938	Boyles	11-33-3E	P	---	---	Bartl	3,275	15	5	0	0	0	1961	1	0	0	0	Irreg.	0	300	Prod + Bartl	3,275	U	*S Gas	39	109,500	11,896	300,030	146,728	*Plus water encroachment
Gueda Springs	Earl F. Wakefield	Hower	---	3549	Hower	32-33-3E	D	40	---	Bartl	3,300	34	1	0	0	0	1954	1	0	0	0	Perip.	0	150	Bartl	3,304	U	S Gas	39	54,730	2,736	400,250	29,988	
Harvey	John P. Booth		60415	7151	Berens, Bivens, Edgar, Palmer, Stevenson A & B	15,22,23-34-3E	W	396	0	Bartl	3,275	10	6	3	0	7	1960	3	0	0	2	Irreg.	150	100	Prod + Sh Grav	14	M	Wat	38	27,500	x	158,500	x	
Rahn	B. B. Blair	Rahn Unit	42103	2844		12,13-34-5E; 6,7-34-6E	W	200	0	Bartl	2,900	25	6	0	0	0	1951	4	0	0	0	Line	0	368	Prod + Penn	1,200	M	*	38	535,618	25,867	5,911,445	517,162	*Pumping wells
Rahn	B. B. Blair	Jesse Rahn	45251	3427	Jesse Rahn	13-34-5E	W	100	0	Bartl	2,900	28	3	0	0	0	1953	2	0	0	0	Line	0	373	Prod + Penn	1,200	M	*Grav	38	272,088	10,955	2,718,280	142,323	*Pumping wells
Rahn	Continental Oil Company	Rahn I	---	3368	E.S. Berry, E.W. Cox, J.W. Waldschmidt, M.K. Waldschmidt	32,33-33-6E; 5,6-34-6E	W	238	0	Bartl	2,870	16	6	1	0	0	1953	6	2	0	0	*	515	280	Prod		U	Grav	40	342,628	18,379	4,904,306	330,732	*Irreg.+ 5-spot
Rahn	Continental Oil Company	Rahn II	---	3313	O.T. Collier, J. Devore, J.C. Hankins, G. Rahn	14,22,23-34-5E	W	199	0	Bartl	3,079	16	4	2	0	0	1953	5	2	0	0	*	200	40	Prod		U	Grav	40	297,365	10,035	4,215,978	335,335	*Irreg.+ 5-spot
Rainbow Bend	Mead Production Company	Rainbow Bend Hunt Unit	---	3239	Julia Hunt	16-33-3E	W	50	80	Bartl	3,200	20	2	0	0	0	1952	1	1	0	0	Irreg.	0	120	Prod		U	Wat	41	43,800	11,073	1,510,800	223,926	
Rainbow Bend	Sunray DX Oil Company	Rainbow Bend Waterflood	42804	2999	T. Backus, W. Beebe, J. Glasgow, D. & L. Johnson, E. & R. Nelson, T. Snyder, A. & H. Thurlow, W. Wertman	17,20,21,29-33-3E	W	1,191	20	Bartl	3,200	30	18	14	0	0	1952	19	18	0	0	Irreg.	300	325	Prod		T	Wat	40	1,744,936	77,203	32,219,724	880,715	
Rainbow Bend	Wolfson Oil Company	J. U. Hunt Lease	60243	7108	E.E. Hunt, J.U. Hunt	16,21-33-3E	P	365	0	Bartl	3,200	25	1	0	0	0	1957	2	0	0	0	Irreg.	150	1,000	Prod		U	Wat	40	365,000	13,444	558,078	258,542	
Rock	CRA, Inc.	Rock Unit I	44991	3376	Joslin "A", Wilson "A", Wilson "B"	11,12-30-4E	W	120	0	Bartl	2,800	15	4	0	0	0	1952	2	2	0	1	Irreg.	600	165	Staln	1,888	T	S Gas	37	120,406	5,626	1,181,025	115,120	
Rock	CRA, Inc.	Rock Unit II	57707	6434	Boeger, Boeger "A", Davis, Joslin "A", Mabry	21-30-4E	W	360	0	Bartl	2,800	20	8	2	0	0	1953	5	0	0	0	Irreg.	900	418	Prod		T	S Gas	39	764,027	24,101	5,315,652	666,978	
Rock	CRA, Inc.	Rock Unit III	57708	6435	Dickinson, Morton, Mueller, Phelps, Sims, Woner, Youle	20,29,30,31,32-30-4E	W	170	0	Bartl	2,800	17	8	0	0	0	1955	9	0	0	0	Irreg.	1,000	146	Prod + Staln	1,911	T	S Gas	38	481,289	33,630	3,236,033	589,319	
Rock	James A. Lewis Engineering, Inc.	Clarke Field	58795	6772	F. C. Clarke	31-30-4E;6-31-4E	W	47	0	Bartl	2,850	12	3	0	0	0	1959	2	0	0	0	Irreg.	650	250	Prod + Staln	1,950	U	S Gas	40	184,474	15,625	771,984	78,288	
School Creek North	Helmerich & Payne, Inc.	Barger Lease, Waterflood #14	59718	---	Barger	3-32-7E	W	120	0	Layton	2,150	16	7	1	0	1	1959	4	1	0	1	Perip.	120	163	Staln	1,730	T	S Gas	40	238,170	10,621	1,259,915	52,797	
Shannon	James A. Lewis Engineering, Inc.	Shannon Unit	67482	9056	Bogner Est., C.L. Devore, C. Evans, C. Evans "A", Mary and P.L. Moore, P.L. Moore, F.J. Nelson, et al, Ray Ore,*	23,24,25,26,35-31-5E	P	1,300	0	Layton	2,360	11	24	30	0	4	1962	7	0	0	0	Perip.	450	900	Prod + Staln	1,950	U	S Gas	42	338,217	521,741	3,296,646	764,787	*Pect Est., C.A. Rising, Cleo A. Rising, A.B. Shannon, Frances R. Shannon "A", Frances R. Shannon "B", Stabeck, et al
Udall	J. A. Hamilton	Hand	71884	10385		29-30-3E	D	80	0	Hoover	1,810	7	2	2	1	1	1963	2	0	0	1	Irreg.	200	90	Prod		U	Grav	36	18,250	0	80,000	0	
Werner	E. T. Lindsay	Feaster Unit	64721	8340	Cranston, Feaster, Kadau, Wahlenmaier	30-32-6E	W	200	210	Layton	2,240	7	6	2	0	0	1961	1	1	0	0	Irreg.	*	70	Prod		U	S Gas	38	25,550	0	59,600	0	*Gravity
Winfield	H. H. Blair	Lorton Lease	66483	8785	Lorton	25-32-4E	D	160	---	Layton	---	---	4	0	0	0	1961	0	0	0	0	Irreg.	210	205	Prod		U	S Gas	39	294,874	---	548,900	---	
Winfield	Earl F. Wakefield	B. G. Thirsk	---	9975	Thirsk	26-32-4E	D	80	0	Bartl	2,900	7	7	0	0	0	1962	1	0	0	0	Perip.	0	200	Staln	1,925	U	Wat	40	73,000	10,263	91,000	12,360	
Winfield South	Gralapp and Everly	Winfield South Pool	---	9429	Elam, Johnson	11,12-33-4E	W	50	0	Hoover	1,738	15	5	0	0	0	1962	1	0	0	0	Perip.	260	120	Peacock	1,394	U	Wat	38	43,800	10,014	63,300	23,859	
Total Cowley County								10,737	610				311	97	1	30		234	43	0	18								18,162,560	1,555,488	120,699,031	10,618,272	

Table 1

Kansas Geological Survey

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS		NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED		PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS				DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS				WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls)		TO END OF 1963 (CUMULATIVE, Bbls)		ADDITIONAL INFORMATION
			Comm. No.	Consv. No.				Current	Add.				Active	Inact.	Drld.	Abd.		Active	Inact.	Drld.	Abd.									WATER INJECTED	OIL PRODUCED	WATER INJECTED	OIL PRODUCED	
CRAWFORD COUNTY																																	
Farlington	Wel-Kan Oil Company	Holtman Lease	70281	9856	Holtman	2-28-23E	W	40	40	Peru	165	20	14	0	8	0	1962	9	0	9	0	5-spot	175	10	Burgess	610	F	*	31	35,000	10,976	40,000	12,691	*None (new field)
Hepler	Waldo Huning	---	---	---	Elmer	30-27-22E	W	5	20	Bartl	585	8	16	0	1	0	1962	2	0	1	0	Irreg.	400	30	Prod + Ft. Scott	300	U	Grav	26	22,000	3,000	34,000	5,000	
St. Paul-Walnut	Heaton Production Co.	St. Paul-Walnut Field	45201	3419	O'Brien	35-28-21E	W	100	50	Bartl	390	12	4	9	0	0	1954	11	0	0	0	5-spot	330	18	Prod + Arbuc	975	U	Gas Exp	28	6,000	300	x	x	
Walnut Southeast	General American Oil Company of Texas	Walnut Flood	43447	3105	Walnut Group	27,28,33-28-22E	W	200	0	Bartl	370	13	40	0	0	0	1951	63	0	0	0	7-spot	300	8	Prod + Arbuc	1,002	U	S Gas	28	185,505	17,054	1,195,645	89,886	
Walnut Southeast	Heaton Production Co.	Wintjen	---	---	Wintjen	27-28-22E	W	40	80	Bartl	390	15	6	1	0	0	1959	7	0	0	0	5-spot	325	40	Prod + Arbuc	970	U	Gas Exp	28	12,000	700	x	x	
Total Crawford County								385	190				80	10	9	0		92	0	10	0									260,505	32,030	1,269,645	107,577	
DECATUR COUNTY																																	
Feely	Continental Oil Company	Feely Lansing-K.C.	70284	9859	Feely Lansing-K.C.	2,11-5-27W	W	64	0	Lans-KC	3,600	11	5	0	0	0	1963	2	0	0	0	Line	550	225	Sh Sd	175	F	S Gas	35	101,942	32,678	101,942	32,678	
Jennings	Texaco, Inc.	Jennings Unit	64393	8190		25,36-4-27W	W	640	---	Howard Lansing	3,175 3,500	5 9	13	---	---	---	1961	6	---	---	---	Perip.	900	300	Prod + Cedar Hills	1,680	U	S Gas	37	626,217	44,420	1,571,552	90,932	
Pollnow	Union Texas Petroleum Corporation	Pollnow Unit Field	62443	7653	Pollnow	3,4,5,8,9-3-29W	W	740	240	Lans-KC	3,740	4	14	0	0	0	1960	2	0	0	0	Irreg.	0	360	Prod + Dakota	1,275	M	*	38	263,657	27,688	684,355	136,888	*Liquid expansion
Vavroch	Halliburton Oil Producing Company	Vavroch	69046	9414	Vavroch	33-3-28W;4-4-28W	P	40	320	Lans-KC	3,808	25	8	0	0	0	1962	1	0	0	0	Perip.	550	38	Prod		U	S Gas	36	13,748	0	15,958	0	
Total Decatur County								1,484	560				40	0	0	0		11	0	0	0									1,005,564	104,786	2,373,807	260,498	
DICKINSON-MARION																																	
Lost Springs	Frank Jones Oil Operations	Lost Springs	---	6089*	John Bichler, A.L. Daetwiler, McNicol A, Martin B North, Martin C	33,34-16-4E;3,10-17-4E	P	960	0	Missi	2,350	16	20	0	0	0	1957	5	0	0	0	Irreg.	0	350	Prod		U	Grav	34	127,000	0	638,750	0	*6090, 6091, 6096, 6098
DOUGLAS COUNTY																																	
Baldwin	Russell Hays	Smith-Danly	59363	6934	Smith, Danly	9-15-20E	---	---	---	Squirrel	825	20	5	1	---	---	-----	---	---	---	---		---	---		---	---		26	---	---	---	---	
EDWARDS COUNTY																																	
Enlow	Natural Gas and Oil Company	Enlow Unit	52236	---	Enlow	9-24-16W	D	40	0	Lans-KC	3,740	6	2	0	0	0	1956	1	0	0	0	Irreg.	0	310	Prod		U	Wat	31	112,270	2,402	386,715	21,834	
Enlow	Natural Gas and Oil Company	Hahn Unit	56774	---	Hahn	4-24-16W	D	100	0	Lans-KC	3,740	6	2	1	0	1	1958	1	0	0	0	Irreg.	0	315	Prod		U	Wat	31	114,775	4,730	560,666	36,528	
Total Edwards County								140	0				4	1	0	1		2	0	0	0									227,045	7,132	947,381	58,362	
ELK COUNTY																																	
Dunkleberger	Denton & Morrow	Dunkleberger	41541	2730	Bush, Denton	33,34-29-10E	W	80	0	Redd	1,340	25	13	0	0	0	1946	8	1	0	0	5-spot	485	45	Prod		T	S Gas	34	66,500	6,522	1,344,221	330,219	
Dunkleberger	Morrow & Co., Inc.	Dunkleberger	41541	2730	Dunkleberger	34-29-10E	W	70	0	Redd	1,298	25	9	0	0	0	1946	7	0	0	0	5-spot	485	45	Prod		T	S Gas	34	68,104	7,878	1,157,803	283,956	
New Albany	Roy W. Janney	Pickell Unit	---	---	Pickell	34-28-13E	P	60	100	New Albany	595	20	5	---	0	0	1962	2	0	0	0	Irreg.	300	35	Prod		U	S Gas	32	18,000	2,000	30,000	4,000	
Moline	J. E. Newman	Moline Water-flood	71993	10390	Baker, Bell, J. Eyman, M. Eyman, Smith	9,10-31-10E	W	160	480	Missi Dol	1,995	20	7	0	7	0	1963	2	0	2	0	Perip.	400	500	Prod		U	Wat	33	160,000	12,384	160,000	12,384	
Shrader	Aladdin Petroleum Corp.	Shrader	*	*	Shrader	11,12,13,14-31-8E	P	1,077	0	KC Group	1,654	40	6	0	0	0	1963	1	0	0	0	Irreg.	0	30	Prod + Layton	1,550	U	**	32	1,460	0	1,460	0	*Application pending; **pumping still primary method
Total Elk County								1,447	580				40	0	7	0		20	1	2	0									812,064	28,784	2,693,484	630,559	
ELLIS COUNTY																																	
Bemis-Shutts	Lario Oil & Gas Company	Gilbert Lease	---	9328	Gilbert	8-11-17W	P	160	0	Arbuc*	3,433	2	0	0	0	0	1962	1	0	0	0	Irreg.	0	10			T	Wat	36	2,270	0	4,464	0	*Plugged back to the KC Group formation in October, 1962
Bemis-Shutts	Tenneco Oil Company	Frank S. Wasinger Unit	71065	10120	Frank S. Wasinger	21-11-18W	W	320	0	Lans-KC	3,320	6	5	0	0	0	1963	3	5	0	0	Line	15	371	Arbuc	3,600	U	S Gas	34	135,876	13,083	135,876	13,083	
Catharine Northwest	M. J. Bove	Waster-West	62803	7733	Waster, West	4-13-17W	W	120	0	Lans-KC	3,242	6	3	0	0	0	1960	1	0	0	0	Irreg.	0	185	Prod + Fresh	30	M	Grav	35	67,890	5,943	402,397	46,557	
Cromb	The Shallow Water Refining Company	Zachman	54932	5605	Zachman	15-11-20W	P	160	0	Lans-KC	3,554	8	4	0	0	0	1957	1	0	0	0	Irreg.	200	466	Prod		U	S Gas	30	170,000	- x	546,000	x	
Degenhart	Tenneco Oil Company	Degenhart	59430	6952	John J. Degenhart	15-15-17W	W	160	0	Lans-KC	3,420	8	1	0	0	0	1959	1	0	0	0	Irreg.	x	237	Prod + Arbuc	3,520	U	S Gas	37	86,642	1,528	304,835	35,706	
Dreiling	The Atlantic Refining Co.	Dreiling-Repressuring with Salt Water	---	5566	M.P. Dreiling	22-14-16W	W	160	0	Lans-KC	3,243	6	2	2	0	0	1957	2	0	0	0	Irreg.	*	240	Prod		U	S Gas	36	87,335	1,747	299,275	86,099	*Vacuum
Emmeram	CRA, Inc.	Froelich	---	7142	Froelich "A", "B", "C"	4-13-16W	W	180	0	Lans-KC	3,235	30	3	0	1	0	1959	1	0	0	0	Irreg.	*	321	Dakota	350	M	S Gas	37	116,948	2,249	301,509	9,896	*Vacuum
Emmeram Northeast	Froelich "F"	Froelich "F"	58233	6605	Froelich E & F, Sitz	27,34-12-16W	D	160	0	KC Group	3,270	4	6	0	0	0	1961	2	0	0	0	Irreg.	*	x	Prod		U	S Gas	33	x	0	x	0	*Gravity
Fairport	Solar Oil Company	Katie Austin Brungardt et al	53321	5267	Wieland C	36-12-16W	W	130	0	Lans-KC Dodge	3,000	90	7	0	0	0	1957	1	0	1	0	Perip.	11	175	Prod		U	S Gas	36	79,111	19,870	507,432	30,170	
Fairport	Solar Oil Company	Schmitt B Lease	---	8741	Schmitt B	12-13-16W	W	40	50	Lans-KC	3,050	20	3	0	0	0	1961	1	0	0	0	Perip.	600	500	Prod		T	S Gas	39	182,166	1,850	286,995	1,850	
Herzog	Hinkle Oil Company	Braun	---	---	Braun	32-13-16W	D	60	0	Lansing	3,200	10	3	0	0	0	1960	1	0	0	0	Perip.	---	30	Prod		U	S Gas	38	10,000	9,600	30,000	9,600	
Herzog	Don E. Pratt*	Pratt Airbase	---	---	Pratt Airbase	20,21,27,28,29,33,34-13-16W	P	320	1,000	Lans-KC + Gorham	---	4	7	---	0	---	1963	2	1	0	0	Irreg.	380	200	Prod		T	S Gas	36	29,276	0	29,276	0	*Records transferred to American Petrofina
Leiker East	Rock Island Oil & Refining Co., Inc.	Dechant Wtr. Flood	65002	8397	Dechant	14-15-18W	W	40	0	Lans-KC	3,320	8	2	1	0	0	1961	1	---	---	---	Irreg.	900	145	Prod		U	S Gas	36	53,000	7,300	188,050	10,950	
Sugarloaf Southeast	American Petrofina Company of Texas	Braun "A" Lease	64357	8173	Braun "A"	34-13-17W	P	160	0	Lans-KC	3,268	7	4	1	0	0	1961	1	0	0	0	Perip.	490	213	Prod		U	S Gas	35	77,808	5,041	111,636	7,161	
Toulon South	Okmar Oil Company	Brungardt	70261	9849	Brungardt, Christina, Goetz D	10,14,15-14-17W	W	100	80	KC Group	3,430	7	6	---	0	0	1963	1	---	0	0	Perip.	1,000	300	Prod		T	S Gas	35	90,000	2,000	90,000	2,000	
Toulon Southwest	Okmar Oil Company	Dinkel A	63722	7982	Dinkel, Dinkel A	16-14-17W	W	50	30	KC Group	3,314	4	2	0	0	0	1960	1	0	0	0	Irreg.	50	125	Prod + Arbuc		T	S Gas	33	43,000	2,200	107,000	11,700	
Turkville	Colorado Oil & Gas Corp.	McCombs	68191	9229	McCombs	11-11-17W	D	40	0	Lans-KC	3,008	266	1	0	0	0	1962	1	0	0	0	Irreg.	0	191	Prod + Arbuc	3,359	U	S Gas	35	69,747	2,524	113,656	2,524	
Ubert Northwest	E. K. Edmiston	Ubert Northwest	69806	---	Schmidt	36-12-18W	W	80	0	Lans-KC	3,600	40	4	0	0	0	1962	1	0	0	0	Perip.	0	100	Prod		U	S Gas	29	40,000	0	65,000	0	
Ubert Northwest	Texaco Inc.	A. Jensen	69806	9694	A. Jensen	35-12-18W	W	160	---	Lansing	3,400	---	5	---	---	---	1962	1	---	---	---	Line	0	150	Prod		U	S Gas	31	52,986	0	73,004	0	
Total Ellis County								2,600	1,160				68	4	1	0		24	6	1	0									1,395,255	74,935	3,596,405	267,206	
ELLIS-ROOKS																																	
Brungardt	Champlin Oil & Refining Company	Brungardt Unit	50025	4614	Brungardt Unit	35,36-10-17W;2-11-17W	W	30	0	Penn Congl	3,400	7	1	5	0	0	1956	2	3	0	4		12	216	Prod		---	S Gas	31	108,463	7,706	2,219,146	258,615	
Brungardt	Champlin Oil & Refining Company	Brungardt Unit	70126	9822	Brungardt Unit	35,36-10-17W;2-11-17W	W	100	0	Lans-KC	3,194	---	5	0	0	0	1963	5	0	0	0	Irreg.	*	255	Prod		---	S Gas	31	326,255	11,598	326,255	11,598	*Vacuum
Krueger	Cities Service Oil Co.	Krueger Unit	43711	3145	Krueger Unit	35,36-10-16W;1,2,3-11-16W	W	100	327	Lans-KC + Dodge	3,225	49	22	0	0	0	1961	5	0	0	0	5-spot	0	224	Dakota	475	T	S Gas	37	408,784	46,096	879,946	89,939	
Total Ellis-Rooks								230	327				28	5	0	0		12	3	0	4									843,502	65,400	3,425,347	360,152	
ELLIS-RUSSELL																																	
Fairport	Pan American Petroleum Corporation	Kate Austin	44208	---	Austin K., Brungardt JJ "A" & "B", Furthmeyer J., LL & LL "C"	30,31-12-15W;25,36-12-16W	W	450	0	Lansing + Dodge	3,000	90	14	0	0	0	1961	3	1	0	0	Irreg.	0	416	Prod + Dakota	660	U	S Gas	37	455,440	56,579	2,981,823	351,483	
ELLSWORTH COUNTY																																	
Geneseo-Edwards	Continental Oil Company	Edwards North WF	63058	7809	A.W. Shonyo, J.M. Shumway	9,10-17-8W	P	88	77	Simp	3,140	15	6	0	0	0	1961	3	0	0	0	Irreg.	1,100	3,800	Prod + Arbuc	3,140	T	S Gas	41	150,632	23,908	371,216	88,362	
Kraft-Prusa	Pandora Oil		70089	9805	Soeken	19-17-10W	P	160	320	Lans-KC	3,002	6	2	0	0	0	1962	1	0	0	0	3-spot	810	478	Prod		T	Gas Exp	41	75,677	2,640	92,556	2,640	
Lorraine	National Cooperative Refinery Association	Janssen "C"	64165	8126	Janssen "C"	13-17-9W	W	40	0	KC Group	3,040	14	4	0	0	0	1960	1	0	0	0	Irreg.	900	427	Prod + Sh Sd	199	M	S Gas	35	155,848	4,929	243,817	6,489	
Stoltenberg	The Henderson Oil Co.	Zvolanek	70875	10057	Zvolanek "B"	32,33-15-10W	D	60	0	Simp	3,246	10	1	1	0	0	1962	1	0	0	0	Irreg.	0	30	Prod		U	Wat	38	10,800	0	29,800	0	
Total Ellsworth County								348	397				13	1	0	0		6	0	0	0									392,957	31,477	737,389	97,491	
FINNEY COUNTY																																	
Nunn	The Shallow Water Refining Company	Nunn Pool	57111*	6255*	Acilts, Davis, Gobleman, McHugh, Maune, Nunn	22,23,26,27,34-21-34W	P	1,600	0	Marmaton	4,276	9	10	0	0	1	1958	2	1	0	0	Irreg.	0	300	Prod		U	S Gas	34	220,000	x	855,000	x	*68315, 9245
Pleasant Prairie	E. T. Lindsay	Kuhn-Devlin Lease	71220	10157	Kuhn-Devlin	19-26-34W	P	640	640	Missi	5,137	18	7	0	0	0	1963	1	0	0	0	Irreg.	*	178	Prod		T	S Gas	34	42,542	0	42,542	0	*Gravity
Total Finney County								2,240	640				17	0	0	1		3	1	0	0									262,542	0	897,542	0	
FRANKLIN COUNTY																																	
Paola-Rantoul	Kerr-McGee Oil Industries, Inc.	Wellsville Flood	61934	7526	Ackley, Bell, Dorsey, Lidikay, Rhoads, Rice, Royer, Taylor, Schowengerdt	3,4,10-16-21E	W	300	0	Squirrel	700	30	58	4	1	0	1959	82	1	0	0	Line	700	30	Arbuc	1,500	T	S Gas	28	897,637	81,325	3,735,717	480,265	
Paola-Rantoul	L. L. & B. Oil Company	Unit #1 and #2	25412	806	Neff, Springer-Watkins	10,15,22-17-21E	W	700	500	Peru	360	30	150	20	0	0	1942	170	15	0	0	5-spot	600	180	Lake + River		F	Grav	31	1,095,000	17,489	1,095,000	17,489	
Paola-Rantoul	Maracaibo Oil Expl. Corp.	Group 3	40664	2591	Unitized	8,9,16,17,20-16-21E	W	210	0	Squirrel	600	20	60	0	0	0	1951	65	0	0	0	Line	600	50	Prod + Missi	1,500	T	Gas Exp	30	1,058,000	51,567	12,009,000	1,128,000	
Paola-Rantoul	Tex-Kan Oils, Ltd.	Heninger-Finch Group	---	3132	Coffman, Finch, Gingrich, B. Moherman, H. Moherman, Stevenson, Thompson	29-16-21E	P	191	0	Squirrel	650	23	68	0	0	0	1951	60	18	0	0	5-spot	800	40	Prod + Arbuc	---	M	S Gas	31	473,281	15,776	8,153,000	447,000	
Paola-Rantoul	Tribune Oil Corporation	Group 3	40644	2591	Alden, Alert, Barnett, Chambers, Grobo, H&W, Moherman, Shelton, Ziolsdorf	8,16,17,20,21-16-21E	W	210	---	Squirrel	600	20	75	0	0	0	1951	75	0	0	0	Line	600	37	Prod + Missi	1,500	T	S Gas	30	1,008,000	46,833	22,560,000	1,128,000	
Paola-Rantoul and Norwood	Howard R. Thach*		68114	9184	Brady, McConnell	20,30-15-20E;18,19,29-16-21E	D	80	400	Squirrel	730	20	14	5	0	2	----	5	0	0	0	Irreg.	350	20	Prod		U	Grav	26	20,000	---	---	---	*Successor to Pawcat Associates
Total Franklin County								1,691	900				425	29	1	2		457	34	0	0									4,551,918	212,990	47,543,717	3,200,754	
GRAHAM COUNTY																																	
Brassfield	The Shallow Water Refining Company	Brassfield	60320	---	Brassfield	2-10-22W	P	80	0	Lans-KC	3,725	10	2	0	0	0	1951	1	0	0	0	Irreg.	0	13	Prod		U	S Gas	40	5,000	x	75,000	x	
Brush Creek	Imperial Oil of Kansas, Incorporated	Imperial; Brush Creek Waterflood Unit	60801	7244	Beiker "A", "B", Karst, McPherson	4,9-9-23W	P	360	320	Lans-KC	3,739	4	6	0	0	0	1959	2	0	0	0	Irreg.	0	350	Prod		U	S Gas	35	258,227	6,340	563,346	16,360	
Conness	Kaiser-Francis	Conness "C"	66544	---	Conness "A", "C"	22,23-10-23W	D	320	---	Lans-KC	3,608	200	3	0	0	0	1961	1	0	0	0	Irreg.	*	90	Prod		U	Gas Exp	37	32,000	8,900	71,785	14,000	*Gravity
Cooper	Natural Gas & Oil Co.	C. Smith Unit	63692	---	Denning, Rudman, C. Smith	32-9-21W;5-10-21W	P	160	0	Lans-KC	3,510	6	6	0	0	0	1960	1	0	0	0	Irreg.	400	947	Prod		U	Wat	36	345,544	15,948	552,230	37,297	
Cooper	Sunray DX Oil Company	Germany Lans-KC	63227	7844	Germany	6-10-21W	W	60	0	KC Group	3,580	9	2	0	0	0	1960	1	0	0	0	Irreg.	0	726	Prod		U	S Gas	36	26,514	1,025	83,087	1,065	
Diebolt	Sunray DX Oil Company	Diebolt Lans-KC Unit	67576	9110	Diebolt Lans-KC Unit	18,17,20,21,28,29-10-23W	W	1,671	0	Lansing	3,850	*	52	5	0	0	1962	17	0	0	0	Perip.	740	186	Cheyenne	1,250	U	S Gas	41	1,153,815	180,303	1,362,867	180,203	*5' to 30'
Harmony	Union Texas Petroleum Corporation	Harmony Field	57614	6420	Dunwoody, Jones, Sanford	32-7-22W;5-8-22W	D	280	0	Lans-KC	3,550	5	3	0	0	0	1958	1	0	0	0	Irreg.	0	900	Prod		U	*	36	327,072	5,631	1,334,193	71,546	*Liquid expansion
Higer	Leo J. Dreiling Oil Co.	Higer A & B	---	8767	Brinkmeier, Higer A	19-20-8-23W	D	380	0	Lansing	3,193	8	2	0	0	0	1961	2	0	0	0	Irreg.	0	150	Prod + Fresh	30	M	S Gas	40	94,339	9,000	332,349	18,000	
Holley	Imperial Oil of Kansas, Incorporated	Imperial; Holley Lans-KC Unit	70684	9991	Boothe, Brown "D"	33-8-24W	W	480	0	Lans-KC	3,957	4	7	1	0	0	1959	2	2	0	0	Line	250	114	Prod + Cedar Hills	1,800	T	S Gas	37	83,675	4,100	208,659	29,994	
Holley	Sunray DX Oil Company	Blackburn	57775	6453	Blackburn	33-8-24W	W	50	0	Lans-KC	3,900	9	2	0	0	0	1958	1	0	0	0	Irreg.	650	101	Cedar Hills	1,650	U	S Gas	38	36,902	5,388	160,928	27,097	
Holley	Texaco Inc.	Holley Unit	69552	9577		30,31,32-8-24W;5,6-9-24W	W	2,800	---	Lansing	3,950	8	48	---	---	1	-----	16	1	---	0	*	700	213	Prod + Cedar Hills		U		40	785,394	26,229	785,394	26,229	*Controlled waterflood
Law Northwest	Burch Exploration, Ltd.	Law, Northwest	68865	9379	Hildebrand "A", "B", Morris	21,28-9-23W	W	240	0	Lans-KC	3,900	180	9	0	0	0	1962	2	0	0	0	Irreg.	700	300	Dakota	1,600	U	S Gas	36	123,766	x	228,293	x	
Law Southeast	Kimbark Exploration Co.	Southeast Law Unit	69360	9536	Griffith, Irwin, Ninemire, Stites	1,12-10-23W	W	320	0	Lansing	3,600	20	8	0	0	0	1962	4	0	0	0	Perip.	250	800	Prod + Cedar Hills	1,000	U	S Gas	37	274,900	0	315,600	0	
Nana	Colorado Oil & Gas Corp.	Goff Lease	62364	7629	Goff	10-8-24W	P	40	0	Lans-KC	3,550	220	2	0	0	0	1960	1	0	0	0	Irreg.	0	158	Prod		U	S Gas	41	57,770	1,500	201,253	5,500	
Nana	Hollar Oil Company	Goff	64660	8294	Goff	3-8-24W	D	80	80	Lansing	3,580	7	1	0	0	0	1960	1	0	0	0	Irreg.	0	250			U	S Gas	40	91,250	7,800	104,000	15,000	
Penokee	Barnett Oil Company	Penokee Repressuring System	57066	6240	Lyon, Nicholson, Paxson	2,11,12-8-24W	W	60	x	Lans-KC	3,790	9	4	0	0	0	1958	2	0	0	0	Line	1,300	324	Prod		U	S Gas	39	42,000	23,689	106,000	31,300	
Red Line	Sunray DX Oil Company	Sturgeon	56769	6173	Sturgeon	32-9-22W	W	60	0	Lansing	3,802	7	3	0	0	0	1958	1	0	0	0	Irreg.	600	162			U	S Gas	40	59,030	14,513	245,116	23,588	
Schmied	Empire Drilling Company	Madden-Davis "A" and "B" Waterflood Unit	---	---	Bell-Paxson, Madden-Davis "A" and "B"	16,17-8-25W	D	240	0	Lans-KC	3,800	150	8	0	0	0	1961	2	2	0	0	Perip.	0	125	Prod + Cedar Hills	1,600	T	Grav	--	114,000	6,000	180,000	6,000	
Schmied	Tenneco Oil Company	Schmied	57849	6482	Adelia Schmied "C"	21-8-25W	W	160	0	Lans-KC	3,700	8	2	0	0	0	1958	1	0	0	0	Irreg.	0	x	Prod		U	S Gas	39	x	4,488	x	11,660	
Schmied	Texaco Inc.	Madden-Davis	64168	8129	Madden-Davis	17-8-25W	W	400	---	Lansing	3,650	15	9	---	---	---	1961	3	---	---	---	Perip.	0	150	Prod + Cedar Hills	1,850	T	S Gas	39	159,693	921	359,971	921	

DATA ON SECONDARY RECOVERY AND PRESSURE MAINTENANCE PROJECTS IN KANSAS, 1963

Kansas Secondary Recovery and Pressure Maintenance Committee
E. D. Goebel and M. C. Colt, Co-Chairmen

Table 1
Kansas Geological Survey

Special Distribution Publication 16

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS Comm. No.	ORDER DOCKET NUMBERS Consv. No.	NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED Current	NUMBER OF ACRES FLOODED Add.	PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS Active	NO. OF OIL WELLS Inact.	NO. OF OIL WELLS Drld.	NO. OF OIL WELLS Abd.	DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS Active	NO. OF WATER INJECT. WELLS Inact.	NO. OF WATER INJECT. WELLS Drld.	NO. OF WATER INJECT. WELLS Abd.	WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FROMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls) WATER INJECTED	1963 (Bbls) OIL PRODUCED	TO END OF 1963 (CUMULATIVE, Bbls) WATER INJECTED	TO END OF 1963 (CUMULATIVE, Bbls) OIL PRODUCED	ADDITIONAL INFORMATION
ALLEN COUNTY																																	
Bronson-Xenia	C-W Oil Co., Inc.	C-W	69112	9440	Bacon, H.J. Bartlett, J.W. Bartlett, Boyd, Gifford, Harris, McLaughlin, Smock	33-24-21E;4,5,8,9-25-21E	W	145	50	Bartl	800	20	16	0	6	1	1962	10	3	5	0	5-spot	300	26	Prod + Missi	1,300	T	Grav	26	94,924	5,261	106,924	8,261	
Bronson-Xenia	Mack C. Colt, Business Account	KBA-KBB-KBC	43350	3091	Davidson, Grubaugh, Harvey, Isenhart, Johnson, Lamb, Lent, Morrison, Newton, North Holeman, Smith, Stewart, Zimmerman	22,27,28,33,34-24-21E	W	362	266	Bartl	750	20	65	95	7	2	1951	77	67	9	0	Line	375	65	Prod + Missi	1,200	T	Grav	30	1,483,878	80,971	14,213,878	1,597,971	
Bronson-Xenia	Steiner Drilling Co.	Crowder	64479	9546	Crowder	34-24-21E;3,4-25-21E	W	50	0	Bartl	700	8	17	0	10	---	1962	10	---	---	5	Irreg.	300	20	Missi	1,000	T	Grav	28	80,000	9,300	107,000	13,243	
Bronson-Xenia and Elsmore West	International Oil & Gas Corporation	Elsmore Project	73797	11015	Anderson, Bradford, Broughton, Brown, Fuhrman, Ludlum, McClimans, Munson, Nelson, Newby, Perry, Sisson, Weisdorfer, Young	21,22,28,29,32-25-21E	W	81	149	Bartl	700	12	30	6	1	0	1958	19	5	0	0	Irreg. 5-spot	522	30	Prod + Missi	900	T	S Gas	31	207,994	9,644	833,495	48,785	
Davis-Bronson	O. R. Jackson	Dawson	61044	---	Dawson	15-24-21E	P	20	x	Bartl	640	20	x	x	0	2	1959	3	2	0	3	Irreg.	350	30	Fresh		F	Wat	27	0	x	43,200	x	
Davis-Bronson	Steiner Drilling Co.	Steiner	58984	6814	Maley, B. Maley, Smith, Willets	10,15-24-21E	W	130	30	Bartl	650	12	25	0	4	4	1959	15	0	---	4	Irreg.	300	20	Missi + Pond	1,000	M	Grav	28	91,250	16,363	469,284	76,378	
Elsmore Shoestring	Schermerhorn Oil Corp.	Elsmore	64225	---	Pavlicek, Perry "A", Perry "B", Stewart "B"	27,34-25-21E	W	75	0	Bartl	700	30	34	24	4	1	1960	19	0	0	0	Irreg.	600	66	Prod + Arbuc	1,800	U	S Gas	31	459,970	29,468	1,226,176	78,909	
Elsmore Shoestring	Steiner Drilling Co.	Pitts	67589	9117	Pitts	3-26-21E	W	20	0	Bartl	550	12	8	0	0	0	x	---	---	---	---	5-spot	200	---	River		F	Grav	31	20,000	1,530	55,000	3,030	
Elsmore West	Robert T. Hanson	Seastedt Lease	---	2992	Seastedt	32-25-21E	---	---	---	Bartl	700	12	0	5	1	0	1955	---	---	---	---	5-spot	---	---	Prod		---	Grav	30	---	---	---	---	
Humboldt-Chanute	Ayjay Oil Co., Ltd.	Big Chief Group	---	---	Dorris, Drollinger, Farmer, Hoke, Lassman, Roehl, Whitaker, Wolf	16,17,20,21-26-19E	W	1,040	0	Bartl	850	15	36	0	0	0	1953	33	0	0	0	5-spot	x	x	Prod		T	S Gas	31	292,889	14,052	5,827,000	31,000	
Humboldt-Chanute	B D K Company	Project 502	---	591	Geissler, Hammann, F.F. Harner, F.W. Harner, Leitzbach "D", Nordt, Weiner	13,14,23,24-26-18E	W	415	40	Bartl	850	30	100	66	0	0	1941	40	93	0	0	5-spot	800	50	Missi	1,180	T	S Gas	31	730,000	17,715	x	x	
Humboldt-Chanute	B D K Company	Project 503	65903	8647	Brinkman, Creighton, Drake, Gerken, Hauser, Leitzbach "A"	12-26-18E;6,7-26-19E	W	155	40	Bartl	850	30	26	0	0	0	1961	30	3	0	0	5-spot	500	70	Missi	1,140	T	S Gas	31	1,095,000	24,417	x	x	
Humboldt-Chanute	William H. Campbell	Strack	---	---	Strack	35-26-18E	W	35	x	Bartl	835	20	4	2	2	0	1961	2	0	0	0	Irreg.	350	13	Oswego	350	M	S Gas	32	9,000	400	26,000	3,000	
Humboldt-Chanute	Dunne-Gardner Drilling Co., Inc.	Darby Waterflood	41263*	2698*		4,5,7,8,19,20,29,32-26-18E	W	717	0	Bartl	800	15	166	32	0	0	1951	105	32	0	0	Irreg. + 5-spot	750	32	Prod + Neosho River		M	S Gas	29	1,226,400	47,276	19,666,838	772,552	*43844, 3183; 23690, 596
Humboldt-Chanute	Halo Producing Company	Perrenoud-Weiner	---	9014	Perrenoud, Weiner	9-26-18E	P	48	40	Bartl	760	15	19	0	0	0	1961	6	0	0	0	Irreg.	550	50	Prod		T	S Gas	30	87,600	16,328	225,000	80,000	
Humboldt-Chanute	Jones and Campbell, Inc.	Finney Unit	---	8068	Finney "A"	3-26-18E	W	20	x	Bartl	780	10	3	3	0	0	1961	1	0	0	0	Irreg.	400	15	Oswego	500	M	S Gas	23	3,000	1,701	25,500	5,745	
Humboldt-Chanute	Jones and Campbell, Inc.	Finney Unit	---	8068	Finney "B"	10-26-18E	W	20	x	Bartl	780	10	1	5	0	0	1961	1	0	0	0	Irreg.	200	15	Prod		U	S Gas	31	5,000	236	25,500	786	
Humboldt-Chanute	Jones and Campbell, Inc.	McCormick	---	---	McCormick	16-26-19E	W	40	x	Bartl	860	5	3	5	0	0	1959	2	1	0	0	Irreg.	300	25	Prod		U	S Gas	33	17,800	3,430	94,800	25,892	
Humboldt-Chanute	Jones and Campbell, Inc.	Monarch	---	8170	Monarch	9-26-18E	W	40	20	Bartl	780	8	9	0	1	0	1960	6	0	0	0	Irreg.	300	30	Oswego	500	M	S Gas	21	65,800	7,917	156,800	19,473	
Humboldt-Chanute	Kachina Production Co.	Humboldt Unit	---	207	Adams, Dietrich, McFarren, Miller, Penn, Puckett, Squires	16,21,22-26-18E	W	230	400	Bartl	750	15	60	110	0	7	x	25	54	0	1	Irreg. 5-spot	400	30	Prod + Missi	912	U	S Gas	29	50,000	22,000	x	408,000	
Humboldt-Chanute	Tex-Kan Oils, Ltd.	Matson Group	---	3435	Berry, Burtiss, Frakes, Fussman, Glover, McCarty, McKinley, Mendenhall, Morris, Stevens, Stewart, Wadley	16,17,18,19-26-18E	P	322	---	Bartl	800	38	154	0	0	0	1937	123	9	0	0	5-spot	750	x	Prod + Surface		F	S Gas	29	464,437	28,413	16,060,000	1,259,000	
Humboldt-Chanute	C. A. & Roy Willis	Heavy Oil	---	5716*	Hoepker, Krouse, McKaska, Yount	25,36-26-18E	P	60	20	Bartl	825	15	22	3	0	0	1953	16	1	0	0	Irreg.	500	15	Prod + Oswego	450	U	Grav	24	70,000	---	450,000	150,000	*5717; 6370
Humboldt-Chanute	Wilshire Oil Company of Texas	Humboldt Unit	---	---	Henrichs	22,23-26-18E	W	240	---	Bartl	800	12	24	x	x	x	----	15	x	x	x	Irreg.	700	94	Prod + Missi	1,200	U	Grav	29	512,825	---	---	18,600	
Humboldt-Chanute	Wilshire Oil Company of Texas	K. T. Unit	---	---	Butler Aldrich, L.D. Butler, Dickerson, Ingram	32,33-26-18E	W	360	---	Bartl	730	15	60	0	0	x	x	50	x	x	x	Irreg.	550	54	Prod		U	Grav	31	985,500	---	---	36,000	
Iola	Marvin E. Boyer Oil Co.	Unit #1	---	7095	Brown, Helman, Wright	33,34-23-18E;4-24-18E	W	140	0	Squirrel	780	10	28	0	0	0	1960	23	0	3	0	5-spot	400	30	Prod + Salt Sd	1,000	T	Grav	31	255,500	41,759	6,146,860	130,339	
Iola	C-W Oil and Gas Co.	Iola Field	66143	8717	Clinkenbeard	3-24-18E	P	5	35	Bartl	1,000	25	11	0	0	1	1961	1	0	0	0	Irreg.	0	250	Prod		U	Grav	24	97,250	9,806	212,000	30,806	
Iola	Layton Oil Company	Carlyle Flood	67545	9089	Wiggins	10-24-18E	A	5	1,200	Bartl	860	35	6	0	4	0	1963	2	0	2	0	Inv. 5-spot	280	0*	Prod		U	Wat + S Gas	20	0**	3,200	0**	3,200	*800,000 cu ft air; **304,000 M cu ft annual & cumul.
Iola	Royal Oil & Gas Corp.	Charlotte Hobbs	44237	3246	Charlotte Hobbs	9-24-18E	D	160	0	Bartl	956	10	15	3	3	0	1952	1	0	0	0	Perip.	0	---	Prod		U	S Gas	19	25,550	12,577	182,084	135,819	
Iola	The Star Producers, Inc.	Lorance Lease	---	6633	Lorance	21-24-18E	P	5	80	Squirrel	668	9	4	12	0	0	1962	1	0	0	0	5-spot	120	12	Prod + River Grav	20	F	Grav	33	1,800	1,080	5,400	1,080	
Moran	Marvin E. Boyer Oil Co.	Unit #2 La Harpe-Moran		10334	Coltrane, Foust, Knox, Wade, Wolf	23,24-25-19E	W	20	720	Bartl	820	10	10	0	0	0	1963	3	0	0	0	5-spot	50	20	Missi	1,010	T	Grav	25	10,600	8,140	10,600	8,140	
Moran	Colt Oil Co., Inc.	Moran	70533	9952	Bowen	35,36-24-20E	W	7	98	Bartl	800	15	18	4	2	0	1963	6	0	1	0	5-spot	300	29	City of Moran		F	Grav	22	41,466	1,106	41,466	1,106	
Moran	Wheeler Oil Company	Moran Waterflood	---	---	Apt, Krieger, Winslow	34,35-24-20E	W	140	600	Bartl	810	12	30	0	2	0	1958	27	0	3	0	5-spot	600	14	Missi	1,000	M	Grav	22	127,750	45,625	290,000	100,000	
Savonburg	N & B Enterprises	Baker Flood	71562	10252	Baker	32-26-21E	W	20	10	Bartl	675	25	8	0	0	0	1963	3	0	3	0	5-spot	220	25	Missi	890	T	Gas Exp	31	3,000	x	3,000	x	
Total Allen County								5,127	3,798				1,012	375	47	18		675	270	26	13									8,616,183	459,715	66,503,805	5,047,117	
ALLEN-ANDERSON																																	
Colony West and Iola	Mack C. Colt, Producer	West Colony Field	49136	4401	Alexander, R. Baker, Bergman, Blohm, Bowlus, County Farm, Davenport, Gilkeson, Haldeman, Ed Kelly, Keown, Schulte, N. Vezie, S. Vezie, Victory Life, Webber	8,9,16,21,22,27,34-23-18E;3-24-18E	W	289	206	Squirrel	850	15	155	5	5	5	1955	96	17	20	1	5-spot	425	22	Missi	1,550	T	Grav	32	773,139	91,874	3,371,139	892,141	
ALLEN-BOURBON																																	
Davis-Bronson	MACE Oil Co., Inc.	McIntyre-Travis Project	---	---	Depoy, Donovan, Gillaspie, Haynes, Henninger A, Henninger B, Henninger C, Honneus, Lowe, Marshall, Purdon	34-23-21E;3,10,11,14,15-24-21E	W	275	0	Bartl	700	30	8	23	2	0	1952	15	7	0	0	Line	400	36	Prod + Missi	950	T	Grav	29	107,892	3,884	8,326,899	453,884	
ALLEN-NEOSHO																																	
Humboldt-Chanute	International Oil & Gas Corporation	MFA Project	74374	11183	Braucher, Davis, Francis-Yount, Hayworth, McCune	36-26-18E;31-26-19E; 1-27-18E	W	171	79	Bartl	810	7	35	3	2	0	1959	18	1	0	0	Irreg. 5-spot	591	31	Prod + Missi	1,010	T	S Gas	33	203,404	23,734	511,771	110,649	
Humboldt-Chanute	C. A. & Roy Willis	Seefeldt	---	4444	Seefeldt	34-26-18E;3-27-18E	P	20	0	Bartl	760	30	4	1	0	0	1955	4	0	0	0	Irreg.	400	15	Prod + Oswego	525	U	Grav	32	10,000	1,000	75,000	22,000	
Total Allen-Neosho								191	79				39	4	2	0		22	1	0	0									213,404	24,734	586,771	132,649	
ANDERSON COUNTY																																	
Bush-City-Shoestring	HGP Corporation, Inc.	Starit and Kirk	45952	---	Kirk, Starit	9,17-21-20E	W	80	10	Squirrel	811	29	38	0	0	0	1953	38	0	0	0	5-spot	800	15	*		T	Gas Exp	35	198,000	13,142	3,327,282	498,470	*Purchased from Salmon
Bush-City-Shoestring	Kewanee Oil Company	Dengo	27669*	1111*	Bandy, Brownrigg, Cleveland, Daniel, Jackson, Kretchmer, Litle, McCrabb, Oko, Victor, Woods	27,28,32,33-20-21E 4-21-21E	W	346	0	Squirrel	614	15	132	3	0	0	1944	123	3	0	8	Irreg.	750	5	Arbuc	1,451	T	S Gas	36	240,358	34,002	6,195,492	---	* 23808, 852
Bush-City-Shoestring	Kewanee Oil Company	Victor, Bandy, Daniel	56256	5985	Bandy, Daniel, Victor	32,33-20-21E 4-21-21E	W	30	0	Bartl	740	11	5	0	0	0	1958	1	0	0	0	Irreg.	750	16	Arbuc	1,451	T	S Gas	36	5,729	905	44,503	---	
Bush-City-Shoestring	Salmon Corporation	East & West Oko	---	---	Doering, Herman, Hunley, Johnson, Chas. Melcher, Class Melcher, Pugsley, Ware, Weiss, Willson	7,8,15,16-21-20E	W	370	50	Squirrel	800	30	82	0	0	0	1951	119	0	0	0	5-spot	850	17	Arbuc + Missi	1,625 1,450	T	S Gas	36	738,145	56,749	12,430,864	1,109,401	
Bush-City-Shoestring	Tex-Kan Oils, Ltd.	C & L Group	---	3177	Bodders, Croan, Gadelman, Hydorn, Roselle, Webber	8-21-21E	P	319	0	Squirrel	620	30	145	0	0	0	1941	130	7	0	0	5-spot	700	27	Prod + Arbuc	---	M	Gas Exp	35	1,270,222	21,202	20,903,000	1,064,000	
Bush-City-Shoestring	Tex-Kan Oils, Ltd.	Reed Group	---	3151	Babb-Crozier, Cochran, Dennis, Diedel, Ewing, B. Ewing, Farlow, Mullkey, Odaffer	13-21-20E	P	667	0	Squirrel	620	30	145	0	0	0	1939	130	7	0	0	5-spot	750	22	Prod + Arbuc	---	M	S Gas	36	1,384,717	55,462	30,155,000	1,098,000	
Colony-Welda	A.A. & A.W. Brecheisen	R.W. Brecheisen Lease	57709	6436	R. W. Brecheisen	35-21-19E	W	20	30	Squirrel	815	20	2	0	0	0	1958	4	0	0	0	5-spot	700	40	Prod		---	---	S Gas	33	30,600	800	75,600	---	
Colony-Welda	A.A. & A.W. Brecheisen	J.J. Summers Lease	57615	6421	Summers	34,35-21-19E	W	20	50	Squirrel	800	25	11	0	0	0	1958	3	0	2	0	5-spot	700	30	Prod + 420 Ft Sd	420	M	S Gas	34	10,396	4,380	60,596	---	
Colony-Welda	A.A. & A.W. Brecheisen		68009	9179	Buchanan, Settle	3-22-19E	W	45	25	Squirrel	800	25	8	0	3	0	1962	4	0	1	0	5-spot	700	35	Prod + 420 Ft Sd	420	U	S Gas	36	39,600	10,850	54,600	---	
Colony-Welda	J.W. Peery		---	---	Kattenhorn	27-21-19E	*	40	100	Squirrel	823	25	10	0	10	0	1960	5	5	0	0	Irreg.	300	50	Prod	---	U		35	9,000	6,000	9,000	6,000	*W + P
Colony-Welda	James E. Russell	Unit No. 1	---	---	Unit No. 1	21,27,28,33-22-19E	W	320	137	Squirrel	800	15	86	0	0	0	1948	38	0	0	0	5-spot	450	28	Missi	1,200	T	S Gas	34	381,703	24,187	3,930,569	478,998	
Colony-Welda	James E. Russell	Unit No. 2	49081	4389	Unit No. 2	28,29,32,33-22-19E	W	116	33	Squirrel	800	16	18	0	0	0	1955	15	0	0	0	5-spot	500	31	Missi	1,200	T	S Gas	34	172,688	9,347	1,314,592	150,813	
Colony-Welda	James E. Russell	Unit No. 3	53712	5363	Unit No. 3	2,3-22-19E	W	146	106	Squirrel	800	19	21	0	0	0	1957	23	2	0	0	5-spot	550	35	Missi	1,200	T	S Gas	36	394,086	8,277	1,940,347	37,293	
Colony-Welda	Woodson Pipe Line & Producing	Welda	63889	8635	Buchanan	9-22-19E	---	---	50	Squirrel	900	18	0	0	0	0	----	0	0	0	0	5-spot	0	0		---	-	Grav	32	0	0	0	0	
Colony West	W. M. Dary		71783	10327	Hill	25-22-17E	W	8	40	Squirrel	877	21	3	0	1	0	1963	4	0	4	0	5-spot	150	20	Hertha	650	U	Grav	28	6,000	150	6,000	150	
Colony West	Russell Operating Company	Colony West	---	8945	Brecheisen, Kelley, Lacy, McGhee, Wolfe	5,6-23-18E 31-22-18E	W	78	152	Squirrel	850	18	26	6	2	0	1961	26	0	0	0	Line	535	44	Salt Sd	1,100	T	S Gas	32	413,967	44,623	663,885	80,438	
Garnett Shoestring	Home-Stake Production Co.	Greeley Waterflood Project	56050	5905	John Poss, J. W. Ross, Paul Volz	2,11-20-20E	W	107	---	Squirrel	700	25	15	6	0	0	1958	21	4	0	0	5-spot	450	35	Missi	1,437	T	S Gas	30	125,127	14,085	1,424,241	84,782	
Garnett Shoestring	Salmon Corporation	Garnett Extension	59364	6935	Boots, Fooshee, Louk, Lutz	2,3,4-21-19E	W	134	---	Squirrel	760	12	36	3	0	0	1958	21	11	0	0	5-spot	680	24	Arbuc	1,660	T	S Gas	32	174,019	4,819	1,102,796	28,724	
Kincaid	W.C. Perham & D.A. McDonald	Bloom Lease	*	---	Bloom	9-23-21E	P	80	---	Bartl	750	20	15	4	0	0	1958	2	0	0	0	**	300	35	Prod + Missi	1,000	U	Grav	26	25,550	0	25,550	0	*SR 4-11-18 **Pilot Flood
Kincaid	J. Cleo Thompson		---	---	W. H. Lockwood	32-22-21E	---	---	---	Bartl	730	10	8	1	0	0	1946	0	36	0	0	Perip.	0	0	Prod	---	T	Grav	26	0	790	0	x	
Selma	Colt Oil Co., Inc.	Selma	23528	581	Cochran, Monroe, Steel	4,9-22-21E	*	108	25	Bartl	850	18	0	69	0	0	----	0	0	0	0	Line	0	0	Prod + Missi	1,100	T	Gas Exp	26	0	449	985,000	263,449	*Inactive
Total Anderson County								3,304	810				806	92	16	0		707	75	7	8									5,519,919	310,719	84,648,917	4,900,518	
BARBER COUNTY																																	
Highway	Beardmore Drilling Co.	Stewart "C" & "D" Leases	---	6393	Stewart "C" & "D"	14,15-32-11W	W	80	0	Snyder	3,550	10	2	0	0	0	----	1	0	0	0	Irreg.	500	180	Prod		M	S Gas	27	65,880	5,400	---	---	
Palmer	Crescent Oil & Gas Corp.	Elsea Unit	69344	9524	Elsea	23-32-14W	W	80	80	Viola	4,900	10	2	0	0	0	1962	1	0	0	0	Irreg.	125	86	Prod + Missi	4,500	U	S Gas	45	31,570	1,100	41,398	1,500	
Rhodes	Barbara Oil Company	Page Estate Water Flood	67709	9123	Page A, B, C and D	15,16,21,22-33-11W	W	1,506	214	Missi	4,550	18	19	28	0	0	1962	7	0	0	0	Perip.	1,566	1,250	Prod + Sh Grav	10	M	Gas Exp	23	2,991,484	0	4,974,896	0	
Rhodes	Continental Oil Company	Rhodes Mississippi WF	58203	6584	J.E. Lasswell, W.A. Newkirk	20-33-11W	P	307	0	Missi	4,433	10	18	4	0	0	1958	6	0	0	0	Irreg.	1,350	735	Surface	20	F	S Gas	25	828,394	25,928	1,363,531	72,424	
Rhodes	Gulf Oil Corporation	W. A. Newkirk	10102	---	W.A. Newkirk	17-33-11W	W	160	160	Missi	4,450	---	10	0	0	0	1963	3	0	0	0	Irreg.	803	2,798	Fresh	25	F	S Gas	29	346,000	0	346,000	0	
Rhodes	Western Petroleum Co.	Gilmore	72045	10418	Gilmore	21-33-11W	W	160	0	Missi	4,500	15	5	1	0	0	1963	1	0	0	0	Perip.	1,250	1,300	Sh Grav	30	F	S Gas	19	100,456	700	100,456	700	
Sun City	Crescent Oil & Gas Corp.	F-M-S Unit	68729	9363	Freeman, Massey A,B,C, Shutts	26,27,35-30-15W	W	320	0	Massey	4,330	20	4	2	0	0	1952	2	1	0	0	Irreg.	0	770	Fresh	30	F	S Gas	34	255,378	1,200	318,678	1,200	
Total Barber County								2,613	454				60	35	0	0		21	1	0	0									4,619,162	34,328	7,144,959	75,824	
BARTON COUNTY																																	
Ainsworth South	Skelly Oil Company	Putnam "B" Lease Waterflood	56127	5929	Putnam "B"	3-17-13W	P	80	0	Lansing	3,140	18	4	0	0	0	1957	1	0	0	0	Irreg.	0	137	Prod		U	S Gas	37	50,135	0	246,299	0	
Ames	Stebro Oil Company		---	6929	Ames, Robl	22-18-11W	D	240	0	Lans-KC	3,034*	37	4	0	0	0	1959	1	0	0	0	**	0	50	Prod		M	Grav	42	18,000	x	88,000	x	*3034 to 3070; **Abandoned producer
Barrett	National Cooperative Refinery Association	Fleming	59338	6928	Fleming	36-16-14W	W	40	0	Lansing	3,218	22	2	1	0	0	1959	1	0	0	0	Irreg.	120	387	Prod		U	S Gas	41	141,206	3,477	564,388	8,932	
Beaver	Franco Western Oil Co.	Feltes	---	4376	Feltes	8-16-12W	P	160	0	KC Group	3,035*	10	3	1	0	1	1955	1	0	0	0	**	0	400	Prod		U	S Gas	38	144,000	9,541	1,139,740	130,258	*3035-45; **Pilot flood
Beaver	National Cooperative Refinery Association	N.J. Weber "B"	72695	10665	Christians, N.J. Weber "B"	10-16-12W	W	120	0	Lans-KC	3,044	10	0	0	0	0	1964	0	0	0	0	Irreg.	0	0		---	S Gas	--	0	0	0	0	
Beaver	Sunray DX Oil Company	Kultgen	57505	6397	Kultgen	9,16-16-12W	W	40	0	Gorham	3,340	12	3	0	0	0	1958	1	0	0	0	Irreg.	250	228			U	S Gas	41	83,099	900	419,980	7,759	
Bottoms	CRA, Inc.	Zink	---	8376	Birzer, Zink	35,36-18-12W	P	50	30	Lans-KC	3,130	10	3	0	0	0	1961	1	0	0	0	Irreg.	*	244	Prod		T	S Gas	40	88,958	0	266,820	0	*Vacuum
Carroll	CRA, Inc.	Meitner	---	8400	Meitner	28-17-14W	P	80	80	Lansing	3,182	10	1	0	1	0	1963	1	0	1	0	Irreg.	*	143	Prod		T	S Gas	39	7,033	7,033	21,109	21,109	*Vacuum
Cheyenne	Vaughan Drilling, Inc.	Miller Lease	72871	10713	Miller	4-19-12W	P	160	0	KC Group	3,120	20	3	0	0	0	1957	2	0	0	0	Irreg.	100	160	Prod + Sh Sd	60	U	*	42	110,900	9,600	669,000	62,600	*Repressuring only in existance 1 month during 1963
Cheyenne View	Aladdin Petroleum Corp.	Ahrens	---	5532	Ahrens	11-19-12W	P	240	0	KC Group	3,050	20	14	0	0	0	1958	3	0	0	0	Irreg.	500	100	Prod		U	*	39	107,300	4,200	361,000	27,000	*Pumping still primary method
Cheyenne View	Aladdin Petroleum Corp.	Kultgen "A"	---	7208	Achatz, Kultgen "A"	11,12-19-12W	P	80	0	KC Group	3,100	10	1	0	0	0	1957	1	0	0	0	Irreg.	0	165	Prod		U	*	38	60,500	1,700	222,000	22,000	*Pumping still primary method
Cheyenne View	Aladdin Petroleum Corp.	Kultgen "B"	---	5719	Kultgen "B"	11-19-12W	P	80	0	KC Group	3,100	10	1	0	0	0	1957	1	0

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS Comm. No.	ORDER DOCKET NUMBERS Consv. No.	NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED Current	NUMBER OF ACRES FLOODED Add.	PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS Active	NO. OF OIL WELLS Inact.	NO. OF OIL WELLS Drld.	NO. OF OIL WELLS Abd.	DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS Active	NO. OF WATER INJECT. WELLS Inact.	NO. OF WATER INJECT. WELLS Drld.	NO. OF WATER INJECT. WELLS Abd.	WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls) WATER INJECTED	1963 (Bbls) OIL PRODUCED	TO END OF 1963 (CUMULATIVE, Bbls) WATER INJECTED	TO END OF 1963 (CUMULATIVE, Bbls) OIL PRODUCED	ADDITIONAL INFORMATION
BARTON Cont.																																	
Cheyenne View	Monsanto Company	Panning	45202	3420	Panning	11-19-12W	*	80	80	Lans-KC	**	---	4	1	0	0	1953	2	0	0	0	Irreg.	300	222	Prod		M	S Gas	41	80,909	3,735	253,297	3,735	*Reprcssuring; **-1278 SS
Cheyenne View	Sohio Petroleum Company	Heinz "A" Lease	44367	3272	Heinz "A"	12-19-12W	W	30	0	Lans-KC	3,100	17	3	0	0	0	1960	1	0	0	0	Irreg.	1,275	177	Prod		T	S Gas	40	64,740	5,713	188,541	22,064	
Ellinwood North	Alpine Oil & Royalty Company, Inc.	Hartman	69492	9555	Hartman, Lanterman	27,28-19-11W	D	160	0	Lans-KC	3,056	250	6	2	0	0	1962	2	0	0	0	Irreg.	---	1,267	Prod		T	S Gas	41	464,645	35,948	564,645	37,948	
Ellinwood North	American Petrofina Company of Texas	Schwamborn-Schauf Leases Waterflood	69786	5336	Schauf, Schwamborn	28-19-11W	W	220	100	Lans-KC	3,065	12	9	0	0	0	1961	3	0	0	0	Perip.	365	224	Prod		U	S Gas	42	326,870	1,359	685,127	17,827	
Ellinwood North	Bea Drilling Co., Inc.	Schartz "D" Lease	68161	9208	Schartz "D"	33-19-11W	W	20	100	Lans-KC	3,069	22	2	0	0	0	1962	1	0	0	0	Line	725	117	Prod		U	S Gas	43	42,758	4,015	58,744	7,300	
Ellinwood North	Pan American Petroleum Corporation	Schartz Waterflood	58823	---	N.J. Schartz	33-19-11W	W	40	0	Lansing	3,060	5	2	0	0	0	1961	1	0	0	0	Irreg.	198	248	Prod		U	S Gas	38	72,286	5,036	201,298	24,296	
Erna Southeast	Colorado Oil & Gas Corp.	Russell "B" Lease	65729	8604	Russell "B"	29-18-14W	P	120	0	Lans-KC	3,258	210	2	0	0	0	1961	1	0	0	0	Irreg.	0	58	Prod		U	S Gas	45	21,245	0	56,838	0	
Fort Zarah	Crescent Oil & Gas Corp.	Schartz Flood	60591	7196	Schartz	34-19-12W	W	160	0	Lans-KC	3,300	230	3	0	0	0	1959	0	1	0	0	Irreg.	0	0	Prod + Arbuc	3,400	U	S Gas	35	0	0	4,000	0	
Great Bend Airport	Petroleum Mgmt., Inc.	Great Bend Airport	53715	5366	Essmiller "A", Opie	26-19-14W	W	320	0	Lans-KC	3,188	240	4	2	0	0	1957	1	1	0	0	Irreg.	*	360			U	S Gas	34	115,200	6,425	979,200	22,425	*Vacuum
Hammeke West	Nadel and Gussman	Hammeke Lease	64716	8335		18-19-11W	W	30	0	Lans-KC	3,142	10	3	0	0	0	1961	1	0	0	0	Irreg.	100	100	Prod + Fresh	100	M	S Gas	39	36,500	7,000	164,350	24,000	
Hammer	Crescent Oil & Gas Corp.	Hammer Waterflood	70105	9812	Birzer, Hammer B, Johanning	35,36-19-12W	W	80	100	Lans-KC	3,100	220	7	0	0	0	1963	3	0	0	0	Irreg.	600	134	Fresh	50	F	S Gas	35	140,899	7,580	140,899	7,580	
Hammer	Pickrell Drilling Co.	Hammer Waterflood	70085	9801	Panning	35-19-12W	W	80	0	KC Group	3,310	5	3	0	0	0	1963	2	0	0	0	Line	250	166	Alluvium	10	F	S Gas	42	121,798	10,111	121,798	10,111	
Heiser Southwest	Colorado Oil & Gas Corp.	Hall Lease	59716	6983	Hall	28-19-14W	D	100	0	Lans-KC	3,200	244	1	0	0	0	1959	1	0	0	0	Irreg.	*	175	Prod		U	S Gas	36	63,765	700	138,610	11,200	*Vacuum
Hiss South	Petroleum, Inc.	Hiss South	57253	6301	Benjamin	31-20-13W	*	320	0	Lans-KC	3,292	313	1	---	0	0	1958	1	0	0	0	Irreg.	350	80	Prod + Arbuc	3,292**	T	S Gas	37	23,437	5,226	112,629	32,844	*Disposal; **3292 & 3542
Kimpler	Martin Oil Company	Kimpler Waterflood	---	---	Kimpler	31-18-11W	D	160	0	Lans-KC	3,150	5	2	0	0	0	1961	1	0	0	0	Irreg.	---	100	Prod		U	Wat + S Gas	40	36,500	10,797	85,200	24,857	
Kraft-Prusa	Colorado Oil & Gas Corp.	Esfeld Lease	69497	9560	Esfeld	29-16-11W	W	160	0	Dougl	2,960	15	6	0	0	0	1963	1	0	0	0	Irreg.	*	400	Prod		U	S Gas	36	112,312	6,807	112,312	6,807	*Vacuum
Kraft-Prusa	National Cooperative Refinery Association	Paul Dolechek	56796	6187	Paul Dolechek	24-16-12W	W	120	0	Gorham	3,354	9	5	0	0	0	1958	1	1	0	0	Irreg.	0	376	Prod		U	Wat	42	137,345	7,923	1,058,433	28,168	
Kraft-Prusa	National Cooperative Refinery Association	Dolechek Estate	67974	9163	Dolechek	24-16-12W	W	70	0	Gorham	3,359	11	4	0	0	0	1962	2	0	0	0	Irreg.	100	166	Prod + Cheyenne	525	M	Wat	42	121,223	6,911	261,272	9,071	
Kraft-Prusa	National Cooperative Refinery Association	A. Janssen "B"	71811	10340	A. Janssen "B"	6-17-11W	W	10	0	Lansing	3,159	12	1	0	0	0	1963	1	0	0	0	Irreg.	0	16	Prod		U	S Gas	38	4,349	184	4,349	184	
Kraft-Prusa	National Cooperative Refinery Association	Joseph	64715	8334	Joseph	32-16-11W	W	10	20	Dougl	3,005	14	1	0	0	0	1961	1	0	0	0	Irreg.	450	304	Prod		U	Wat	40	111,126	0	274,844	0	
Kraft-Prusa	National Cooperative Refinery Association	Valenta	67999	9177	Valenta	31-16-11W	W	10	20	Dougl	2,976	8	1	0	0	0	1962	1	0	0	0	Irreg.	450	214	Prod		U	Wat	42	78,170	4,770	162,820	4,770	
Kraft-Prusa	National Cooperative Refinery Association	F & N Weber	72268	10500	F & N Weber, Nick Weber	12,13-16-12W	W	120	0	Lans-KC	3,180	20	4	0	0	0	1963	1	0	0	0	Irreg.	200	96	Prod		U	S Gas	39	5,866	0	5,866	0	
Kraft-Prusa	Morris Sitrin, Inc.	Staatz	69065	9424	Norris "A" & "B", Praeger, Staatz	26,27-17-11W	P	425	0	KC Group	3,099	11	6	0	0	0	1962	1	0	0	0	Irreg.	---	325	Grt W	3,280	M	Grav	34	118,169	11,759	182,285	14,811	
Otis-Albert	Herman George Kaiser, Oil Producer	Merten	60756	7226	Merten	4-19-15W	D	80	0	Basil	3,565	20	2	0	0	0	1959	1	0	0	0	Line	0	4	Prod		U	Gas Exp	38	1,219	0	1,219	0	
Otis-Albert	Albert Sullivan	Arnold	64667	8299	Arnold	8-19-15W	P	160	0	Reagan	3,651	16	3	0	0	0	1961	1	0	0	0	Irreg.	150	600	Prod		U	Wat	35	215,000	7,000	600,000	18,000	
Otis-Albert	Sunray DX Oil Company	G. Schultz	57273	6311	G. Schultz	5-19-15W	W	80	0	Reagan	3,626	15	2	1	0	0	1958	1	0	0	0	Irreg.	0	126			U	Wat	34	45,930	0	747,603	0	
Prairie View	Arthur Morgenstern Oil Operations	Prairie Pool Flood	---	---	John Schartz	20-19-11W	W	160	---	KC Group	3,200	150	5	2	0	0	1956	2	0	0	0	Irreg.	500	275	Prod + Surface	40	M	S Gas	38	20,000	3,600	60,000	10,000	
Pritchard	Phillips Petroleum Co.	West Hiss Unit	60238	---		36-20-14W	W	130	0	Lans-KC	3,350	50	5	0	0	0	1959	2	0	---	---	Irreg.	0	433	Prod		U	S Gas	40	316,410	5,371	1,331,944	12,565	
St. Peter	Texaco Inc.	St. Peter	69095	9431	H. & T. Schlochtermeier	32,33-18-11W	W	320	---	Lansing + Platt	2,900 + 3,100	25	8	---	---	---	1962	2	---	---	---	Perip.	0	125	Prod		U	S Gas	42	93,743	0	94,833	0	
Sandrock	Schermerhorn Oil Corp.	Sandrock Unit	70150	---	Jackson, Morrison, Weathers	27,28-20-13W	W	60	0	Lans-KC	3,400	20	4	0	0	0	1962	2	0	0	0	Irreg.	40	400	Prod + Tertiary	6	M	S Gas	29	212,788	14,812	216,684	15,438	
Trapp	Aladdin Petroleum Corp.	Soderstrom	---	5560		21-17-13W	P	160	0	KC Group	3,165	10	2	0	0	0	1957	2	0	0	0	Irreg.	250	205	Prod		U	*	40	150,200	9,000	932,000	76,600	*Pumping still primary method
Trapp	Elliott G. Bloch	Maier	---	9840	Maier	9-16-13W	D	160	0	Lans-KC	3,290	5	1	0	0	0	1962	1	0	0	0	Irreg.	0	60	Prod + Arbuc	3,392	U	Gas Exp	37	22,464	3,105	22,749	3,105	
Total Barton County								5,985	690				164	11	1	1		65	3	1	0									4,635,215	280,726	16,515,975	1,117,165	
BARTON-RICE																																	
Mary Ida	Sohio Petroleum Company	Mary Ida Unit	66779	9151	Buehler, Doll, Manke, Mooney, Musenberg, Reif A & B	31-18-10W;36-18-11W	W	370	0	Lans-KC	3,100	21	18	0	0	0	1962	7	0	0	0	Perip.	1,900	191	Prod	130	M	S Gas	39	485,746	26,162	680,622	36,043	
BARTON-STAFFORD																																	
Bart-Staff	National Cooperative Refinery Association	Bart Staff	71080	10131	Boyd, Dorfshaffer, McGreevy "A", McGreevy "B"	33-20-14W; 4,5-21-14W	W	320	160	Lansing	3,330	180	8	1	0	0	1963	2	0	2	0	Irreg.	500	362	Prod	---	U	S Gas	31	105,650	5,988	105,650	5,988	
BOURBON COUNTY																																	
Bronson-Xenia	Bourbon Oil Company		---	---	Ermel, Kastl, Zigler	5,8,17-24-22E	P	160	600	Bartl	650	15	6	0	5	0	----	0	1	0	0	5-spot	350	50	Prod		U	Grav	29	14,600	1,825	x	x	
Davis-Bronson	Albert H. Markham	Honneus Lease	---	---	Honneus	11-24-21E	W	40	280	Bartl	660	22	10	2	0	0	1955	1	x	0	0	5-spot	320	12	*		T	Grav	29	2,400	---	---	300	*Purchased from adjoining lease
Davis-Bronson	I. J. Newlin	Davis Lease	60601	7199	Davis	23,26-23-21E	P	80	80	Bartl	610	20	24	0	0	0	1959	12	0	0	0	5-spot	180	60	Prod + Lake		M	Wat	27	140,440	3,111	421,320	21,000	
Davis-Bronson	Newlin & Newlin	Davis	---	---	Davis	23,26-23-21E	P	60	400	Bartl	600	20	0	0	0	0	----	---	---	---	---	Line	180	30	Prod + Lake		M	Wat	--	4,500	3,150	225,000	17,000	
Hepler	Walter Duncan	Hepler Unit	66478	8780	Freeman, Jackson, Johnson, Shireman	24-27-21E;19-27-22E	W	130	0	Tucker	675	14	39	---	1	1	1961	42	0	0	0	5-spot	400	22	Missi	800	F	S Gas	26	301,713	58,071	728,310	177,810	
Total Bourbon County								470	1,360				79	2	6	1		55	1	0	0									463,653	66,157	1,374,630	216,110	
BUTLER COUNTY																																	
Augusta	Cities Service Oil Co.	Augusta Unit	72041	10415	Augusta Unit	2,10,11,14,15-28-4E	W	120	1,630	KC Group	2,030	10	14	0	2	0	1963	4	0	4	0	5-spot	150	524			U	S Gas	36	163,426	11,644	163,426	11,644	
Augusta	Cities Service Oil Co.	Skaer-Starkey	69852	9719	Skaer, Starkey	35-27-4E	W	320	0	KC Group	2,030	8	15	0	0	2	1962	8	0	0	1	5-spot	280	204	Arbuc	2,808	T	S Gas	36	596,719	79,114	626,137	79,712	
Augusta	Cities Service Oil Co.	Varner Kansas City	64638	8282	Varner	8,17-28-4E	W	40	0	KC Group	1,990	15	5	0	0	0	1961	1	0	0	0	Irreg.	590	516	Prod		U	S Gas	36	732,699	11,624	2,135,053	31,442	
Augusta	Hammer & Maclean	Ambler	58065	6541	Ambler	2-28-4E	D	320	0	Simp	2,617	13	4	0	0	0	1958	1	0	0	---	None	0	123	Prod		U	Grav	33	45,000	2,487	153,000	154,291	
Augusta	Wilbur C. Skaer	Safford	---	---	Safford	26-27-4E	D	80	---	Simp	2,350	10	2	1	0	0	1960	1	0	0	0	Irreg.	---	100	Prod		U	Grav	34	40,000	0	100,000	0	
Augusta North	Morris Sitrin, Inc.	Loomis	60958	7277	Loomis	15-27-4E	P	80	0	Simp	2,492	26	3	0	0	1	1959	1	0	0	0	Irreg.	---	21	Prod		M	Grav	39	7,665	3,341	28,337	20,782	
Augusta North	Robert F. White	Scully "C"	47438*	4049*	J.C. Scully	2-27-5E	W	80	0	KC Group	2,000	15	2	0	0	0	----	2	0	0	0	Irreg.	300	165	Prod		U	S Gas	34	120,000	3,500	510,000	14,000	*50278, 4682
Combs Northeast	Kewanee Oil Company	Gate-Veed	63491	7926	Gate, Veed	27,34-29-5E	W	50	0	Bartl	2,817	8	2	0	0	0	1960	1	0	0	0	Irreg.	370	371	Gravel	328	M	S Gas	39	135,300	1,210	337,073	2,316	
Elbing	CRA, Inc.	North Lathrop	---	7145	North Lathrop	17-23-4E	P	40	40	Lans-KC	1,950	30	5	0	0	0	1959	1	0	0	0	Irreg.	*	307	Prod		T	S Gas	35	111,969	10,686	447,311	61,835	*Vacuum
Elbing	CRA, Inc.	South Lathrop	---	8005	South Lathrop	17-23-4E	P	50	30	KC Group	2,970	30	7	0	0	0	1960	1	0	0	0	Irreg.	350	491	Prod		T	S Gas	35	179,308	1,860	492,371	9,616	
El Dorado	Abels Oil Company	Jackson B	---	---	Jackson B	24-25-4E	D	10	0	Miss Chat	2,500	60	9	0	0	0	----	0	1	0	0	Irreg.	x	x	Prod		U	Wat	40	x	0	x	0	
El Dorado	Abels Oil Company	Jones	---	6813	Jones	25-25-4E	W	40	40	El Dorado	600	10	4	2	0	1	1958	3	0	1	0	Irreg.	600	200	Prod + Shallow	90	M	Wat	36	80,000	1,400	236,000	19,500	
El Dorado	R. P. Baker Drilling Co.	Wilson	47548	4077	Wilson	22,27-25-5E	*	40	310	Viola	2,553	10	3	0	0	0	1960	1	0	0	0	Irreg.	500	250			U	Wat	36	90,000	0	250,000	0	*Redrilled
El Dorado	Cities Service Oil Co.	Chesney Douglas	57616	6422	Chesney	21-25-5E	W	130	0	Dougl	1,400	28	10	3	0	2	1958	9	0	0	0	5-spot	478	356	Prod		T	S Gas	35	1,169,266	71,884	4,393,947	572,883	
El Dorado	Cities Service Oil Co.	Chesney Kansas City	57369	6331	Chesney, Hegberg, Knox, Mills	21,22,28-25-5E	W	432	0	KC Group	1,900	33	27	0	0	0	1938	26	0	0	0	5-spot	473	233	Prod		T	S Gas	36	2,212,218	271,522	7,494,896	1,156,000	
El Dorado	Cities Service Oil Co.	El Dorado 550	45457*	3477*		19,21,28,29,30-25-5E	W	739	494	El Dorado	550	6	54	0	9	0	1952	58	0	0	0	5-spot	453	97	Prod		T	S Gas	36	2,052,849	194,781	7,699,327	795,247	*14534, 130: 54044, 5425: 33866, 1722: 40503, 2571: 40621, 2583: 47059, 3966
El Dorado	Cities Service Oil Co.	El Dorado Shallow Sand	45457*	3477*		19,20,21,22,28,29,30, 31,32,33,34-25-5E; 3,6-26-5E;25,36-25-6E	W	2,334	0	El Dorado	650	13	278	0	0	50	1947	284	0	0	36	5-spot	500	123	Prod		T	S Gas	36	12,787,175	614,635	159,928,578	12,285,468	*14534, 130: 54044, 5425: 33866, 1722: 40503, 2571: 40621, 2583: 47059, 3966
El Dorado	Cities Service Oil Co.	Enyart-Kansas City	70707	10002	Abraham, Enyart, Paulson, Ralston	1,2,12-26-4E	W	129	871	KC Group	2,000	21	4	0	3	0	1963	5	0	5	0	5-spot	200	342	Prod		---	S Gas	36	469,944	2,687	469,944	2,687	
El Dorado	Cities Service Oil Co.	Finney Simpson	54531*	5493*	Finney, Fulkerson, Graham "C", D.L. Hoge, Millheisler "A" & "B", Pierpont, Thompson	33-25-5E;4,9-26-5E	W	523	80	Simp	2,480	27	34	0	0	5	1950	16	0	0	0	5-spot	210	628	Prod		T	S Gas	36	3,669,996	174,200	14,317,452	1,392,871	*40509, 2577
El Dorado	Cities Service Oil Co.	Koogler	38320*	2221*	Hess, Houston, Kirkpatrick "B", Koogler, Richards, Watts	13,24-26-4E;17,18,19, 20-26-5E	W	1,716	0	Simp	2,550	60	111	0	0	2	1948	89	0	0	10	5-spot	0	294	Prod		T	S Gas	36	9,554,205	157,573	100,231,743	7,360,143	*39042, 2342; 50045, 4623; 40506, 2574; 46257, 3777: C-4992
El Dorado	Cities Service Oil Co.	Pirtle Shallow	58423	6672*	Atkins, Deming, Hazlett "D", Pirtle	19,20-25-5E	W	181	0	El Dorado	725	11	17	0	0	5	1958	20	0	0	1	5-spot	525	102	Arbuc	2,500	T	S Gas	36	747,629	39,731	4,271,230	381,711	*Plus other orders for the El Dorado Shallow
El Dorado	Cities Service Oil Co.	Stokes Kansas City	70087	9803	Hegberg, Pierpoint, Stokes, B. Stokes	28,29,32,33-25-5E	W	261	649	KC Group	1,900	21	17	0	9	0	1962	8	0	4	0	5-spot	175	238	Prod		T	S Gas	36	695,832	62,045	765,526	65,314	
El Dorado	Cities Service Oil Co.	Wilson 550	45457	3477	Wilson	7,8,9-25-5E	W	176	33	El Dorado	600	7	19	0	1	0	1961	21	0	5	0	5-spot	470	111	Prod		T	S Gas	36	848,837	79,865	1,722,300	201,164	
El Dorado	Cities Service Oil Co.	Wilson 650	45457	3477	Wilson	7,8,9-25-5E	W	235	0	El Dorado	680	9	29	0	0	4	1954	35	0	0	7	5-spot	500	172	Prod		T	S Gas	36	2,191,641	78,948	23,576,207	1,450,834	
El Dorado	Cities Service Oil Co.	Wilson Burlingame	67351	9083	Wilson	8-25-5E	W	31	x	Burli	800	10	2	0	1	0	1962	3	0	0	0	5-spot	412	167	Prod		T	S Gas	36	304,670	1,946	553,513	3,828	
El Dorado	Cities Service Oil Co.	Wilson Kansas City	51231	4874		7,8,9-25-5E	W	536	0	KC Group	2,000	44	29	0	0	0	1956	33	0	0	0	5-spot	500	252	Prod		T	S Gas	36	3,034,921	227,405	13,916,649	1,372,784	
El Dorado	Cities Service Oil Co.	Wilson Simpson	49135	4400	Wilson	8,9-25-5E	W	121	0	Simp	2,550	38	11	0	0	2	1955	10	0	0	0	Irreg.	487	156	Prod		T	S Gas	36	570,008	104,931	3,332,615	850,073	
El Dorado	General American Oil Company of Texas	El Dorado (Admire) Flood	50187	4657	J.F. & L.W. Robison	16-25-5E	W	150	0	Admire	650	20	13	3	0	0	1956	11	0	0	0	Line	538	171	Prod + Viola		T	S Gas	38	687,924	16,168	3,044,405	190,285	
El Dorado	Gulf Oil Corporation	A.J. Shumway Lease-Coop. Waterflood	---	4830	A.J. Shumway	11-26-4E	W	40	120	KC Group	1,950	30	4	0	1	0	1963	2	0	2	0	5-spot	112	436	Prod + Arbuc	2,300	U	S Gas	33	247,669	9,740	247,669	9,740	
El Dorado	The Henderson Oil Co.	Wilson	47641	4099	Wilson	7-25-5E	D	40	0	Miss Chat	2,560	15	3	0	0	0	1954	1	0	0	0	Irreg.	30	730	Prod		U	Wat	40	262,800	0	1,172,150	0	
El Dorado	K & B Producers, Inc.		---	2551	W.A. Page	9-26-5E	W	20	0	Vi + Simp	2,600	x	2	0	0	0	1950	1	1	0	0	Line	150	226	Prod		T	Grav	36	82,396	6,725	999,491	90,104	
El Dorado	Saco Oil Company		---	---	Belton	3-25-5E	*	40	---	Peru	2,227	12	1	---	0	0	1959	1	---	---	---	Irreg.	**	120	Prod		U	Grav	35	43,800	5,610	219,000	25,188	*Part pressure, part dump; **0-75
El Dorado	Morris Sitrin, Inc.	Brown	60221	7096	Brown	32-26-5E	P	160	0	Viola	2,692	12	4	0	0	0	1959	1	0	0	0	Irreg.	---	494	Prod		M	Grav	32	147,460	7,712	468,411	40,721	
El Dorado	Morris Sitrin, Inc.	Cook	61343	7355	Cook	4-26-5E	P	40	0	Vi + Simp	2,640	60	4	0	0	0	1959	1	0	0	0	Irreg.	---	852	Prod		M	Grav	36	310,980	8,876	1,002,250	47,642	
El Dorado	Morris Sitrin, Inc.	Mills	64395*	8192*	Mills	27-25-5E	P	160	0	El Dorado + KC Group + Dougl	700 +2,000 2,500		33	0	0	4	1959	17	0	0	3	Irreg.	---	181	Prod		M	Grav	36	1,121,579	79,057	5,086,213	394,581	*57328, 6333; 64982, 8336
El Dorado	Socony Mobil Oil Company, Inc.	N.A. Koogler	42887	3016	N.A. Koogler	25-26-4E;21,29,30, 32-26-5E	W	265	0	Vi + Simp	2,400	40	30	8	1	0	1951	20	10	0	0	Perip.	*	394	Prod		U	S Gas	34	2,875,000	69,000	40,780,000	2,841,000	*Vacuum
El Dorado	Texaco Inc.	El Dorado Project	45774	3597		17-25-5E	W	170	---	Indian Cave	700	14	7	6	---	4	1954	10	5	---	---	5-spot	500	275	Prod		U	S Gas	36	714,466	8,719	6,942,587	351,198	
El Dorado	Florence Ward, et al	Jackson A.	---	---	Jackson A.	24-25-4E	D	80	0	Stapelton	750	15	3	0	1	---	1953	1	0	0	0	Irreg.	600	---	Prod		U	Grav	34	11,000	1,500	100,000	15,000	
El Dorado	R. J. Wixson	Morgan	---	8319	Banks, Morgan	13-25-4E	D	180	0	Miss Chat	2,615	59	3	0	0	0	1960	1	0	0	0	*	0	25	Prod		U	Grav	40	26,000	0	78,000	0	*Regular location
Ferrell	Holly Oil Company	Ferrell Lease	53437	5287	Ferrell	21-28-8E	P*	480	0	Missi	2,750	30	17	3	0	0	1955	2	0	0	0	Irreg.	800	1,100	Prod		U	Wat + S Gas	37	13,693	26,575	x	x	*Recycling
Fox-Bush	H. H. Blair Oil Company	Naden	---	6254	Doyle, Naden	13,14-29-5E	D	280	0	Bartl	2,802	12	6	0	0	0	1960	5	0	0	0	Irreg.	670	240	Fresh	325	F	Grav	38	70,188	10,393	214,459	14,965	*5 to 55
Fox-Bush	Morrison Producing Co.	North Unit	35776	1909	Brown, Leonard Brown, Fox, Haggert, Haver, Jackson, Maynard, Myers, Naden, Perisho, Price, Sooter	35,36-28-5E:1,2,11,12, 13-29-5E;18-29-6E	W	1,510	0	Bartl	2,800	*	35	---	3	4	1947	36	0	1	0	5-spot	25	120	Prod + Wreford	330	T	Gas Exp	42	1,548,000	108,721	---	1,762,900	
Fox-Bush	Morris Sitrin, Inc.	Brown	33035	1650	Brown	25-29-5E	P	72	0	Bartl	2,735	45	1	0	0	0	1959	1	0	0	0	Irreg.	---	77	Fresh	900	F	Grav	40	28,105	8,010	154,275	39,216	
Fox-Bush	O. A. Sutton	Hedderman	---	8709	Hedderman, Sowers "A", Sowers "B"	13,24-28-5E;18,19-28-6E	W	480	0	Bartl

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS		NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED		PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS				DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS				WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls)		TO END OF 1963 (CUMULATIVE, Bbls)		ADDITIONAL INFORMATION
			Comm. No.	Consv. No.				Current	Add.				Active	Inact.	Drld.	Abd.		Active	Inact.	Drld.	Abd.								WATER INJECTED	OIL PRODUCED	WATER INJECTED	OIL PRODUCED	
GRAHAM Cont.																																
Shiloh	Empire Drilling Company	Shiloh Water Flood Unit	---	---	Minium, Richmeier "A", Richmeier "B"	35-8-25W;1,2-9-25W	D	400	0	Lans-KC	3,825	200	7	0	0	0	1961	1	0	0	0	Perip.	*	115	Prod		T	Grav	38	41,718	0	59,785	0	*Vacuum
Shiloh	Prime Drilling Company	Minium "B"	10101	---	Minium	36-8-25W;1-9-25W	P	160	0	Lans-KC	3,800	7	1	0	0	0	1963	1	0	0	0	Irreg.	20	20	Prod		U	Wat	40	4,800	14,400	4,800	20,000	
Van	National Cooperative Refinery Association	Van Loenen	71784	10328	Van Loenen	14-9-22W	W	160	0	Lans-KC	3,497	15	7	0	0	0	1963	1	0	1	0	Irreg.	700	351	Prod		U	S Gas	37	26,677	0	26,677	0	
Van	Producers Oil Company	Sandzen No. 1	---	8111	Sandzen No. 1	14-9-22W	D	80	80	Arbuc	3,858	8	1	0	0	0	1960	1	0	0	0	Irreg.	0	126	Prod		T	Wat	24	45,990	1,551	125,090	3,924	
Van	Rock Island Oil & Refining Company, Inc.	Sandzen Waterflood	61185	7334	Sandzen	14-9-22W	W	20	40	Lans-KC	3,550	20	6	0	0	0	1959	1	0	0	0	Irreg.	100	120	Prod		U	S Gas	36	44,000	5,500	175,200	12,070	
Vesper	Petroleum, Inc.	Vesper Unit	71237	10172	Lacerte "C", Manaugh, Rice, Sutor "E", Vesper	31-9-22W;36-9-23W	W	640	0	Lans-KC	3,640	220	22	2	0	0	1963	4	0	0	0	Line	*	517	Prod + Dakota + Cheyenne	800 1,200	M	S Gas	40	258,458	16,010	258,458	16,010	*Vacuum
Total Graham County								9,701	520				223	8	0	1		71	5	1	0								4,491,534	359,236	7,920,081	567,884	
GRAHAM-TREGO																																
Diebolt	Imperial Oil of Kansas, Inc.	Imperial: Wakeeney-Coop Waterflood Unit	58907	6808	Delaney, Diebolt, Erickson, Osborn, Surmeier, Walker	33-10-23W; 4,5,9-11-23W	P	640	560	Lans-KC	3,588	4	13	1	0	0	1959	2	0	0	0	Irreg.	0	570	Prod		U	S Gas	40	413,910	18,500	2,369,910	54,273	
GREENWOOD COUNTY																																
Atyeo-Pixlee	R. J. Wixson	York-Pixlee	---	8384	Pixlee "B", State Street	8-22-10E	D	160	0	Bartl	2,240	30	3	0	0	0	1960	1	0	0	0	*	0	100	Prod		U	Grav	40	36,500	0	78,000	0	*Regular location
Beaumont	K. T. Wiedemann Trust	Water Flood	71218	---	Lewis	25,35,36-27-8E	D	40	200	Peru	1,851	25	0	11	0	0	1963	1	0	0	0	Irreg.	0	222	Prod		T	Grav	33	5,343	0	5,343	0	
Beaumont South	K. T. Wiedemann Trust	Edgar	72720	10680	W.W. Edgar	2-28-8E	D	50	0	Missi Dol	2,493	24	1	0	0	0	1963	1	0	0	0	Irreg.	0	15	Prod		T	Grav	36	105	0	105	0	
Browning	GMW, Inc.	Prather	56026	5899	Prather	30-22-10E	P	320	0	Bartl	2,500	35	1	0	0	0	1958	1	0	0	0	Irreg.	0	915	Bartl	2,515	U	Gas Exp	38	333,975	13,877	2,577,975	186,225	
Browning	E. C. (Pat) Murphy	Browning	---	6429	Browning	18-22-10E	P	80	---	Bartl	2,280	40	4	3	0	1	1958	2	1	0	0	5-spot	300	250	Prod + Dougl	1,200	T	Grav	39	182,500	9,827	x	x	
Browning	Phillips Petroleum Co.	Burkett Unit	24972*	---		13,23,24,26,27-23-10E; 18-23-11E	W	724	0	Bartl	2,100	31	53	18	2	0	1942	24	30	1	0	5-spot	625	88	Prod + Dougl	1,000	U	S Gas	41	827,822	96,157	58,770,071	6,098,326	*25499, 25500, 25501, 25502
Burkett																																
DeMalorie-Souder	L. B. Campbell	Clopton Lease	---	---	Clopton	18-22-11E	D	40	0	Bartl	2,100	30	2	0	0	0	----	1	0	0	0	5-spot	350	100	Prod + Bartl	2,100	U	Wat	41	27,000	1,500	x	x	
DeMalorie-Souder	L. B. Campbell	Derbyshire Lease	43418	3103	Derbyshire	13-22-10E	W	---	---	Bartl	2,130	30	7	1	0	0	1952	1	0	0	0	Irreg.	*	170	Dougl	1,000	U	Wat	41	61,000	25,000	396,000	135,000	*Vacuum
DeMalorie-Souder	Home-Stake Production Co.	Harris Waterflood Project	68481	9297	Kipfer "A", "B", "C", "D", Warrensburg	12,13-22-10E	W	280	---	Bartl	2,150	25	19	0	0	0	1962	12	0	0	0	5-spot	230	160	Prod + Arbuc	2,735	F	S Gas	39	491,970	42,635	647,840	56,436	
DeMalorie-Souder	Moss Petroleum Company	Kipfer Lease	71785	10329	Kipfer	13-22-10E	P	40	0	Bartl	2,150	30	3	0	2	0	1963	1	0	1	0	Line	70	35	Prod		U	S Gas	45	4,250	8,960	4,250	8,960	
DeMalorie-Souder	Phillips Petroleum Co.	DeMalorie-Sowder Unit	---	---		1,2,11,12-22-10E	W	660	0	Bartl	2,100	55	34	3	0	0	1949	34	5	0	0	5-spot	1,100	89	Prod		T	S Gas	40	1,111,817	91,630	28,811,585	2,894,644	
DeMalorie-Souder	Phillips Petroleum Co.	Pix Unit	37071	---		3,10-22-10E	W	40	0	Bartl	2,100	55	2	1	0	0	1948	1	2	0	0	5-spot	1,000	84	Prod		T	S Gas	41	30,600	2,873	1,582,762	134,901	
DeMalorie-Souder	George Sheehan Interests	De Malorie Sowder	37072	2072	Clopton	18-22-11E	W	160	0	Bartl	2,100	20	6	0	0	0	1932	6	0	0	0	5-spot	350	60	Prod		T	S Gas	42	72,000	13,923	x	x	
DeMalorie-Souder	George Sheehan Interests		---	2309	Harris	19-22-11E	*	80	0	Bartl	1,900	20	1	0	0	0	----	---	---	---	---	5-spot	---	---	Prod		---	S Gas	40	---	1,060	---	---	
Dunaway	C. A. Aikman	Cora and John Povenmire	---	---	Cora, John Povenmire	15,22-22-13E	D	80	0	Burgess	1,800	10	4	0	1	0	1961	1	---	0	0	5-spot	---	---	Prod		U	Wat	38	43,800	45	x	45	
Dunaway	Sauder Heirs	Sauder Heirs	54998	5619	Ale Oil Co.-Sauder Heirs	3-23-13E	*	120	320	Missi	1,800	15	7	0	1	0	1957	3	1	0	0	Irreg.	50	15	Prod + Dougl	750	U	Grav	39	16,000	1,200	47,000	19,200	*Combination
Dunaway	Valley Oil Company		---	2252	Miller, Norris	27-22-13E	P	40	80	Missi + Burgess	1,800	20	3	2	0	0	1956	2	0	0	0	Irreg.	200	280			T	S Gas	38	75,200	0	750,000	0	
Fankhouser	George A. Barnard	Swanson Unit	---	877*	Swanson	9,10-22-12E	D	80	160	Bartl	1,800	15	2	3	0	0	----	1	0	0	0	Irreg.	0	30	Prod		U	Grav	39	10,800	1,440	x	x	*C-2492
Fankhouser	George Sheehan Interests	Fankhauser Pool	---	883	Fankhauser	4-22-12E	W	560	0	Bartl	1,900	25	6	0	3	0	----	4	---	---	---	5-spot	300	200	Prod		---	S Gas	40	72,000	14,150	---	---	
Gaffney	Ward A. McGinnis	Kipfer	---	5079	Kipfer	6-24-11E	P	160	40	Bartl	1,900	20	10	---	0	0	1957	5	0	0	0	Perip.	350	100	Prod + Dougl	900	T	Grav	40	182,500	12,449	1,277,500	238,959	
Gaffney	Roy A. Wilson	Geo. Gaffney	---	---	Geo. Gaffney	7-24-11E	D	40	240	Bartl	1,880	15	2	0	0	0	----	1	0	0	0	5-spot	*	60	Prod		U	Grav	42	21,900	5,824	x	x	*Gravity
Lamont	Jackman & Jackman	Fankhauser	---	7362	Fankhauser	23-22-12E	P	160	---	Bartl	1,660	20	9	4	0	0	1959	4	1	0	0	Irreg.	400	100	Prod + Dougl	830	T	Grav	38	146,000	36,783	---	---	
Lamont	George Sheehan Interests	Lamont Block	46559	3863	Blanck, Luthi	29-22-13E	W	320	---	Bartl	1,700	15	11	0	0	0	1954	13	0	0	0	5-spot	470	75	Prod		T	S Gas	38	330,000	15,517	x	x	
Lamont	George Sheehan Interests	Schnab	---	870*	Schnab	30-22-13E	W	80	0	Bartl	1,900	20	1	0	0	0	----	---	---	---	---	Line	---	---	Prod		---	S Gas	37	66,000	2,200	---	---	*C-3863
Lamont	Wood Oil Company	Polhamus Waterflood	---	---	Marshall, North Dibert	34-24-9E;3-25-9E	W	240	0	Bartl	2,250	33	*	---	0	13	1949	4	---	---	8	Irreg.	---	---	Prod		U		40	449,816	7,558	19,825,016	1,127,833	*Jan. 1, 1963-17; Dec. 31, 1963-4
Polhamus																																
Quincy	Bird-Hanley & Sheedy	Quincy	41156	2676	Hoggatt, Webber, etc.	8,9-25-13E	W	115	20	Bartl	1,500	13	11	2	0	0	1951	12	2	0	0	5-spot	275	24	Prod + KC Group	870	T	S Gas	37	102,824	8,692	1,335,946	127,819	
Quincy	Bird-Hanley & Sheedy	Northwest Quincy	49536*	2429*	Gilroy, Shaw, etc.	31-24-13E;5,6-25-13E	W	200	80	Bartl	1,550	25	23	5	0	0	1950	18	1	2	0	5-spot	300	40	Prod + Dougl + KC Group	300 870	T	S Gas	36	259,735	12,375	1,596,314	86,839	*24829, 727
Sallyards	Marathon Oil Company	Bryden-Ladd	45478	3482	Bryden A/c #1, #2, #3, L.A. Ladd	36-25-8E;31-25-9E	W	182	0	Bartl	2,400	40	15	4	0	0	1953	5	7	0	0	5-spot	850	1,099	Dougl	1,360	T	S Gas	39	401,141	36,679	5,112,469	1,697,490	
Sallyards	Marathon Oil Company	Hoffman	45478	3482	H. Hoffman A/c #1	30-25-9E	W	71	0	Bartl	2,400	40	5	3	0	1	1951	5	2	0	1	5-spot	850	636	Prod + Dougl	1,360	T	S Gas	40	232,235	6,714	2,737,916	301,999	
Sallyards	Marathon Oil Company	Ladd Unit	45478	3482	F. Koss	30-25-9E	W	60	0	Bartl	2,400	50	1	9	0	0	1946	0	8	0	0	5-spot	0	0	Prod + Dougl	1,360	U	S Gas	40	0	3,145	937,584	34,642	
Sallyards	Tidewater Oil Company	Sallyards Unit	45706	3565	R. Bryden #1, #2, #3, F.H. Hull "A&B", "C&D", A.L. Stevenson	35,36-25-8E;1,2,3,10, 11-26-8E	P	520	0	Bartl	2,425	40	43	12	0	0	1953	42	9	0	0	Irreg.	650	88	Arbuc	3,000	T	Grav	40	1,341,363	86,245	18,833,830	2,744,717	
Seeley-Wick	Cities Service Oil Co.	Madison Unit	36652*	2008*	Garth, Madison Units "A", "B", "C"	11,12,14,15,22,23-22-11E	W	968	0	Bartl	1,850	38	38	0	0	3	1948	34	0	0	8	5-spot	800	215	Prod		T	S Gas	40	2,665,727	95,599	46,497,741	3,734,305	*46747, 3908; 171; 184
Seeley-Wick	Eureka Drilling Company	Humes	67081	8952	Humes	29,30-22-11E	D	240	0	Bartl	2,048	15	3	0	0	0	1961	1	0	0	0	Irreg.	0	20	Prod		U	S Gas	40	7,300	0	13,675	0	
Seeley-Wick	Glenn Supply Company	Lyke Unit	54735	5552	Lyke, Ratcliff, Reser	5,6,7-24-12E	W	117	0	Bartl	1,600	20	10	0	0	0	1953	5	0	0	0	Irreg.	350	150	Dougl	600	T	S Gas	41	463,466	12,550	3,195,362	214,446	
Seeley-Wick	Ward A. McGinnis	BEC Unit	---	5095	Beal, Carson, Edwards, O'Neal, Schaefer	27,29,32,33-23-11E	P	600	1,200	Bartl	1,900	17	15	---	0	0	1957	6	3	0	0	Line	700	120	Prod + Dougl	900	T	Grav	*	292,000	38,731	1,788,500	190,617	*4 leases 40, 1 lease 34
Seeley-Wick	Phillips Petroleum Co.	Beal Unit	39871	---		21,22,27,28-23-11E	W	548	0	Bartl	1,900	55	54	0	0	2	1950	53	3	0	0	5-spot	1,035	143	Prod + Arbuc	3,300	T	S Gas	42	2,781,555	96,861	54,231,378	5,401,937	
Seeley-Wick	Phillips Petroleum Co.	McGilvray	39842	---		8,8,16,17-23-11E	W	400	0	Bartl	1,950	37	33	0	0	0	1948	19	2	0	0	5-spot	960	255	Prod		T	S Gas	42	1,243,217	93,130	21,321,016	2,543,278	
Seeley-Wick	Robin Supply Corporation	Clopton	29389	1362	Clopton	8-23-11E	W	227	0	Bartl	1,900	33	7	2	1	6	1946	7	2	0	6	5-spot	450	222	Prod		M	S Gas	41	567,210	15,218	17,313,452	1,044,282	
Seeley-Wick	Robin Supply Corporation	Hamilton Flood Project	63779	8013*	Nesbit, Nesbit "B", Osborn, Patterson "A", "C", Ratcliff, Schultz, Shook, Smith	36-23-11E;31-23-12E; 1-24-11E;6-24-12E	W	40	300	Bartl	1,710	20	4	16	1	0	1960	1	2	1	0	Irreg.	600	200	Dougl	600	T	S Gas	41	73,000	0	247,000	0	*1483
Seeley-Wick	Geo. E. Sauder-L. C. Long	Huber-Thornton	59095	6852	Huber-Thornton	7-22-12E	*	80	40	Bartl	1,720	20	6	0	0	0	1959	2	0	0	0	Irreg.	500	100	Prod + Dougl	700	T	Grav	39	72,000	12,700	220,000	103,900	*Combination Active Waterflood and Pressure Maintenance
Seeley-Wick	The Shallow Water Refining Company	Sheetz	59097	6854	Sheetz	23-22-11E	P	480	0	Bartl	1,850	20	3	1	0	0	1959	2	0	0	0	Irreg.	200	208	Prod		U	*	40	151,000	5,487	x	x	*Limited water
Seeley-Wick	George Sheehan Interests	Hamilton	50382	4711	Ellis Unit	26,27-23-11E	W	640	0	Bartl	1,950	20	38	0	0	0	1955	31	0	0	0	5-spot	525	115	Prod		T	S Gas	42	1,350,000	177,983	x	x	
Seeley-Wick	Skelly Oil Company	H. B. Wick Waterflood	44402	3284	H.B. Wick	22-22-11E	---	80	0	Bartl	1,959	20	---	---	---	*	1943	---	---	---	*	Irreg.	---	---	Dougl	881	U	S Gas	40	---	---	---	---	*All wells plugged and abandoned September, 1963
Seeley-Wick	Dewey F. Weaver	Greenwood Lease	---	---		19-22-11E	W	80	40	Bartl	2,040	18	5	0	0	0	----	3	2	0	1	Line	700	150	Prod + Dougl	1,100	T	Grav	42	108,000	11,000	x	x	
Seeley-Wick	White & Ellis Producing, Incorporated	Kipfer Unit	---	---	Kipfer	1,12-22-11E	W	120	60	Bartl	1,800	25	12	0	0	0	1963	1	0	0	0	Irreg.	145	100	Dougl	705	T	S Gas	40	6,000	0	6,000	0	
Scott	Phillips Petroleum Co.	Scott Unit	28739	---		24,25-23-8E;19-23-9E	W	378	0	Bartl	2,600	40	20	15	0	0	1945	9	12	0	0	5-spot	285	300	Prod + Dougl	1,000	U	S Gas	42	960,024	30,475	29,585,364	1,929,976	
Teeter	Cities Service Oil Co.	Teter Unit	34159*	1748*		10,11,14,15,16,17-23-9E	W	1,149	0	Bartl	2,470	46	63	0	0	2	1947	54	0	3	5	5-spot	80	240	Arbuc	3,000	T	S Gas	40	4,722,246	242,835	43,052,324	2,773,039	*173,167; 43799, 3172
Teeter	P. B. Meyer	Noller Flood Project Teter	72067	10430	Noller	9,10-23-9E	W	80	160	Bartl	2,400	30	6	2	2	0	1963	2	0	0	0	5-spot	900	150	Prod		T	Wat	41	109,000	37,260	154,000	51,000	
Teeter	The Shallow Water Refining Company	Green "A" Unit	71234	10170	Green "A", Noller	2,11-23-9E	P	330	0	Bartl	2,333	37	7	0	0	0	1963	1	0	0	0	Irreg.	425	53	Prod + Dougl	930	U	*	41	22,550	x	22,550	x	*Limited water
Teeter	The Shallow Water Refining Company	Morris	41597	2737	Morris	20,21-23-9E	W	960	---	Bartl	2,465	110	6	3	1	0	1951	3	1	0	0	Irreg.	939	49	Prod		T	*	41	35,465	x	35,465	x	*Limited water
Teeter	Sinclair Oil & Gas Co.	Teter-Spencer Water Flood	---	3293	J.W. Teter	21-23-9E	W	90	70	Bartl	2,550	60	4	6	0	0	1951	4	1	0	0	5-spot	800	150	Dougl	750	U	S Gas	40	217,917	11,957	2,693,013	200,349	
Thrall-Aagard	R. P. Baker Drilling Co.	Wiggins	71781	10325	Osmundson	23-24-9E	*	46	35	Bartl	2,178	10	1	0	0	0	1963	1	0	0	0	Irreg.	0	50			U	Wat	38	9,200	807	9,200	807	*Redrilled
Thrall-Aagard	Cities Service Oil Co.	Marshall	26455	914	Marshall	1-24-9E	W	86	0	Bartl	2,300	37	7	0	0	0	1944	6	0	0	3	Irreg.	730	181	Prod		T	S Gas	40	397,269	22,314	6,311,090	163,547	
Thrall-Aagard	Jackman & Jackman	Eide Lease	---	3800	Eide, Hill	27-24-9E	P	160	0	Bartl	2,200	14	13	3	1	0	----	4	0	0	0	5-spot	150	100	Prod + Dougl	1,200	T	Grav	38	148,000	7,375	x	x	
Thrall-Aagard	Ward A. McGinnis	Burke Waterflood Unit	---	7563	Burke A & B, Mason A & B, Oldham, Aagard Olson, G.O. Olson, Tony Olson, Thomas	12,13,14-24-9E;6,7,8-24-10E	W	700	700	Burke	2,150	18	48	---	0	0	1960	8	2	2	0	Perip.	800	200	Prod + Wells	2,150	T	Grav	38	762,170	81,776	1,126,609	226,670	
Thrall-Aagard	Marathon Oil Company	Martindell-Teter Waterflood	35774*	1908*	J.W. Martindell, M. Teter	30-23-10E;6-24-10E	W	452	0	Bartl	2,300	50	21	25	0	3	1948	6	40	0	2	5-spot	600	1,078	Prod + Arbuc	2,890	T	S Gas	40	393,363	11,562	23,032,364	2,513,706	*61390, 7399; 70372, 9915
Thrall-Aagard	Phillips Petroleum Co.	Lewis and Canon Unit	27275	---		11,12-24-9E	W	170	0	Bartl	2,300	50	12	6	0	0	1945	5	7	0	0	5-spot	750	424	Prod + Dougl	1,000	U	S Gas	41	773,302	26,715	11,299,770	1,025,363	
Thrall-Aagard	Phillips Petroleum Co.	Cartwright Unit	41635	---		36-23-9E;1-24-9E; 6-24-10E	W	325	0	Bartl	2,200	35	22	9	0	0	1952	22	1	0	0	5-spot	700	520	Prod + Arbuc	3,300	T	S Gas	41	1,518,953	55,693	19,679,251	1,459,533	
Thrall-Aagard	Phillips Petroleum Co.		---	---	Greenwood	12-24-9E	W	40	0	Bartl	2,300	---	2	1	0	0	1962	1	0	0	0	5-spot	450	265	Prod + Dougl	1,000	U	S Gas	40	96,844	27,854	174,959	30,869	
Thrall-Aagard	R. R. Riss, Sr.	Bratton-Mansfield	---	---	Bratton, Mansfield	13-24-9E	P	320	160	Bartl	2,260	20	33	---	0	0	1960	8	0	0	0	Irreg.	250	1,200	Dougl	1,200	U	Grav	39	500,000	145,173	1,500,000	350,920	
Thrall-Aagard	The Shallow Water Refining Company	Moore-Holverson Unit	72902	10734	Holverson, Moore	23,26-24-9E	P	314	0	Bartl	2,100	75	8	5	0	0	1963	3	0	1	0	Irreg.	248	10	Dougl	1,000	U	*	37	4,191	x	4,191	x	*Limited water
Thrall-Aagard	Sinclair Oil & Gas Co.	Thrall-McKee Consolidated-Waterflood project	---	2226	Bessie L. McKee, George Miller, Ernestine Thrall, F.G. Thrall, Louisa Thrall	28,29,32,33-23-10E	W	780	0	Bartl	2,300	31	43	12	0	0	1949	24	36	*	0	5-spot	650	132	Dougl	750	U	S Gas	40	1,156,889	77,237	52,667,909	3,743,434	*2 conversions
Virgil	Aikman & French	Mid-Continent	---	---	Meyers B	10-24-12E	W	80	80	Missi	1,750	9	3	0	0	0	----	---	---	---	---	Line	60	x	Prod		T	Wat	39	x	2,423	x	x	
Virgil	Aikman & French	Sunray-Mid-Continent	---	---	Hout	11-24-12E	W	80	20	Missi	1,800	9	3	0	0	0	----	---	---	---	---	Line	---	---			T	Wat	--	x	4,584	x	x	
Virgil	George A. Barnard		41039	2664	Johnson	16-24-12E	W	30	110	Bartl	1,600	15	1	2	0	0	1951	1	0	0	0	Irreg.	600	25	Dougl	700	U	Grav	39	9,000	1,440	156,600	39,500	
Virgil	Brunson-Spines	Johnson	70380	9922	Johnson	23-24-12E	W	220	180	Miss Dol	1,800	15	10	2	0	2	1962	7	5	2	1	*	330	225	Arbuc	2,100	T	S Gas	38	651,090	37,935	747,090	42,584	*Irreg. + 5-spot
Virgil	Sunray DX Oil Company	West Virgil Unit Waterflood	61998	7558	Bonnett, Geist, Sullivan, Wayham	13,14-24-12E	W	565	235	Missi	1,730	70	43	1	0	0	1958	18	0	0	0	5-spot	200	200	Arbuc	2,200	T	S Gas	40	1,266,344	69,620	4,029,515	380,000	
Virgil North	Barbara Oil Company		27369	1057	T.E. Schneider	10-23-13E	D	320	0	Bartl	1,600	25	3	0	0	0	1956	1	0	0	0	*	x	250	Prod		U	Wat	38	91,250	x	x	x	*Irreg. + 5-spot
Virgil North	Kelly Oil Company	Kelly Oil Co.	4675	3915	Dehlinger, Lovett, Pinon, Shambaugh	22-23-13E	W	240	0	Missi	1,800	15	8	0	0	0	----	1	0	0	0	Line	150	x	Prod		T	Wat	38	x	6,879	x	x	
Virgil North	Kelly Oil Company	Sunray	55863	5838	Shadel	15-23-13E	W	160	0	Missi	1,800	18	7	0	0	0	----	1	0	0	0	Line	150	x	Prod		T	Wat	39	x	3,706	x	x	
Virgil North	Kelly Oil Company		---	221	Q.M. Shadel	15-23-13E	W	120	0	Missi	1,800	8	9	0	0	0	----	---	---	---	---	Line	60	200	Prod		T	Wat	35	x	3,706	x	x	
Virgil North	Kelly Oil Company		---	3259	Lizzie Young	10-23-13E	W	80	80	Missi	1,800	6	5	0	0	0	----	---	---	---	---	Line	60	100	Prod		T	Wat	35	x	2,538	x	x	
Virgil North	Kelly Oil Company		---	3915	Lovett, Shambaugh	22,27-23-13E	W	140	0	Missi	1,770	7	10	0	0	0	----	---	---	---	---	Line	75	500	Prod		T	Wat	34	x	5,405	x	x	
Virgil North	Sunray DX Oil Company	Griblin Waterflood	64121	8090	Griblin "B"	21-23-13E	W	10	150	Missi	1,750	30	4	0	0	0	1961	1	0	0	0	5-spot	320	225	Prod		U	S Gas	39	79,347	5,094	197,100	12,700	
Virgil North	Sunray DX Oil Company	Jones Waterflood	56655	6135	Dehlinger "A", Jones "A"	21,28-23-13E	P	40	360	Missi	1,670	55	8	4	0	0	1958	2	6	0	0	Irreg.	0	50	Prod		U	S Gas	40	32,500	7,894	538,236	43,400	
Virgil North	Sunray DX Oil Company	Olinger "A" Waterflood	56606	6126	Olinger "A"	15-23-13E	D	10	70	Missi	1,720	30	4	0	0	0	----	1	0	0	0	Irreg.	*	40	Prod		U	S Gas	39	14,000	3,620	71,887	27,200	*Gravity
Virgil North	Sunray DX Oil Company	Shadel Waterflood	55863	5838	Shadel	15-23-13E	D	160	0	Bartl	1,540	30	2	6	0	0	1938	3	2	0	0	Irreg.	*	550	Prod		U	S Gas	39	600,000	4,950	15,240,293	126,542	*Gravity
Virgil North	Sunray DX Oil Company	Shamba

Table 1
Kansas Geological Survey

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS: Comm. No.	ORDER DOCKET NUMBERS: Conserv. No.	NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED: Current	NUMBER OF ACRES FLOODED: Add.	PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS: Active	NO. OF OIL WELLS: Inact.	NO. OF OIL WELLS: Drld.	NO. OF OIL WELLS: Abd.	DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS: Active	NO. OF WATER INJECT. WELLS: Inact.	NO. OF WATER INJECT. WELLS: Drld.	NO. OF WATER INJECT. WELLS: Abd.	WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls): WATER INJECTED	1963 (Bbls): OIL PRODUCED	TO END OF 1963 (CUMULATIVE, Bbls): WATER INJECTED	TO END OF 1963 (CUMULATIVE, Bbls): OIL PRODUCED	ADDITIONAL INFORMATION
KINGMAN COUNTY																																	
Casley	Petroleum Mgmt., Inc.	Casley	---	---		11-28-5W	W	80	0	Missi	380	275	2	0	0	0	1957	1	0	0	0	Line	250	132	Prod		U	S Gas	36	56,200	1,725	361,200	2,250	
Cunningham	Skelly Oil Company	Cunningham Field (non-unitized)	62751*	7701*	A.J. Conley**, Wen Leisman**, Miles "A", "B", "C"	19,20,29,30-27-10W	W	615	0	Lansing	3,400	8	13	4	0	4	1961	5	2	0	2	Irreg.	25	170	Sh Sd	80	M	S Gas	34	311,102	40,390	1,459,480	1,172,985	*62752, 7702; 65901, 8645; 65902, 8646; 65907, 8651 **Von Leisman lease was shut down 9/5/63, A.J. Conley lease was shut down 11/30/63
Spivey-Grabs-Basil	Sunray DX Oil Company	Higgins	---	---	Higgins	9-30-8W	D	80	80	Miss Chat	4,185	45	1	0	0	0	1957	1	0	0	0	Irreg.	*	50	Prod		U	S Gas	36	19,000	696	156,879	4,957	*Gravity
Total Kingman County								775	80				16	4	0	4		7	2	0	2									386,302	42,811	1,977,559	1,180,192	
KINGMAN-PRATT																																	
Cunningham	Skelly Oil Company	Cunningham "B" Unit	56535	6106	Interurban R. Co., C. H. Lakin, East Maxedon, So. Maxedon, West Maxedon, Geo. Miller, J. Miller, J.M. Ratcliff, North Ratcliff	19,30,31-27-10W;24,25, 36-27-11W	W	1,100	0	Lansing	3,400	16	24	13	0	0	1958	22	2	0	0	Perip.	120	291	Sh Sd	80	M	S Gas	36	2,333,795	60,333	9,976,252	321,375	
KINGMAN-SEDGWICK																																	
Bartholomew	Cities Service Oil Co.	Bartholomew Unit	53438	5288	Bartholomew Unit	29,30,31-27-4W;36-27-5W;6-28-4W;1-28-5W	W	445	530	Missi	3,700	11	30	14	0	0	1957	19	0	0	0	Perip.	800	382	Arbuc	4,227	U	S Gas	35	2,648,829	75,522	8,738,074	189,067	
LABETTE COUNTY																																	
Coffeyville-Cherryvale	Continental Oil Company	Country Club	---	10131	John Ord	26,35-32-17E	W	108	0	Bartl	714	20	16	20	0	0	1955	5	12	0	0	Irreg.	480	495	Prod		U	Grav	34	179,892	18,251	1,870,561	201,739	
Coffeyville-Cherryvale	Dodson Drilling Company	Perry	---	---	Perry	25-32-17E	W	20	160	Bartl	650	15	5	---	2	---	1962	2	---	2	---	5-spot	250	65			U	S Gas	23	19,310	*	23,755	---	*Increase production 10 bbls per day
Coffeyville-Cherryvale	Oakleaf Drilling Company	Kincaid-Utter	---	---	Utter	23-32-17E	D	40	80	Bartl	700	20	2	0	0	0	1961	1	0	0	0	Irreg.	175	20	Prod		M	S Gas	34	7,300	1,825	x	x	
Mound Valley	Ralph Helms & Larry Moore Ranch, Inc.	B & K Flood	52797	5125	Beard, Ellis, Kudrick, McDole	22,27-32-18E	W	40	100	Bartl	650	15	16	2	3	2	1956	11	0	3	0	Irreg.	450	50	Arbuc	1,220	T	S Gas	32	138,887	6,729	925,467	84,769	
Mound Valley	Vat Oil Company	Merrick Lease	---	---	Merrick	33-32-18E	D	80	x	Bartl	580	20	12	x	x	x	1958	1	0	0	0	Irreg.	0	10	Prod		U	Grav	32	3,650	x	x	x	
Price	Ralph Helms & Larry Moore Ranch, Inc.	K & H Flood	58742	6757	Kelley, Hugo	4-33-18E	W	40	---	Squirrel	500	15	10	6	0	0	1959	6	0	0	0	5-spot	600	70	Pond		M	S Gas	32	58,785	5,627	471,718	40,051	
Price	Schermerhorn Oil Corp.	Byers Unit	71809	---	Carson, Dickerson, Dodd, Dowell, Helwig, Hoyt, O'Connell, State	12-33-17E;7,8-33-18E	W	80	80	Bartl	600	20	40	84	0	0	----	8	2	13	---	Irreg.	400	41	Prod + Arbuc	1,400	U	S Gas	30	458,244	3,110	458,244	3,110	
Total Labette County								408	420				101	112	5	2		34	14	18	0									866,068	35,542	3,749,745	329,669	
LINN COUNTY																																	
Centerville	Woods-Clark-Manigan		---	---	Dunavan, Houghton	34-21-23E	P	50	100	Squirrel	500	25	17	0	0	0	1962	11	1	0	0	Irreg.	340	250	Prod + Arbuc	725	T	S Gas	27	91,000	5,196	155,000	7,792	
Goodrich-Parker	Buddrus-Wood	Linn Flood	69521	9576	Nolen-Underhill	23-19-22E	W	45	25	Bartl	670	12	7	0	0	0	1963	7	0	1	0	Irreg.	450	22	Prod + Hertha	280	T	S Gas	28	45,000	1,800	45,000	1,800	
Goodrich-Parker	Tex-Kan Oils, Ltd.	Goodrich	---	3165	Bearly, Brownrigg, Byerly, Byerly-Bundy, Cox, Green, Wooten	20-20-22E	P	210	0	Squirrel	580	32	99	0	0	0	1944	92	0	0	0	5-spot	680	17	Prod + Arbuc	---	M	S Gas	29	380,150	16,943	8,109,000	521,000	
Total Linn County								305	125				123	0	0	0		110	1	1	0									516,150	23,939	8,309,000	530,592	
LYON COUNTY																																	
Atyeo-Pixlee	Stewart Oil Company	Lowe-Jones Unit	48639	4314	Lowe "B"	19-21-10E	P	160	0	Bartl	2,250	12	2	0	0	0	1955	1	0	0	0	Line	1,100	185	KC Group	1,250	U	S Gas	28	57,264	1,805	237,435	16,245	
Fankhouser	E. E. Sauder	Eppink Lease	50366	4706	Eppink	30-21-10E	*	40	0	Bartl	1,900	10	3	1	0	0	1956	1	1	0	0	Irreg.	100	225	Prod + Dougl	800	U	Grav	40	60,000	2,000	234,000	12,000	*Combination
Rock Creek	C. E. Murphy	Murphy	---	---	Murphy	29,32-21E-11E	P	160	320	Bartl	1,940	20	7	2	0	0	1961	2	0	0	0	Irreg.	400	175	Prod		U	Grav	39	75,000	10,000	175,000	x	
Total Lyon County								360	320				12	3	0	0		4	1	0	0									192,264	13,805	646,435	28,245	
McPHERSON COUNTY																																	
Georob	Colorado Oil & Gas Corp.	Robinson	61353	7365	Robinson	1-18-2W	D	40	0	Missi	2,790	7	3	0	0	0	1959	1*	---	0	0	Irreg.	0	14	Prod		U	Wat	35	2,920	590	69,287	6,065	*Temporarily abandoned, 8/1/63
Goessel	Union Texas Petroleum Corporation	Goessell Field	64458	8231	Goossen & Klassen Unit	12-21-1W	D	200	0	Hunton Dol	3,389	6	4	0	0	0	1961	2	0	0	0	Irreg.	0	42	Missi	3,105	U	S Gas	40	30,587	4,971	252,587	10,956	
Graber	Cities Service Oil Co.	Graber	42892	3017	C. Jones, D.B. Jones	31,32-21-1W	W	60	0	Hunton	3,285	25	6	0	0	0	1952	1	0	0	0	Irreg.	35	48	Sh Sd	100	F	S Gas	40	17,449	17,633	314,986	263,424	
Graber	Continental Oil Company	Graber-Hunton WF	39621	2434	J.M. Boechner, J.C. Goerling, A.K. Graber, C.C. Graber, A. Hetzke, F.A. Hetzke, F.A. Hetzke "A"*	20,29,30,31,32-21-1W	W	967	0	Hunton	3,280	40	27	70	0	7	1947	24	17	0	0	Irreg.	0	410	Prod + Simp + Sh Grav		U	S Gas	41	2,593,230	125,980	34,144,049	4,648,774	*J.P. Huxman, C. Jones "A", D.B. Jones "A", A.E. Kindblade
Graber	Continental Oil Company	Graber Water-flood*	35778	1911	Graber WFD	29-21-1W	x	0	0	x	x	x	0	0	0	0	x	x	x	x	x	x	x	x	x	x	---	x	--	0	0	0	0	*Refer to Docket No. 39621C, C-2434
Jenday	Tom Brown Construction, Inc.	Entrikin-A. J. Koehn	---	10014	Entrikin-A.J. Koehn	8-19-1W	D	160	---	Miss Chat	---	8	2	0	0	0	1962	1	0	0	0	Irreg.	0	65	Prod		U	S Gas	34	18,950	0	18,950	0	
Jenday	Alfred Koehn	Ryno	55374	5715	Russell	6-19-1W	D	80	0	Miss Chat	2,942	8	2	0	0	0	x	---	---	---	---		---	---	Prod		T	Grav	36	3,650	0	x	0	
McPherson	Leonard L. Bruce		---	---	Rolander	30-18-2W	D	40	0	KC Group	2,340	10	1	0	0	0	1958	1	0	0	0	Irreg.	0	10	Prod		U	Wat	34	3,650	0	14,600	0	
McPherson	Lawrence & Bush	Anderson B and Johnson	60189*	7085*	Anderson A & B, Chindberg, Johnson	30,31,32-18-2W	W	320	80	Lans-KC	2,300	10	13	0	0	0	1959	2	0	0	0	Irreg.	275	200	Prod + Missi	3,000	U	S Gas + Grav	35	86,813	17,102	284,166	73,204	*72066, 10429
McPherson	Mead Production Company	McPherson (Bentson)	---	7951	O.T. Bentson	32-18-2W	W	80	---	KC Group	2,350	12	3	0	0	0	1960	1	---	---	---	Irreg.	25	170	Prod + Missi	3,000	U	S Gas	36	61,055	6,199	184,592	33,240	
Ritz-Canton	Colorado Oil & Gas Corp.	Lacquement	66537	8813	Lacquement	20-19-1W	P	80	0	Missi	2,942	208	2	0	0	0	1961	1	0	0	0	Irreg.	*	228	Prod		U	Wat	33	83,203	908	187,444	1,708	*Vacuum
Ritz-Canton	CRA, Inc.	Eaton-Knudson	---	7961*	Eaton, Knudson	23,26-19-2W	P	120	120	Missi	2,930	20	5	1	0	0	1960	2	0	0	0	Irreg.	**	426	Prod		T	S Gas	37	302,606	10,301	1,039,980	29,617	*7971; **vacuum
Ritz-Canton	CRA, Inc.	Unruh	---	6975	Unruh	34-19-2W	P	80	80	Missi	2,948	4	2	0	0	0	1959	1	0	0	0	Irreg.	*	196	Prod		T	S Gas	38	71,310	2,395	335,511	11,078	*Vacuum
Ritz-Canton	John Jay Darrah	Boese Koehn Water Flood	---	4067	Cornelius J. Boese, Edwin B. Koehn	34-19-2W	D	160	7	Missi	2,950	10	2	4	0	4	1959	1	0	0	0	Irreg.	0	60	Prod		U	Wat	36	500,000	0	2,500,000	0	
Ritz-Canton	[illegible]	Jantz (Sellers)	56473	6078	Sellers	31-19-1W	D	320	0	Miss Chat	2,970	34	6	0	0	1	1958	1	0	0	0	*	0	191	Prod		U	Grav	31	70,000	1,815	970,000	546,496	*None
Ritz-Canton	Wiggers and Maclean	Wiggers	44633	3320	Wiggers	36-19-2W	D	80	0	Miss Chat	2,980	52	1	0	0	0	1953	1	0	0	0	*	0	98	Prod		U	Grav	35	38,000	644	360,000	152,656	*None
Ritz-Canton	Hamer and Maclean		---	---		24-19-2W	P	560	0	Missi	2,950	25	---	0	0	0	1954	1	0	0	0	Irreg.	0	---			U	Wat	35	62,050	0	333,800	0	
Ritz-Canton	Hess & Bennett	Miller	---	---		23,24-18-2W	P	480	0	Missi	2,912	12	20	0	0	0	1952	5	0	0	0	Irreg.	0	800	Prod		T	Wat	36	1,500,000	45,955	x	x	*4565; 7253
Ritz-Canton	Frank Jones Oil Operations	Ritz-Canton Field	---	3286*	C.R. Johnson, B.d. Russell, Opal Russell																												
Ritz-Canton	Simon Lebow Corporation	Becker	45534	3500	J.J. & P.J. Becker	36-19-2W	D	120	0	Missi	2,935	33	2	0	0	0	1953	2	0	0	0	Irreg.	0	100	Prod		U	*	38	35,000	x	350,000	x	*Probably a combination
Ritz-Canton	W. C. McBride, Inc.	Giffin Lease	---	4773	Giffin	14-19-2W	P	80	0	Miss Chat	2,892	77	1	3*	0	0	1955	1	0	0	0	Irreg.	0	617	Prod		T	Wat	37	222,120	0	12,603,120	0	*Temporarily abandoned
Ritz-Canton	W. C. McBride, Inc.	F. A. Lovett Lease	---	2039*	F.A. Lovett	13-19-2W	P	160	0	Miss Chat	2,916	59	2	4**	0	0	1962	1	1	0	1	Irreg.	0	943	Prod		U	Wat	37	339,480	0	340,680	0	*9787; **plugged and abandoned
Ritz-Canton	Nadel and Gussman	Drum Lease	48745	6760	Drum	35-19-2W	W	80	0	Viola	3,358	11	2	0	0	0	1959	1	0	0	0	Irreg.	50	500	Prod		U	S Gas + Wat	34	182,500	2,000	900,000	8,000	
Ritz-Canton	Norris Tickel*	Rishel Unit	46310	---	Rishel-Bishop-Dielman	35-19-2W	D	320	0	Missi	2,912	40**	9	---	0	0	1954	1	0	0	0	Irreg.	0	54	Prod		U	Grav	36	0	***	0	***	*Orig. Bradley & Tickel, Inc.; **to 72 ft; ***no increase
Ritz-Canton	Norris Tickel	Thomas Unit	64358	---	Thomas-Lewis-Williams	26-19-2W	D	240	---	Missi	2,922	12*	7	0	0	0	1960	1	0	0	0	**	0	88	Prod		U	Grav	36	0	***	0	***	*To 40 ft; **standard location 330'-330'; ***no increase
Roxbury South	Natural Gas & Oil Co.	Bishop Unit	57792	---	Bishop, Lilly	30-17-1W	D	120	0	Missi	2,685	5	2	0	0	0	1958	1	0	0	0	Irreg.	0	690	Prod		U	Wat	33	252,446	3,199	1,314,892	22,464	
Total McPherson County								4,947	280				124	82	0	12		54	18	0	1									6,475,219	239,692	56,420,644	5,807,682	
McPHERSON-RICE																																	
Welch-Bornholdt	Continental Oil Company	Bornholdt Waterflood	60988	7283	G.W. Carlson, J. Mattson	31-20-5W;36-20-6W	x	x	x	Miss Chat	3,300	75	x	x	0	0	1959	2	0	0	0	x	x	x	Prod	x	U	x	x	x	0	x	0	
MARION COUNTY																																	
Lost Springs	J. S. Cling	J. Riffel "A" #3	48735	4335	Ed Riffel, J. Riffel A&B	10,15-17-4E	D	320	160	Chat	2,336	15	5	0	0	0	1958	1	0	0	0	Irreg.	*	---	Prod		U	Wat	32	76,650	2,612	443,292	29,641	*Gravity
Lost Springs	Four L Oil Company	Secondary Recovery	58067	6543	Meyer-Jones	26,27-17-4E	W	280	40	Missi	2,400	25	6	0	1	0	1958	4	1	0	0	Irreg.	600	100	Prod		M	*	36	362,866	9,632	899,289	70,125	*Powers & indiv. pump. units
Lost Springs	Hollar Oil Company	Schweitzer	71867	10372	Schweitzer, Kreutziger, Schlotthauer	22,27,28-19-3E	D	280	520	Missi	2,400	20	6	0	0	0	1963	1	0	0	0	Irreg.	---	600	Prod		U	S Gas	37	90,000	1,500	90,000	1,500	
Lost Springs	Francis R. Loriaux Oil Producer	Bevan Waterflood	6309	7768	Bevan	21,28-17-4E	W	240	0	Missi	2,400	25	8	8	0	0	1961	3	0	0	0	Irreg.	x	175	Prod		M	*	34	192,370	2,527	595,282	6,732	*Pumping units
Lost Springs	Melmar	Novak	---	7890	Novak	28-17-4E	D	10	0	Miss Chat	2,383	20	1	0	0	0	1959	1	0	0	0	Irreg.	100	75	Prod		U	S Gas	36	3,000	1,800	17,000	5,400	
Total Marion County								1,130	720				26	8	1	0		10	1	0	0									724,886	18,071	2,044,863	113,398	
MEADE COUNTY																																	
Novinger	Cities Service Oil Co.	Novinger Unit	51688	4924	Novinger Unit	22,23,36,27,34,35-33-30W;2,3-34-30W	W	1,839	0	Marmaton	5,297	15	22	3	0	0	1956	10	0	0	0	Line	850	324	Prod + 400 Ft Sd	400	T	S Gas	45	1,183,414	297,627	9,036,611	1,631,539	
MIAMI COUNTY																																	
Louisburg	R & S Group (E. Buddrus)	Richman-Shulties Flood	55531	5762	Briggs, Dunn, Richmond, Shulties	28,33,34-16-25E	W	75	0	Peru	300	14	31	7	0	0	1958	23	0	0	0	Line	300	34	Prod + Arbuc	1,300	M	S Gas + Grav	34	263,000	51,128	1,584,000	345,698	
Paola-Rantoul	Big Lake Development, Inc.	Big Lake	---	---		29-16-24E	W	460	0	Peru	400	20	175	25	0	0	1953	175	190	0	0	5-spot	400	x	Arbuc	1,300	T	* + Gas Exp	29	540,000	16,000	x	x	*Air repressuring
Paola-Rantoul	Black Gold Producers	C.W. Davis Lease	72856	10704	C.W. Davis	29-17-23E	P*	20	100	Peru	350	15	0	8	0	0	1963	0	1	0	0	7-spot	200	---		---	---	Grav	32	0	0	0	0	*Testing only
Paola-Rantoul	W. M. Dary		64394	8191	W.M. Dary	16-17-22E	P	5	0	Peru	465	8	3	0	0	0	1961	5	0	0	0	5-spot	125	20			F	Grav	30	13,650	0	13,650	0	
Paola-Rantoul	W. M. Dary		64394	8191	Annie M. Day	21-17-22E	P	5	0	Peru	420	6	2	0	0	0	1961	5	0	0	0	5-spot	125	15			F	Grav	30	13,650	0	13,650	0	
Paola-Rantoul	W. M. Dary		64394	8191	Fred Obermeier	16-17-22E	P	10	0	Peru	480	12	7	0	2	0	1961	12	0	0	0	5-spot	125	20			F	Grav	30	14,600	0	14,600	0	
Paola-Rantoul	Hart & Buster*		---	---	F.W. Black, D.R. Travis	10-17-22E	P	---	---	Squirrel	600	30	42	0	0	0	1955	42	42	0	0	5-spot	500	30	Prod + Surface		---	Grav	29	---	9,198	---	389,501	*Property sold 6/30/63 to Southern Enterprises
Paola-Rantoul	Meridian Petroleum Co.	Miller Flood	---	9128	Emil J. Miller, Chas. V. Whiteford	29,30-18-23E	W	70	60	Peru	345	17	21	3	2	0	1961	20	0	0	0	5-spot	260	23	Surface		F	S Gas	30	168,762	17,208	308,574	32,148	
Paola-Rantoul	Elmer Sieg	Henning Lease	---	---	Henning	23-16-21E	P	60	100	Squirrel	660	20	17	0	1	1	1959	9	0	0	0	Irreg.	350	20	Prod + Hertha	400	U	Grav	32	54,000	4,000	300,000	4,000	
Paola-Rantoul	Tex-Kan Oils, Ltd.	Producers Group	---	3132	Barels, Chapman, Day, Ester, Fenoughty, Roberts, Sheehy, Staadt, Ware, Williams	22-17-22E	P	627	0	Peru	350	20	190	0	0	0	1945	159	30	0	0	5-spot	350	24	Prod + Arbuc	x	M	S Gas	30	1,298,279	23,104	30,953,000	807,000	
Paola-Rantoul	Tex-Kan Oils, Ltd.	Schmitt	---	4829	Schmitt	11-17-22E	P	30	0	Peru	350	20	3	0	0	0	x	3	0	0	0	5-spot	350	24	Prod + Arbuc	x	M	S Gas	30	28,110	4,877	x	x	
Total Miami County								1,362	260				491	43	5	1		453	263	0	0									2,394,051	125,515	33,187,474	1,578,347	
MONTGOMERY COUNTY																																	
Brewster	Lloyd S. Roberts	Bullock-Demott	56022	---	Bullock, Demott	8-32-16E	W	30	200	Bartl	845	45	13	0	0	0	1958	2	0	0	0	Perip.	300	100	Sh Grav	27	M	S Gas	31	76,650	500	209,430	500	
Caney	Milleneva Oil Company	Miller Unit	---	9642	Hempel, Miller	34-34-14E	P	40	0	Bartl	1,324	14	4	0	0	0	1963	4	0	4	0	5-spot	780	56	Prod + Sh Sd	218	M	Grav	36	46,866	4,919	46,866	0	
Coffeyville-Cherryvale	Layton Oil Company	Cherry Creek Flood	---	5320	Augustine, McGuire, Stacy, Steinberger, Summerson, Webb	33-31-17E;4-32-17E	W	190	0	Bartl	700	15	26	---	0	1	1960	21	---	0	0	5-spot	550	120	Arbuc	1,380	T	S Gas	32	52,135	19,630	1,248,186	86,366	
Coffeyville-Cherryvale	Layton Oil Company		46395	3827		10-32-17E	W	90	0	Bartl	720	15	9	---	---	---	1953	8	7	---	---	5-spot	600	65	Arbuc	1,390	U		32	166,075	9,341	4,651,381	312,034	
Coffeyville-Cherryvale	Radco Oil Company	Alexander Lease	70563	9973	Alexander, Sassman	7-32-17E	W	30	200	Bartl	730	20	8	0	3	0	1963	1	---	---	---	5-spot	350	29	City		F	Grav	31	9,470	1,095	9,470	1,095	
Coffeyville-Cherryvale	Eugene M. Strauss	Brougher-Friley (Empire Oil) Unit	---	---	Brougher, Friley	5,6,7,8,9,10-32-17E	W	25	---	Bartl	700	6	3	3	0	2	x	1	1	0	0	Irreg.	250	80	Prod + Fresh	500	F	S Gas	28	25,000	1,100	x	x	
Jefferson-Sycamore	Ross Schoonover	Sycamore Project	---	---	Hight, Overfield, Wildgrube	30-31-16E	W	67	40	Wayside	500	20	30	0	2	10	1964	0	0	16	0	5-spot	0	0	Verdigris River		M	S Gas	33	0	0	0	0	
Jefferson-Sycamore	Thomas Oil Company	J. F. Dobson	72039	10413	J.F. Dobson	20-34-15E	W	25	10	Wayside	478	12	4	0	0	0	1962	3	0	0	0	Irreg.	390	27	Prod + Bartl	1,168	U	Wat	31	29,200	3,100	38,400	4,700	
Wayside-Havana	Consolidated Gas, Oil & Mfg. Company	Bell #1 and 2	---	938*	Bell	10,11-34-14E	W	0**	0	Wayside	637	22	0**	7	0	7	----	---	---	---	---		---	---		---	---	Grav	29	0	251	839,435	71,455	*1588; **Final report - project abandoned
Wayside-Havana	Consolidated Gas, Oil & Mfg. Company	Flanagan #1 and 2	---	689*	Flanagan	10,11-34-14E	W	0**	0	Wayside	637	23	0**	24	0	24	-----	---	---	---	---		---	---		---	---	Grav	30	0	1,480	3,110,525	315,967	*1014; **Final report - project abandoned
Wayside-Havana	Consolidated Gas, Oil & Mfg. Company	Havener	---	3222	Havener	33-33-14E	W	125	0	Wayside	680	22	33	0	0	1	1953	22	0	0	1	5-spot	700	23	Prod		U	Grav	30	187,172	4,869	1,602,638	129,205	
Wayside-Havana	Consolidated Gas, Oil & Mfg. Company	Shinn	---	1588	Shinn	11-34-14E	W	0*	0	Wayside	636	22	0	7	0	7	-----	---	---	---	---		---	---		---	---	Grav	29	0	301	702,311	109,125	*Final report - project abandoned
Wayside-Havana	Kurtis & Horton*	Dalby	67333	---	Dalby	7-34-14E	**	140	400	Wayside	660	30	8	0	0	0	1961	4	0	0	0	5-spot	600	25	Prod		U	Grav	32	36,500	1,825	77,500	1,825	*Formerly Brady Oil Co.; **Salt water disposal
Wayside-Havana	Thomas Oil Company	McConnell #1	72191	10448	McConnell	17,20-34-15E	W	34	80	Wayside	490	24	4	0	4	0	1963	9	0	9	0	5-spot	300	56	Prod + Big Sand	190	T	*	30	106,294	0	106,294	0	*None - started with water injection
Total Montgomery County								796	930				142	41	13	52		75	8	29	1									735,362	48,411	12,600,489	1,079,138	
NEOSHO COUNTY																																	
Erie	Edwards & Purviance	Richard Lease	---	---	Richard	19-28-20E	P	10	20	Bartl	520	14	6	---	0	0	----	---	---	---	---	Irreg.	---	---	Prod		U	Grav	32	*	3,600	*	x	*50 bbls per day (estimate)
Erie	International Oil & Gas Corporation	Erie Project	73585	10946	Bartholomew, Clark, Country Club, Harding, Heady, L. Johnson, O. M. Johnson, Kinne,*	24,25-28-19E;19,20,21

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS		NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED		PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS				DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS				WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls)		TO END OF 1963 (CUMULATIVE, Bbls)		ADDITIONAL INFORMATION
			Comm. No.	Consv. No.				Current	Add.				Active	Inact.	Drld.	Abd.		Active	Inact.	Drld.	Abd.									WATER INJECTED	OIL PRODUCED	WATER INJECTED	OIL PRODUCED	
NEOSHO Cont.																																	
Humboldt-Chanute	Ivanhoe Oil Company		71859	10370	Hudson, Wilson	19-28-19E	W	40	20	Bartl	690	12	4	3	0	0	1959	4	4	0	0	5-spot	400	34	Prod + Missi	x	M	S Gas	30	50,000	876	x	x	
Humboldt-Chanute	Keas Drilling Co., Inc.	Russell Unit	---	11	Kaney	21,22,27,28-27-18E	W	167	x	Bartl	750	20	40	0	0	0	1937	17	17	0	0	5-spot	800	40			M	x	30	249,969	4,278	10,812,496	471,449	
Humboldt-Chanute	Keas Drilling Co., Inc.	Russell Unit	---	264	Ingraham	21,22-27-18E	W	126	x	Bartl	750	20	33	0	0	0	1938	11	25	0	0	5-spot	800	63			M	x	30	254,344	4,055	9,788,623	772,501	
Humboldt-Chanute	Keas Drilling Co., Inc.	Russell Unit	---	514	American, Rosenthal	15-27-18E	W	74	x	Bartl	750	20	24	0	0	0	1941	12	10	0	0	5-spot	800	68			M	x	30	286,817	3,705	8,326,396	491,095	
Humboldt-Chanute	Keas Drilling Co., Inc.	Russell Unit	---	741	Carmichael, Wells	10,11,15-27-18E	W	41	x	Bartl	750	20	17	0	0	0	1944	5	6	0	0	5-spot	800	35			M	x	30	64,637	1,431	1,885,843	189,591	
Humboldt-Chanute	Phillips Brothers	Briener Lease	70005	9753	Gus Briener	27-27-19E	P	30	40	Bartl	698	9	1	3	0	0	1962	1	0	0	0	3-spot	500	5	Prod + Oswego	440	U	Grav	26	1,500	300	1,500	300	
Humboldt-Chanute	Eugene A. Roberts, Jr.	Zastrow Lease	65400	8518	Zastrow-Crawford	33-27-18E	P	5	100	Bartl	800	15	4	10	1	2	x	2	1	2	2	Inv. 5-spot	500	30	Prod		T	S Gas	29	3,500	300	x	x	
Humboldt-Chanute	Weygint Oil Company	Bussman	---	---	Bussman	34-27-18E	P	1	0	Bartl	760	15	0	0	0	0	1961	1	0	0	0	5-spot	325	8	Prod		M	*	28	2,920	3,300	5,840	7,000	*None
Humboldt-Chanute	Wilshire Oil Company of Texas	Chanute Unit	---	---	Ames, Nelson, Neyhard, Rosenthal, Spielman	3,4,9,10-27-18E	W	400	---	Bartl	725	15	60	0	0	6	----	40	x	x	x	Irreg.	600	50	Prod		U	Grav	30	730,000	---	---	14,460	
Humboldt-Chanute and Urbana Moorehead	Wilshire Oil Company of Texas Burk Royalty Company	Earlton Unit Chanute Water-flood	--- 55127*	--- 5647*	Wells C. Berkenmier, Cable-Hurt, Cox, G. Leck, R. Leck, Lewis, Nieses	19,27-28-18E 18,19,30-30-18E	W	80 160	--- 0	Bartl Bartl	800 850	8 30	10 30	--- 4	x 0	x 0	---- 1961	3 12	x 7	x 0	x 0	Irreg. Line	700 600	51 100	Prod Prod + Missi	1,140	U T	Grav S Gas	27 28	--- 365,855	--- 28,464	56,575 935,210	2,880 231,146	*66519, 8800; 66520, 8801; 66521, 8802; 67315, 9021; 68192, 9230; 68304, 9235
St. Paul-Walnut	Burtin & Murphy	Water Flood	66935	8930	Dent	33-28-21E	P	60	20	Bartl	400	10	15	0	0	0	1958	7	0	0	0	Irreg.	300	12	Prod + Missi + Well	800	T	*	32	29,930	**	149,650	4,137	*Rod line unit & 4 single units; **salt water 80-85 bwpd
St. Paul-Walnut	Leon Carroll		*	*	Bernard Butler	30-28-21E	W	80	10	Bartl	445	15	35	0	3	0	1958	20	0	5	0	5-spot	400	15	Prod + Missi	850	M	Grav	32	108,000	10,950	x	10,950	*File No. SR 9-1-1
St. Paul-Walnut	Electrofrac Corporation	St. Paul Project	---	---	St. Paul Property	21-28-21E	*	40	---	Prue	190	10	24	7	0	0	1963	3	0	0	0	Irreg.	40	0**			***		29		0****	700	0****	2,000	*Electrofracing; **15,000 cu ft air; ***electrothermal heating; ****2,000 M cu ft annual, 5,000 M cu ft cumul.
St. Paul-Walnut	Erie Oil Co., Inc.	E. Trent	---	---	Erie Oil Co.	28,29,30-28-21E	W	200	50	Bartl	450	32	60	0	4	0	1960	11	0	4	0	Irreg. + 5-spot	300	30	Prod		T	S Gas	30	120,450	23,441	264,450	55,000	
St. Paul-Walnut	Everett S. Faulkner	Van Leeuwen Lease	49985	4612	Van Leeuwen	33-28-21E	P	10	150	Bartl	400	13	27	2	2	0	1955	15	0	0	0	Perip. + 5-spot	375	12	Prod		M	*	33	65,700	4,349	65,700	4,349	*Pumping jacks
Trent	Petroleum Exploration, Inc. of Texas	Crabtree	53828	---	Cooney, Perry, Strowig, Strowig A	22,23,26,27-28-20E	W	240	80	Bartl	500	13	51	0	0	0	1960	39	0	0	0	5-spot	250	26	Prod + Roubidoux	1,960	M	S Gas	30	363,688	45,147	839,984	90,461	
Trent	V. R. Wyatt	Edwards & Stanley Lease	64216	8145	Edwards, Stanley	22-28-20E	W	40	120	Bartl	475	15	17	0	0	0	1960	3	0	0	0	Irreg.	200	15	Prod + Fresh	90	F	Grav	30	10,000	x	30,000	x	
Urbana	International Oil & Gas Corporation	Urbana Project	73635	10978	Baughman, Greve, Hailman, Hammer, Yockey	26,35,36-28-18E	W	84	103	Bartl	675	17	28	2	0	0	1958	11	6	0	0	Irreg. + 5-spot	667	60	Prod + Well	200	F	S Gas	30	239,776	9,810	986,999	43,562	
Total Neosho County								2,229	763				598	38	12	8		287	102	13	2									3,837,550	212,948	40,801,870	2,778,872	
NESS COUNTY																																	
Aldrich	CRA, Inc.	Aldrich Pool	---	4276*	Bateman, Harkness, Lythe, Sutton, D. Thompson	23,24-18-26W	P	320	0	Missi	4,430	8	13	1	0	1	1956	3	0	0	0	Irreg.	172	352	Prod		T	S Gas	38	384,749	28,130	1,711,421	199,855	*7632; 7952
Aldrich	High Plains Production Company	Edwards	---	---	Edwards	22-18-26W	P	20	60	Missi Dol	4,447	10	1	0	0	0	1963	1	0	0	0	Irreg.	0	35	Prod		U	Wat	37	8,000	0	8,000	0	
Total Ness County								340	60				14	1	0	1		4	0	0	0									392,749	28,130	1,719,421	199,855	
PAWNEE COUNTY																																	
Benson	Cities Service Oil Co.	Benson S.E. Unit	56595	6115		31,32-23-15W	W	112	0	Lans-KC	3,700	35	6	0	0	0	1958	4	0	0	0	Perip.	210	234	Prod + Fresh	67	M	S Gas	41	341,600	33,129	1,222,885	82,387	
Benson	National Cooperative Refinery Association	Garvin	68496	9305	Garvin	30-23-15W	W	30	0	Lansing	3,754	74	3	0	0	0	1962	1	0	0	0	Irreg.	0	363	Prod + Sh Grav	100	M	S Gas	28	132,517	15,257	203,271	16,817	
Benson	Pan American Petroleum Corporation	Benson Waterflood	61991	---	R.J. Benson, A.A. Doerr	19,30-23-15W	W	30	0	Lansing	3,625	28	2	0	0	0	1959	1	0	0	0	Irreg.	0	0	Prod		U	S Gas	26	130,544	12,442	405,208	48,221	
Evers	Iron Drilling Company	Evers Field	---	10371	Malin, Prosser, Shady	35,36-21-16W; 1,2-22-16W	D	40	0	Simp	3,860	20	3	0	0	0	1963	1	1	0	0	*	0	35	Prod + Wells		F	S Gas	39	2,500	0	2,500	0	*Irreg. + 3-spot
Garfield	A. L. Abercrombie, Inc.	Klepper	66290	8740	Klepper	5-23-17W	P	160	0	Misener	4,250	9	4	1	0	1	1961	1	0	0	0	Irreg.	2,000	10	*	24	F	S Gas	39	1,200	0	22,730	0	*Unknown
Garfield	Colorado Oil & Gas Corp.	Hutchinson "H" Lease	61526	7416	Hutchinson "H"	3-23-17W	P	160	0	Congl	4,150	110	1	4	0	0	1959	1	0	0	0	Irreg.	900	133	Prod		U	S Gas	36	48,500	0	292,861	2,000	
Garfield	Colorado Oil & Gas Corp.	MacDonnell	66462	8775	MacDonnell	36-22-17W	P	0	---	Congl	4,140	110	---	---	---	---	1961	---	1	---	---		---	---		---			--	0	0	21,662	0	
Garfield	The Shallow Water Refining Company	Garfield Field	71061	10116	Fergus "A", Fergus "C", Hutchinson "B"-"C", Hutchinson "D", Spence, Wilson	16,17,18-23-17W	P	1,010	0	Miss Congl	4,250	5	26	0	0	0	1963	1	1	0	0			930	8	Prod		U	*	37	59,569	x	59,569	x	*Limited water
Garfield	Earl F. Wakefield	Porteous	---	9726	Porteous	31-22-17W	P	20	0	Misener	4,310	9	1	0	0	0	1962	1	0	0	0	Irreg.	0	8	Prod		U	S Gas	37	2,920	0	4,000	0	
Garfield	Earl F. Wakefield	Welch A	---	9725	Welch	31-22-17W	P	20	0	Misener	4,304	10	1	0	0	0	1962	1	0	0	0	Irreg.	0	4	Prod		U	S Gas	37	1,460	0	2,460	0	
Jay	Santa Fe Pipe & Supply Company	Jay T. Smith Repressuring & Waterflooding	---	8339	Jay T. Smith	3-23-15W	D	160	0	Simp	4,025	10	1	0	0	0	1961	1	0	0	0	Line	0	x	Lans-KC	3,668	U	S Gas	37	x	2,200	x	7,625	
Shiley	Cities Service Oil Co.	Shiley	65319	8460	Jennings "C" & "D", Risse "A"	13,14-20-20W	D	160	0	Penn	4,170	7	7	0	2	1	1961	2	0	0	0	Irreg.	70	109	Prod + Dakota	362	M	S Gas	36	79,780	25,362	223,180	33,521	
Shiley East	National Cooperative Refinery Association	Eckert	68305	9236	Eckert	18-20-19W	W	30	0	Chero	4,224	35	2	0	0	0	1962	1	0	0	0	Irreg.	800	88	Prod		U	Wat	36	32,171	4,744	53,501	4,744	
Total Pawnee County								1,932	0				57	5	2	2		16	3	0	0									832,761	93,134	2,513,827	195,315	
PHILLIPS COUNTY																																	
Dayton	Humble Oil & Refining Company	Dayton Unit	63776	8011	Dayton Unit C-1052	25,26,35,36-2-19W	W	640	480	Toronto + Lans-KC	3,200	25	7	0	0	0	1960	6	0	0	0	Line	150	56	Prod + Cheyenne	1,060	T	Wat + Oil Exp	36	122,263	47,981	681,426	116,546	
Huffstutter	Thos. H. Allan	Huffstutter	64202	8141	Culbertson, Dusin, Ellis, Skelton	13-2-19W	P	400	---	Lans-KC	3,275	21*	8	0	0	0	1960	3	0	0	0	Perip.	400	455	Prod + Dakota	1,185	U	Gas Exp	36	166,214	20,926	552,508	64,365	*21 ft in 4 zones
Huffstutter	Livingston Oil Company	North Huffstutter Unit	58713	6746	Unitized	16,17,22-1-18W	W	2,200		Lans-KC	3,400	254	36	0	2	0	1959	15	0	0	0	Irreg.	450	100	Dakota	1,055	T	S Gas	37	539,898	154,208	1,843,657	475,267	
Huffstutter	Petroleum Mgmt., Inc.	Center Huffstutter Unit	65320	8461	Unitized	31-1-18W;6,7-2-18W	W	1,400	280	Lans-KC	3,365	235	45	1	0	0	1961	10	0	0	0	Irreg.	350	130	Dakota	1,050	T	S Gas	37	485,711	217,400	1,051,724	325,315	
Huffstutter	Phillips Petroleum Co.	Huffstutter Unit	70676	---		7-2-18W;12-2-19W	W	470	0	Lans-KC	3,400	---	15	0	0	0	1963	4	0	0	0	Irreg.	0	107	Prod + Dakota	1,000	U	S Gas	36	105,885	12,602	105,885	12,602	
Huffstutter	Sam P. Wallingford, Inc.	Kelly Unit	---	8195	Heffron, Hopper, Kelly	23-2-19W	W	240	0	Lans-KC	3,280*	4**	5	0	0	0	1961	2	0	0	0	Perip.	450	195	Prod + Dakota	1,550	T	S Gas	33	141,724	15,212	343,375	42,869	*3280 to 3456 **4' to 8'
Logan	Bankoff Oil Company	Logan Pool Waterflood	68733	---	Bowman, Brown, Hill "A", Hill "B", Perry	2,3-5-20W	W	210	110	Lans-KC	3,150	75	11	0	0	0	1962	2	0	0	0	Perip.	425	500	Prod + Arbuc	3,400	T	S Gas	37	332,718	21,759	539,954	53,476	
Mont-Sol	Sohio Petroleum Company	Mont-Sol L-KC Unit	59233	6898	Krause "A" & "B", Sophie Meyer	6,7-4-18W;1,12-4-19W	W	100	0	Lans-KC	3,200	28	3	0	0	0	1960	2	0	0	0	Line	900	286	Prod + Dakota	1,130	T	S Gas	36	208,881	9,656	491,694	30,749	
Stuttgart	Phillips Petroleum Co.	Stuttgart Unit	56624	---		13,14,23-3-19W	W	165	0	Lans-KC	3,200	35	7	0	0	0	1952	4	0	0	0	Irreg.	0	375	Prod + Dakota	1,200	U	S Gas	37	547,646	14,426	3,453,888	170,389	
Total Phillips County								5,825	870				137	1	2	0		48	0	0	0									2,650,940	512,170	9,064,111	1,291,578	
PRATT COUNTY																																	
Chance	General American Oil Company of Texas	Chance (Simpson) Pilot Flood	71588	10264	Calbeck	33-26-13W	W	80	40	Simp	4,326	15	2	0	0	0	1963	1	0	0	0	Irreg.	0	289	Wells	60	F	S Gas	35	21,949	1,281	21,949	1,281	
Chitwood Cunningham	Monsanto Company Skelly Oil Company	Chitwood Unit Southwest Cunningham Waterflood	47551 58529	4080 6700	Chitwood Unit Armitstead "B" & "C", O.L. Bowers, Fitzsimmons "A" & "B"	14,22,23,26,27-28-12W 35-27-11W;2,3-28-11W	P ---	1,492 320	0 0	Simp Lansing	4,390 3,501	23 8	29 ---	15 ---	0 ---	0 ---	1955 1958	15 ---	6 ---	0 ---	0 ---	Perip. Irreg.	* ---	375 ---	Prod + Topeka Sh Sd	2,500 80	M F	S Gas S Gas	38 32	2,057,590 ---	102,541 ---	26,692,476 ---	2,747,073 ---	*Vacuum
Fitzsimmons South	Sterling Drilling Co.	Fannie A #1	67055	8940	Elliott A, Fannie A, Greenstreet	32-27-13W;5,6-28-13W	P	196	320	Simp	4,393	24	5	1	0	0	1962	1	0	0	0	Irreg.	500	500	Prod + Sh Grav	70	M	Gas Exp	32	128,686	0	198,479	0	
Frisbie Frisbie Northeast	Texaco Inc. Skelly Oil Co.	F. Smith Northwest Frisbie Waterflood	53184 62827	5215 7745	F. Smith R.J. Kipp, Z.K. Russell	6-26-13W 4,5-26-13W	W W	240 30	--- 0	Lansing Lansing	3,910 3,710	x 18	4 2	--- 0	--- 0	--- 0	1957 1960	2 1	--- 0	--- 0	--- 0	Irreg. Irreg.	0 300	80 258	Prod Sh Sd	80	U F	S Gas S Gas	32 28	65,256 94,137	9,150 2,543	265,013 309,576	30,898 6,109	
Iuka-Carmi Iuka-Carmi	Beardmore Drilling Co. CRA, Inc.	Lunt Lease Honeman	67588 ---	9116 7273*	Lunt Harrel "A", Honeman, McFadden	25-26-13W 31-26-13W;36-26-13W; 6-27-12W	W W	160 360	--- 80	Viola Simp	4,192 4,230	26 33	4 15	0 2	0 0	0 0	1962 1954	1 3	0 0	0 0	0 0	Irreg. Irreg.	* **	700 389	x Pleist	90 210	M F	S Gas S Gas	36 38	256,861 425,925	0 59,959	467,341 1,244,814	0 156,199	*Vacuum *7812, 6932; **Vacuum
Iuka-Carmi Iuka-Carmi	CRA, Inc. Shell Oil Company	Justice-Seidel Honeman Waterflood	--- 63696	7187* 7970	Justice, Seidel W. Honeman	19-27-12W 31-26-12W	W W	160 160	0 0	Simp Simp	4,295 4,245	50 50	6 5	1 1	0 0	0 0	1959 1960	2 2	0 0	0 0	0 0	Irreg. Irreg.	** *	325 602	Pleist x	90 200	F F	S Gas S Gas	38 36	237,408 439,768	26,339 335,987	1,089,612 1,007,287	72,841 363,987	*7417; **Vacuum *Gravity
Iuka-Carmi	Skelly Oil Company	Iuka-Carmi-Helmke Unit	59230	6895	Beck "A", Helmke "H", "J", "B", Luders "B", F.B. Wagner	6,7-27-12W	W	80	480	Simp	4,230	18	26	1	0	0	1961	1	0	0	0	Irreg.	*	358	Sh Sd	86	F	S Gas	38	130,684	28,284	437,642	69,413	*Vacuum
Iuka-Carmi	Skelly Oil Company	South Iuka-Carmi Unit	64410	8203	S. Beck, J.E. Brown, M.D. Burkner, M.A. Justice, Luders "B", G. Seidel, F.B. Wagner	7,18-27-12W;12-27-13W	W	160	420	Simp	4,270	16	19	2	0	0	1961	1	0	0	0	Irreg.	*	608	Sh Sd	90	F	S Gas	38	221,765	97,669	623,408	126,834	*Vacuum
Moore Southwest	Champlin Oil & Refining Company	Southwest Moore Field	55345	5711	Southwest Moore Unit	10,11,14,15-26-14W	W	314	0	Kindh	4,244	6	3	0	0	0	1957	3	0	0	0	Irreg.	1,300	86	Simp	4,250	---	S Gas	36	29,978	7,517	352,090	97,964	
Total Pratt County								3,752	1,340				120	23	0	0		33	6	0	0									4,110,007	671,270	32,709,687	3,672,599	
RENO COUNTY																																	
Burrton	K & P Oil Company	Seedle & Scheuchzer Unit	---	9155	Seedle, Scheuchzer	17-24-4W	W	160	0	Miss Chat	3,340	30	8	0	0	0	1961	2	0	0	0	Irreg.	0	1,390	Prod + Sh Sd	60	M	S Gas	35	1,101,000	0	2,212,845	0	
Burrton Burrton	Sunray DX Oil Company Sunray DX Oil Company	Teten Westfahl "A" & "B"	--- 68190	5368 9228	Teten Westfahl "A" & "B"	12-23-4W 19-24-4W	D D	80 40	80 120	Missi Miss Chat	3,400 3,329	15 57	8 3	0 3	0 0	0 0	1961 1963	1 1	0 0	0 0	0 0	Irreg. Irreg.	* *	1,000 750	Prod Prod		U U	S Gas S Gas	35 36	360,000 276,000	6,854 3,235	x 425,893	952,907 4,880	*Gravity *Gravity
Burrton	Wilcox Oil Company	F.F Neufeld Lease	54331	5468	Neufeld	12-23-4W	P	80	0	Missi	3,242	18	1	0	0	0	1957	1	0	0	0	Irreg.	x	x	Prod		U	S Gas	40	x	x	x	x	
Sterling Southwest	Mull Drilling Company, Incorporated	Southwest Sterling Project	72493	10601	Barber, Grover, Henry, Morgan, Schechter	16,17,20,21-22-8W	P	640	0	Penn Congl	3,600	20	16	0	0	0	1963	1	0	1	0	Irreg.	*	243			U	**	36	7,354	0	7,354	0	*Vacuum; **Wat + S Gas
Zenith-Peace Creek	Cities Service Oil Co.	Peace Creek Unit	49375	4456*	Peace Creek Unit	30,31-22-9W;35,36-22-10W;6-23-9W;1,2,11, 12-23-10W	W	2,120	0	Viola	3,750	---	7	5	0	8	1951	8	0	0	0	Line	0	770	Prod + Fresh	185	M	S Gas	39	2,249,400	80,177	19,809,044	1,065,348	*C-2754
Total Reno County								3,120	200				43	8	0	8		14	0	1	0									3,993,754	90,266	22,455,136	2,023,135	
RENO-RICE																																	
Sterling	Thos. H. Allan	Sterling	56818	6188	Mayer, Sylvia Mayer, Stubbs	4,9-22-8W	P	400	---	Missi	3,420	10	10	1	0	0	1958	1	0	0	0	Perip.	1,200	286	Prod + Fresh	50	M	Gas Exp	36	104,480	15,435	257,480	15,435	
RICE COUNTY																																	
Chase-Silica	Cities Service Oil Co.	Behnke Unit	63724	7984	Behnke Unit	6-19-9W;1-19-10W	W	73	0	Lans-KC	3,180	27	5	0	0	0	1961	7	0	0	0	5-spot	69	211	Fresh	100	F	S Gas	40	539,620	18,170	1,641,214	34,821	
Chase-Silica	Continental Oil Company	Wolf Lansing-KC WF	63204	7836	J.F. Wolf	20-19-10W	P	23	0	Lans-KC	2,966	43	4	0	0	0	1960	1	0	0	---	Irreg.	800	419	Prod + Arbuc + Surface	20	M	S Gas	41	161,085	4,613	422,892	4,685	
Chase-Silica	The Henderson Oil Company	Keller	70373	9916	Keller	5-19-9W	D	160	0	Arbuc	3,235	---	2	0	0	0	1963	1	0	0	0	Irreg.	0	120	Prod		U	Wat	47	39,600	0	39,600	0	
Chase-Silica	Isern-Wells	Cooperative Flood with C.S.O. Behnke unit	66522	8803	Gemeinhardt	12-19-10W	W	80	---	Lans-KC	3,070	20	2	---	---	---	1961	1	---	---	---	5-spot	0	230	Dakota		F	S Gas	40	59,814	0	229,855	0	
Chase-Silica	Herman George Kaiser, Oil Prod.	Saint	60755	7225	Saint	10-19-9W	D	80	0	Simp	3,239	28	2	0	0	0	1959	1	0	0	0	Line	0	3	Prod		U	Gas Exp	39	913	0	913	0	
Chase-Silica	National Cooperative Refinery Association	Raymond District	72221*	10470*	Bayer "A" & "B", Rose "A", "B", "C", "E"	19,20-20-10W	W	440	0	Lansing	3,080	13	5	0	0	0	1963	3	0	0	0	Irreg.	500	310	Prod		U	S Gas	35	40,041	0	40,041	0	*69811, 9698
Chase-Silica	Pan American Petroleum Corporation	Roth Waterflood	62736	---	H. Roth	29-19-10W	W	160	0	Lansing	2,952	104	1	0	0	0	1960	1	0	0	0	Irreg.	0	981	Prod		U	S Gas	46	35,824	3,880	139,772	10,284	
Chase-Silica	Skelly Oil Company	Bernstorf Area Waterflood	56401	6044	Bernstorf "A", "B", "D", & H.A. Hutchins	22,23-19-10W	W	220	0	Lansing	3,140	12	11	0	0	0	1958	2	0	0	---	Irreg.	*	604	Prod		U	S Gas	37	223,588	18,011	1,581,280	264,834	*Vacuum
Chase-Silica	Skelly Oil Company	Knop "A" Waterflood	61348	7360	Knop "A"	21-19-10W	W	80	0	Lansing	3,110	39	5	0	0	0	1960	1	0	0	0	Irreg.	1,600	60	Prod		U	S Gas	40	21,879	8,619	188,851	12,201	
Frederick	Beardmore Drilling Co.	Staatz	70343	9892	Staatz, Sturgeon	10,15-18-9W	W	80	0	Penn Congl	3,265	10	3	0	0	0	1963	1	0	0	0	Irreg.	*	183	Prod		T	Wat	47	66,600	0	66,600	0	*Vacuum
Frederick	The Shallow Water Refining Company	Staatz	70546	9961	Staatz, Schroeder	10,11-18-9W	P	240	0	Simp	3,252	8	6	0	0	0	1963	1	0	0	0	Irreg.	0	5	Prod		U	*	47	7,564	x	7,564	x	*Limited water
Geneseo-Edwards	Continental Oil Company	Geneseo Simpson Sand	60799	7243	Geneseo Simpson Sand Unit	31-18-7W	W	194	0	Simp	3,170	16	18	1	0	0	1960	4	0	0	0	Line	1,100	13,250	Prod + Arbuc	3,200	T	S Gas	38	523,425	100,930	1,790,802	354,750	
Odessa	The Atlantic Refining Company	Odessa Field Unit	---	4823*	Odessa Field Unit	28,29,32,33-18-6W; 4-19-6W	W	800	---	Marmaton	3,090	8	11	0	0	0	1959	6	0	0	0	Irreg.	169	322	Lans-KC	2,900	U	S Gas	28	704,403	112,675	2,090,053	786,929	*C-8206
Orth	A. L. Abercrombie, Inc.	Habiger	56383	6033	Habiger	27-18-10W	D	640	0	Topeka	2,684	20	---	0	0	1	1958	1	0	0	1	Irreg.	0	25	Prod		U	Grav	40	3,900	0	13,800	0	
Orth	Meltzer Oil

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS		NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED		PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS				DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS				WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRO-DUCED OIL	1963 (Bbls)		TO END OF 1963 (CUMULATIVE, Bbls)		ADDITIONAL INFORMATION
			Comm. No.	Consv. No.				Current	Add.				Active	Inact.	Drld.	Abd.		Active	Inact.	Drld.	Abd.								WATER INJECTED	OIL PRODUCED	WATER INJECTED	OIL PRODUCED	
RICE Cont.																																
Ringwald	Union Texas Petroleum Corporation.	Ringwald Field	61930	7522	Gemeinhardt, Ringwald	29,32-18-10W	W	140	0	Lans-KC	2,930	30	6	0	0	0	1961	1	0	0	0	*	1,800	425	Prod		U	S Gas	40	159,355	39,330	461,355	74,780	*Low well injection
Tobias	Thunderbird Drlg., Inc.	Tobias Simpson Oil Pool	71375	101096	Caskey, Fair "A", "B", Faler, Gillen, Harrison, Koons, Pulliam, Schafer, Tobias	24,25,26,27,35,36-20-9W;1,2,3-21-9W	P	1,440	640	Simp	3,300	16	0	0	0	0	1964	0	2	2	0	Perip.	0	0	Alluvium	10	F	S Gas	45	0	0	0	0	
Welch-Bornholdt	Kewanee Oil Company	Malm-Matt Waterflood	67503	9071	Malm, Matt	25-20-6W	W	120	---	Missi	3,298	43	5	0	0	0	1962	1	0	0	0	Irreg.	750	166	Sh Grav	62	F	Wat	35	60,524	0	72,800	0	
Welch-Bornholdt	Plains Exploration Co.	Welch-Bornholdt Repressuring System	72901	10733	Ainsworth, Alexander, Belden, Burke, Duvall "A", "B", Eaton, Fair "B", Fry, Fry "C" Unit, Fry "E", G. Fry, L. Fry, Hanson, Hubenett, Johnson "D", Johnson "E",*	15,16,21,22,23,24,25, 26,27,28,33,34-20-6W;4-21-6W	W	1,810	2,000	Miss Chat	3,400	---	44	---	5	---	1958	8	---	---	0	Irreg.	800	165	Prod		U	S Gas	34	480,000	9,750	1,450,000	15,550	*Johnson-Ferguson, Jones, Lee-Hubenett, Lewis-Slabach, Libby, Lindholm, Lindholm "B", Malm "A", Malm "C", Moll, A. Moll, Olander, Tobias, Van Horn, Wernet
Welch-Bornholdt	Shade & Berry		59088	6848	Mattson 1A	25-19-6W	P	---	---	Miss Chat	3,436	14	11	1	0	0	1959	1	0	0	0		0	200	Prod	---	U	*	34	72,933	---**	223,299	---	*Dissolved gas and partial water drive **We feel that B.H.P. decline is being retarded
Welch-Bornholdt	Sterling Drilling Company	Harder "B"	71563	10253	Harder B	36-20-6W	P	160	0	Missi	3,356	25	4	0	0	0	1963	1	0	0	0	Irreg.	0	43	Prod		U	S Gas	32	2,000	0	2,000	0	
Welch-Bornholdt	Sterling Drilling Company	Miller-Johnson	32589*	5072*	Miller-Johnson	3,4-21-6W	P	320	0	Missi	3,421	50	12	1	0	0	1958	1	1	0	0	Irreg.	300	1,300			U	S Gas	35	475,000	0	2,683,000	0	*66320, 8754
Total Rice County								7,560	2,800				171	3	5	1		49	3	2	1								4,462,406	326,733	18,990,094	1,686,343	
ROOKS COUNTY																																
Bemis-Shutts Carmichael	Tenneco Oil Company Petroleum, Inc.	Project Carmichael Unit	61705 70022	7453 9767	Kempe "A" Carmichael - Mosher "A", Welch "A-C"	31-10-17W 33-8-18W	W W	320 480	0 0	Lans-KC Lans-KC	3,430 3,175	8 231	3 3	1 0	0 0	0 0	1959 1963	2 1	0 0	0 0	0 0	Irreg. Line	430 0	68 326	Prod Prod + Dakota	750	U M	S Gas S Gas	34 35	49,796 67,793	7,505 2,163	146,790 67,793	24,778 2,163	
Chesney Dorr	Cities Service Oil Co. Cities Service Oil Co.	Chesney Unit Dorr Unit	70567 42545*	9977 2957*	Dorr Unit	12-8-17W 16,17,20,21-9-16W	W W	480 170	0 450	Lans-KC Dodge + Lans-KC	3,060 3,141	13 45	4 25	0 2	0 0	0 0	1963 1952	3 6	0 0	0 0	0 0	Perip. 5-spot	0 40	100 264	Prod + Dakota Prod + Dakota	512 800	U M	S Gas S Gas	36 38	1,500 577,820	0 85,676	1,500 883,462	0 85,676	*67972, 9161
Dorr Finney South	Theodore Gore Davis Bros.	South Finney Water Flood	68115 63026	9185 ---	Casey, Meyers Garvert I, Shepard A, Shepard C	16,21-9-16W 23,24-10-18W	W W	320 320	0 ---	Lans-KC Lans-KC	3,445 3,500	251 75	5 4	0 0	1 0	0 0	1962 1960	1 4	0 0	0 0	0 0	Irreg. Perip.	* 300	429 170	Prod Prod		U U	Wat Grav	39 34	141,021 175,000	24,664 40,000	156,452 440,000	29,600 90,335	*Vacuum
Jelinek Kruse	Tenneco Oil Company Cities Service Oil Co.	Wilfred Benoit Kruse Unit	66498 71577	8793 10258	Wilfred Benoit	26-9-19W 2,11-10-16W	W W	120 103	0 0	Lans-KC Dodge + Lans-KC	3,317 3,050	9 34	1 7	0 0	0 0	0 0	1962 1963	1 2	1 0	0 0	0 0	Irreg. Irreg.	x 50	65 150	Prod Prod + Dakota	730	U U	S Gas S Gas	33 37	23,697 2,750	1,731 0	45,886 2,750	1,820 0	
Laton	Cities Service Oil Co.	Layton Pool Co-op.	45545	3504	Adams A,B,C,D, Dennis, Hodson, Holy Cross	33,34-8-16W;4-9-16W	W	780	120	Dodge + Lans-KC	3,070	53	18	0	4	0	1953	6	0	4	0	Irreg.	100	187	Prod + Dakata	850	M	S Gas	33	408,707	65,170	1,118,566	138,701	
Laton	Max Cohen	Doane-Swisher Co-op. W.F.	58275	6619	Doane, Swisher	34-8-16W	W	280	40	Lans-KC + Toronto	3,020	52	5	0	1	0	1962	2	0	1	0	Irreg.	0	350	Prod + Dakota	800	M	S Gas	39	131,865	39,519	239,858	49,561	
Laton	CRA, Inc.	Gamble	---	7166	Gamble	3-9-16W	W	200	40	Lans-KC	3,130	25	5	0	0	0	1959	1	0	0	0	Irreg.	550	462	Dakota	400	F	S Gas	40	168,359	5,318	740,653	51,680	
Laton	CRA, Inc.	Luhman	---	7831	Luhman	11-9-16W	P	80	40	Lans-KC	3,130	30	2	1	0	0	1960	1	0	0	0	Irreg.	*	8	Prod		T	S Gas	40	2,819	4,870	61,636	11,891	*Vacuum
Marcotte	Texaco, Inc.	H. Berland	46838	3928	H. Berland	19,30-10-19W	W	640	---	Arbuc	3,775	---	10	1	---	---	1958	3	---	---	---	Irreg.	400	300	Prod		U	Wat	26	327,845	0	1,909,979	0	
Trico	Colorado Oil & Gas Corp.	Williams Lease	63458	7906	Williams	27-10-20W	P	30	0	Arbuc	3,690	7	1	1	0	0	1960	1	0	0	0	Irreg.	250	298	Prod		U	Wat	30	108,788	1,200	427,303	6,625	
Trico	Sterling Drilling Company	Trible	69044	9412	Trible	28-10-20W	D	160	0	Arbuc	3,739	11	3	0	0	0	1962	1	0	0	0	Irreg.	0	25	Prod		U	Grav	31	9,125	0	12,845	0	
Westhusin	The Atlantic Refining Co.	McClay Lease	---	10080	McClay	12-9-17W	W	80	0	Lans-KC	3,130	254	4	0	0	0	1963	1	0	0	0	Irreg.	*	377	Prod		U	S Gas	35	103,500	32,927	103,500	32,927	*Vacuum
Westhusin	CRA, Inc.	Westhusin	---	10108	Baxa, McClay, Dora Smith, Westhusin Unit, Westhusin "F", J. Westhusin	11,12-9-17W	W	260	230	Lans-KC	3,155	30	13	3	3	1	1963	2	0	0	0	Irreg.	*	624	Prod		T	S Gas	34	74,880	8,792	74,880	8,792	*Vacuum
Zurich	The Veeder Supply and Development Company	Casey	58112	---	Casey	35-10-19W	D	160	160	Lans-KC	3,300*	25**	1	0	0	0	1958	1	0	0	0	Irreg.	0	56	Prod + Dakota	700	T	S Gas	33	20,160	742	265,660	8,322	*To 3,550 ft; **4 zones
Zurich	The Veeder Supply and Development Company	McCullough	58200	---	Johnson, McCullough	35-10-19	D	160	160	Lans-KC	3,300*	25**	2	0	0	0	1958	1	0	0	0	Irreg.	0	100	Prod + Dakota	700	T	S Gas	33	36,500	3,388	282,000	32,991	*To 3,550 ft; **4 zones
Total Rooks County								5,143	1,240				116	9	9	1		40	1	5	0								2,431,925	323,665	6,981,513	575,862	
RUSH COUNTY																																
Otis-Albert	Independent Lease Mgmt. Company	Otis-Albert	61700	7448	Brack, Crowell, Koriel "A", Koriel "B", J. Schroeder, O. Schroeder	23,24-18-16W	W	270	80	Reagan	3,500	27	10	0	0	0	1960	7	2	0	0	Irreg.	0	517	Dakota	500	U	Gas Exp	37	1,510,172	35,120	4,111,850	106,957	
Otis-Albert	Skelly Oil Company	Peter Rodie Waterflood	63781	8015	Peter Rodie	27-18-16W	P	80	0	Reagan	3,590	12	3	0	0	0	1960	1	0	0	0	Irreg.	*	36	Prod		U	S Gas	34	13,089	0	126,224	0	*Vacuum
Otis-Albert	Skelly Oil Company*	West Albert Unit	65333	8473	Dyer, Hanhardt, Miller, Monson	21-18-16W	---	---	---		---	---	---	---	---	---	---	---	---	---	---		---	---		---	---		--	---	---	---	---	*Sold to Solar June 1, 1963
Total Rush County								350	80				13	0	0	0		8	2	0	0								1,523,261	35,120	4,238,074	106,957	
RUSSELL COUNTY																																
Fairport	Pan American Petroleum Corporation	Booth Waterflood	52071	---	F. Booth "A"	30-11-15W	W	80	0	Dodge	2,875	10	3	0	0	0	1956	1	0	0	0	Irreg.	220	617	Prod		U	S Gas	36	225,208	18,144	979,956	143,331	
Fairport Gorham	Texaco, Inc. CRA, Inc.	P. Jacobs Reinhardt-Brandenburg	40181 4105	2513 9115	P. Jacobs Brandenburg, Reinhardt "D"	31-12-15W 19,20-14-14W	W W	160 160	--- ---	Lansing Lans-KC	3,000 3,055	x 18	6 4	--- 1	--- 1*	--- 0	1958 1954	2 2	--- 1	--- 0	--- 1	Irreg. Irreg.	350 10	600 533	Prod Prod		U T	S Gas S Gas	33 42	428,729 389,352	12,588 23,634	1,013,860 2,872,623	50,207 154,336	*Recompletion
Gorham Gorham	Duke Drilling Company Home-Stake Production Co.	Flegler Gorham Water-flood Projects	639546 67740*	--- ---	Flegler Aley "A", "B", Baxter "A", "B", "C", Carter "G", Dortland "C", G. Dortland "A", "B", J. Dortland, Marg	28-14-14W 32,33-13-15W;3,4,5,8, 9-14-15W	D W	80 1,760	? 400	Lans-KC Lans-KC	3,068 3,050	--- 30	5 45	1 0	0 20	0 0	1960 1962	1 29	0 0	0 11	0 0	Irreg. 5-spot	600 400	200 490	Prod Prod + Dakota	200	U F	S Gas S Gas	40 36	65,714 3,312,860	7,690 200,000	199,714 4,029,653	24,500 250,000	*70258; **Foster "B", Lincnberger, Mermis "A", "B", "C", "D", Mills "A", "B", Witt "A", "D", "E", "F"
Gorham	Phillips Petroleum Co.		---	---	Dortland, Foster "A" ** Carroll	18-14-14W	W	70	0	Lans-KC	3,100	50	5	0	0	0	1957	2	0	0	0	Irreg.	0	770	Prod		U	S Gas	41	526,136	16,109	2,558,161	93,272	
Gorham	Sunray DX Oil Company	Dumler-Polcyn	64983	8387	Dumler-Polcyn	11-14-15W	W	31	40	Lansing	3,030	10	4	0	0	0	1961	1	0	0	0	Irreg.	0	261			U	S Gas	37	95,197	11,634	200,836	33,080	
Gorham	Texaco, Inc.	D. H. Brandenburg	47640	4098	D.H. Brandenburg	20-14-14W	W	160	---	Lansing	3,100	x	3	---	---	---	1954	3	---	---	---	Irreg.	0	400	Prod		U	S Gas	34	411,000	17,096	2,465,305	98,416	
Hall-Gurney	American Petrofina Company of Texas	Blehm & Boxberger Waterflood	68918	9395	J. Blehm, B. Boxberger	11-14-14W	W	160	320	Tarkio	2,380	10	5	0	0	0	1963	2	2	0	0	Irreg.	*	26	Prod		U	S Gas	36	196,016	2,743	196,016	2,743	*450 psi - Blehm, 700 psi - Boxberger
Hall-Gurney	American Petrofina Company of Texas	George Rein	69323	9516	George Rein	17,20-14-13W	W	160	160	Tarkio	2,410	10	8	0	0	0	1962	3	0	0	0	5-spot	400	200	Prod		U	S Gas	38	219,776	35,302	234,156	38,035	
Hall-Gurney	Aylward Drilling Co.	Holl "A"	---	7946	Holl "A"	22-14-14W	W	160	0	Tarkio + Lans-KC	2,400 3,100	5 90	14	0	0	0	----	4	0	0	0	Irreg.	300	344	Prod + Dakota	300	U	S Gas	38	501,880	51,167	3,433,181	230,000	
Hall-Gurney	Aylward Drilling Co.		---	7946	Holl "A"	22-14-14W	P	160	0	Lans-KC	2,008	120	14	0	0	0	1954	4	0	0	0	Irreg.	345	352	Prod		T	S Gas	37	514,338	48,111	2,390,872	561,664	
Hall-Gurney	Aylward Drilling Co.	Holl "B"	63543*	7947*	Holl "B"	22-14-14W	W	---	0	Tarkio + Lans-KC	2,415 3,100	5 90	14	0	0	0	1960	2	0	0	0	Irreg.	300	---	Prod + Dakota	300	U	S Gas	38	230,820	53,371	1,220,000	200,000	*63546, 7950
Hall-Gurney	Aylward Drilling Co.		---	7950*	Holl "B"	22-14-14W	P	160	0	Lans-KC	2,930	110	14	2	0	0	1959	2	1	0	1**	Irreg.	600	745	Prod + Dakota	275	T	S Gas	37	196,339	53,379	977,454	198,021	*7947; **temporary
Hall-Gurney	Aylward Drilling Co.		---	7167	J. Boxberger	26-14-14W	P	80	0	Lans-KC	2,895	110	5	0	0	0	1957	1	0	0	0	Irreg.	600	433	Prod + Dakota	250	T	S Gas	38	156,106	12,003	363,955	50,813	
Hall-Gurney	Aylward Drilling Co.		---	7165	Herble "B"	26-14-14W	P	80	0	Lans-KC	2,900	110	5	0	0	0	1961	1	0	0	0	Irreg.	1,900	200	Prod + Dakota	257	T	S Gas	36	112,022	16,679	215,873	45,004	
Hall-Gurney	H. C. Bennett	Herbert Becker	---	4434	Herbert Becker	33-14-14W	D	160	---	Tarkio	---	---	2	0	0	0	---	1	0	0	0	Irreg.	---	60	Prod		T	Wat	36	9,000	326	70,000	10,000	
Hall-Gurney	Carl W. Boxberger	Dumler-Graham	---	9983*	Dumler, Graham	16,21-14-13W	W	160	80	Tarkio	2,365	25	7	1	1	0	1963	2	0	0	0	Irreg.	200	200	Dakota	390	U	S Gas	38	174,610	4,948	174,610	4,948	*9974
Hall-Gurney	Cities Service Oil Co.	Graham-Carter Co-op	38929	2328	Carter, Graham	28,29-14-13W	W	80	10	Lans-KC	2,880	23	5	2	0	0	1950	3	0	0	0	Irreg.	620	228	Prod + Dakota	300	M	S Gas	37	249,450	46,712	578,719	86,695	
Hall-Gurney	Cities Service Oil Co.	Hall-Gurney Tarkio Co-op	50422*	4724*	Ebel "A", "B", Hickey, Strecker "B"	24,25,36-14-14W	W	500	0	Lans-KC	2,880	66	16	0	0	1	1949	8	0	0	0	Perip.	460	516	Prod		T	S Gas	37	1,507,692	136,831	5,325,202	571,016	*36798, 2030; 50483, 4738; 61932, 7524
Hall-Gurney	Cities Service Oil Co.	Hall-Gurney Tarkio Co-op	56260*	5989*	Dumler, Ebel "A", "B", Hickey	24,25-14-14W	W	397	0	Tarkio	2,250	10	21	1	1	0	1959	19	0	0	0	5-spot	700	76	Dakota	350	T	S Gas	38	528,996	81,606	1,826,112	403,606	*61879, 7492; 61932, 7524; 62828, 7746
Hall-Gurney	Colorado Oil and Gas Corporation	Weimaster (L-KC)	70677	9985	Weimaster	36-14-13W	W	80	0	Lans-KC	2,850	150	2	0	0	0	1963	1	0	0	0	Irreg.	450	459	Prod + Arbuc	3,143	U	Wat	38	144,272	3,100	144,272	3,100	
Hall-Gurney	Colorado Oil and Gas Corporation	Weimaster (Tarkio)	53897	5407	Weimaster	36-14-13W	W	20	0	Tarkio	2,206	68	1	1	0	0	1957	1	0	0	0	Irreg.	0	621	Prod + Arbuc	3,143	U	Inact Wat	38	226,851	980	546,753	12,325	
Hall-Gurney	Continental Oil Company	Hall-Gurney WF	49935	4592	R.S. Hall, Wm. Leisch, R. Lipprand, A.C. Rogg	26,35-14-13W	W	293	0	Lans-KC	2,800	20	16	2	0	0	1956	10	1	0	0	Irreg.	700	90	Sh Grav + Sh Sd	16 40	F	S Gas	39	355,576	68,658	2,902,382	378,026	
Hall-Gurney	Continental Oil Company	Rein Area WF	69039	9407	H. Rein, H. Rein "A"	27-14-13W	W	160	0	Lans-KC	2,860	13	5	0	0	0	1962	2	0	0	0	Irreg.	410	492	Cheyenne	88	U	S Gas	39	357,586	13,439	372,586	13,439	
Hall-Gurney	CRA, Inc.	Clyde, Ehrlich & Phinney (Tarkio)	---	7635*	Clyde, Ehrlich, Phinney	19,30-14-13W	W	180	70	Tarkio	2,300	10	11	2	0	0	1959	7	0	0	0	5-spot	800	119	Dakota	x	F	S Gas	38	304,510	20,540	886,555	107,861	*3057, 6127, 6527, 7567
Hall-Gurney	CRA, Inc.	Fink	---	5396	Herbert Fink, Horace Fink	15,16-14-14W	W	240	0	Lans-KC	3,070	17	7	0	0	1	1957	1	0	0	0	Irreg.	1,300	615	Prod		T	S Gas	38	224,328	16,864	825,935	162,637	
Hall-Gurney	CRA, Inc.	Duke Unit-Dumler "A"	---	8414*	Dumler "A", Hoke Unit	15-14-13W	W	130	30	Tarkio	2,355	6	7	0	0	0	1961	5	1	0	0	5-spot**	150	90	Dakota	115	M	S Gas	39	92,053	11,023	106,246	11,023	*8415; **incomplete
Hall-Gurney	Leo J. Dreiling Oil Co.	Krug	69805	---	Krug	4-14-14W	D	110	320	Lansing	3,049	20	4	0	0	0	1962	1	0	0	0	Irreg.	0	200	Prod		T	S Gas	40	109,998	18,000	129,875	18,000	
Hall-Gurney	Duke Drilling Company	Boxberger	69066	---	Boxberger	21-14-14W	D	160	0	Lansing	3,127	---	10	0	0	0	1962	1	0	0	0	Irreg.	600	600	Prod + Dakota	320	T	S Gas	37	182,500	10,000	254,000	---	
Hall-Gurney	John O. Farmer, Inc.	Major	---	---	Major	4-15-12W	P	---	---	Lans-KC	2,914	4	3	0	0	0	1961	3	0	0	0	Irreg.	350	200	Prod		U	Gray	38	54,750	x	75,000	x	
Hall-Gurney	John O. Farmer, Inc.	Rein (Coop)	---	---	Rein	27-14-13W	W	80	0	Lansing	2,880	18	3	0	0	0	1962	1	0	0	0	Irreg.	600	500	Dakota	300	T	S Gas	40	178,260	10,375	178,760	10,375	
Hall-Gurney	Theodore Gore		49537*	4498*	Gurney A, Gurney B	23-14-14W	P	320	0	Tarkio + Lans-KC**	3,000	100	10	0	0	0	1955	2	0	0	0	Irreg.	600	467	Prod		U	Wat	37	170,440	34,596	1,048,440	220,636	*49538, 4499; **commingled
Hall-Gurney	Theodore Gore		67498	9066	Phillips Michel & Michel	36-14-14W	P	80	0	Lans-KC	3,000	100	1	0	0	0	1961	1	0	0	0	Irreg.	800	151	Prod		U		37	53,683	3,548	99,651	10,963	
Hall-Gurney	Theodore Gore		70556	9967	Ruby A	36-14-13W	P	240	0	Lans-KC	2,835	90	4	0	0	0	1963	1	0	0	0	Irreg.	600	40	Prod		U	S Gas	37	12,920	0	12,920	0	
Hall-Gurney	Theodore Gore		---	---	J. Boxberger	26-14-14W	P	160	0	Tarkio + Lans-KC*	3,000	100	5	0	0	0	1955	1	0	0	0	Irreg.	600	469	Prod		U	Wat	37	171,199	8,678	795,019	76,777	*Commingled
Hall-Gurney	Theodore Gore		---	---	Kastrup, Kaufman A, Zeman	10,15-15-12W	P	500	0	Lans-KC	3,000	48	7	0	0	0	1958	1	0	0	0	Irreg.	300	359	Prod		U	Wat	37	131,035	17,468	777,280	136,596	
Hall-Gurney	Graves Drilling Co., Inc.	Dumler	72508	---	Dumler	24-14-14W	W	40	120	Tarkio	2,300	15	6	0	2	0	1963	2	0	2	0	*	0	100	Dakota	400	T	Grav	38	35,000	3,000	35,000	3,000	*10-acre spacing
Hall-Gurney	Gulf Oil Corporation	Fink Pilot Waterflood	---	8293	Herbert A. Fink	15-14-14	W	160	0	Lans-KC	3,000	---	3	0	0	0	1960	1	0	0	0	Irreg.	598	162	Prod		U	S Gas	38	59,032	9,000	132,839	105,000	
Hall-Gurney	Jayhawk Well Servicing Company	Cody	---	8456	Cody	16-14-14W	W	160	0	KC Group	3,000	4	5	0	0	0	1961	1	0	0	0	Irreg.	0	150	Prod		U	Wat	39	55,000	2,000	275,000	10,000	
Hall-Gurney	Jayhawk Well Servicing Company	Holl	---	9078		21-14-14W	W	80	80	Tarkio + KC Group	2,350 3,000	--- 4	3	0	0	1	1961	1	0	0	0	Irreg.	100	100	Prod		U	S Gas	39	36,000	3,500	120,000	10,000	
Hall-Gurney	Keystone Petroleum, Inc.	Weimaster	48966	4379	Weimeister "A"	25-14-13W	P	40	---	Tarkio	2,171	5	2	0	0	0	1953	1	0	0	0	Irreg.	400	60	Prod		U	S Gas	35	21,900	3,866	176,000	30,400	
Hall-Gurney	Louis M. Mai	Campbell	---	9091	Campbell, Geise, Graham, Jones	22-14-13W	P	160	80	Tarkio	2,283	40	0	0	0	0	1964	0	1	1	0	*	---	---	Prod + Fresh	90	M	Grav + Gas	40	0	0	0	0	*Well drilled along west property line
Hall-Gurney	Louis M. Mai	Rudiger-Shaffer	64729	8345	Rudiger-Shaffer	3-15-13W	D	80	80	Lans-KC	2,970	36	5	0	0	0	1960	1	0	0	0	Irreg.	*	17	Prod		T	S Gas	39	6,056	600	19,800	4,525	*Vacuum
Hall-Gurney	Louis M. Mai	Ray Shaffer	---	5955	Ray Shaffer	26-14-13W	*	160	0	Tarkio + KC + Arb	---	---	2	0	0	0	1958	1	0	0	0	**	300	300	Prod		U	Grav	39	108,000	0	373,600	0	*P - D (sometime on gravity and sometime on pressure) **regular location
Hall-Gurney	National Cooperative Refinery Association	Rein "A"	57273	6310	Rein "A"	19-14-13W	W	70	0	Tarkio	2,325	11	6	1	0	0	1959	3	0	0	0	Irreg.	800	115	Prod + Dakota	300	U	Wat	40	125,882	15,374	352,048	42,714	
Hall-Gurney	R. P. Nixon	Bond Unit	63899	8022	Bond A, Bond B	23-14-13W	W	160	0	Tarkio	2,300	6	7	0	1	0	1963	3	0	1	0	Irreg.	475	170	Alluvium	65	M	S Gas	36	113,326	11,907	338,113	37,511	
Hall-Gurney	Pan American Petroleum Corporation	Krug Waterflood	49905	---	Krug "A", "B", Olson "A", "B", "C"	27,28-14-14W	W	160	0	Lansing	3,000	136	17	0	0	0	1953	9	0	0	0	Irreg.	200*	386	Prod + Dakota	265	U	S Gas	39	281,852	146,459	4,164,255	1,181,744	*2 wells only
Hall-Gurney	Pan American Petroleum Corporation	Ben Rein Waterflood	66931	---	Ben Rein	25-14-14W	W	160	0	Tarkio + Lansing	2,290 2,950	8 20	7	0	0	0	1957	3	0	0	0	Irreg.	337*	387	Prod		U	S Gas	38	423,977	24,523	1,929,576	530,803	*Only two wells on pressure
Hall-Gurney	Lee Phillips Oil Company	Letsch	65157*	8420*	Letsch	34-14-13W	W	120	0	Tarkio + Lans-KC	2,240 2,810	10 20	9	0	1	0	1961	3	0	0	0	Irreg.	400	600	River Sd	75	F	S Gas	38	219,000	16,785	304,000	19,255	*65749, 8615; 69318, 9511
Hall-Gurney	Shields Oil Producers, Inc.	Gustason Estate Lease	59087	6847	Gustason, Gustason Estate, Kastrup	14-15-12W	D	180	0	Toronto	2,840	10	4	0	0	0	1961	1	0	0	0	Irreg.	0	100	Prod		U	S Gas	36	36,000	4,800	108,000	12,000	
Hall-Gurney	Shields Oil Producers, Inc.	Rein Area Waterflood	69040	9408	Giese, Letsch, Rogg "B", "D", "F"	27,28,29-14-13W	W	520	0	KC Group	2,800	25	19	0	3	0	1963	8	0	0	0	Irreg.	550	350	Dakota-Cheyenne	300	M	S Gas	39	1,018,040	132,847	1,018,040	132,847	
Hall-Gurney	V. D. Sidey Oil Company

Table 1

Kansas Geological Survey

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS Comm. No.	ORDER DOCKET NUMBERS Consv. No.	NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED Current	NUMBER OF ACRES FLOODED Add.	PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS Active	NO. OF OIL WELLS Inact.	NO. OF OIL WELLS Drld.	NO. OF OIL WELLS Abd.	DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS Active	NO. OF WATER INJECT. WELLS Inact.	NO. OF WATER INJECT. WELLS Drld.	NO. OF WATER INJECT. WELLS Abd.	WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls) WATER INJECTED	1963 (Bbls) OIL PRODUCED	TO END OF 1963 (CUMULATIVE, Bbls) WATER INJECTED	TO END OF 1963 (CUMULATIVE, Bbls) OIL PRODUCED	ADDITIONAL INFORMATION
RUSSELL Cont.																																	
Trapp	Cities Service Oil Co.	N. E. Trapp	62366	7631		9-15-13W	W	160	0	Lans-KC	3,090	28	5	0	0	0	1960	3	0	0	0	Irreg.	0	215	Prod + Dakota + Arbuc	400 3,334	T	S Gas	37	235,277	7,036	1,035,215	18,948	
Trapp	Continental Oil Company	Trapp Lansing WF	62208	7606	J.W. Meharg	17-15-13W	W	160	0	Lans-KC	2,950	21	8	0	0	0	1961	5	0	0	0	Irreg.	425	150	Dakota + Cheyenne	550	U	S Gas	39	407,812	70,306	813,017	100,861	
Trapp	CRA, Inc.	Berrick	---	7666	Berrick	6-15-13W	P	80	0	Lans-KC	2,990	20	3	1	0	0	1960	1	0	0	0	Irreg.	370	358	Prod		T	S Gas	37	130,655	14,719	329,711	37,368	
Trapp	CRA, Inc.	North Trapp Co-op Waterflood	---	7607	Bitter, Holland, L. Sellens, T. Sellens	16,17-15-13W	W	480	80	Lans-KC	3,000	25	16	2	0	0	1961	14	0	0	0	5-spot	*	144	Dakota	x	F	S Gas	39	734,600	221,566	1,695,341	271,620	*Vacuum to 720 psi
Trapp	CRA, Inc.	Gale Sellens	10309	---	Gale Sellens	19-15-13W	P	130	190	Lans-KC	3,020	25	5	1	0	0	1960	1	0	0	0	Irreg.	1,400	366	Prod		T	S Gas	37	133,285	15,234	369,830	51,618	
Trapp	CRA, Inc.	George Sellens	---	7370	George Sellens	20-15-13W	P	160	80	Lans-KC	3,040	30	6	1	0	0	1959	1	0	0	0	Irreg.	500	909	Prod		T	S Gas	37	331,965	15,325	1,138,888	88,384	
Trapp	Humble Oil & Refining Co.	Trapp Waterflood	61992	7553	J. Detrich, D. Josephine, J. Letsch, E. Meharg, L. Sellens	7,8,17,18-15-13W	W	295	0	Lans-KC	3,000	21	16	0	0	0	1961	13	0	0	0	*	105	140	Dakota	244	T	Wat	39	667,845	146,464	1,437,309	183,074	*Irregular 20-acre 5-spot
Trapp	Isern-Wells	North Trapp Coop Flood	62210	7608	Meharg, Schultz	16-15-13W	W	120	120	Lans-KC	3,050	20	3	---	---	---	1961	3	---	0	0	5-spot	640	125	Dakota	490	F	S Gas	40	123,998	1,559	277,588	1,559	*62211, 7609
Trapp	Keystone Petroleum, Inc.	Anchutz Lease	64152	8115	Anchutz	10-15-13W	P	80	---	Lansing	3,052	15	3	0	0	0	1960	1	0	0	0	Irreg.	0	70	Prod		U	S Gas	37	25,000	2,000	75,000	6,000	
Trapp	National Cooperative Refinery Association	Boxberger "B"	72242	10484	Boxberger "A", "B"	10-15-14W	W	80	80	Lansing	2,976	6	3	0	0	0	1963	1	0	0	0	Irreg.	300	650	Prod		U	S Gas	36	47,450	1,774	47,450	1,774	
Trapp	National Cooperative Refinery Association	Flegler "B" (Lansing)	67734	9131	Flegler "B"	2,11-15-14W	W	50	0	Lansing	2,966	26	5	0	0	0	1962	1	0	0	0	Irreg.	900	986	Prod		U	S Gas	38	359,806	24,280	589,004	40,480	
Trapp	National Cooperative Refinery Association	Flegler "B" (Tarkio)	53055	5183	Flegler "B"	2,11-15-14W	W	60	0	Tarkio	2,298	8	6	0	0	0	1956	2	0	0	0	Irreg.	900	276	Prod		U	Wat	38	201,852	10,887	960,264	95,202	
Trapp	National Cooperative Refinery Association	Flegler "C"	56388	6038	Flegler "C", Michel "A"	11-15-14W	W	60	0	Lansing	3,057	12	6	0	0	0	1958	1	0	0	0	Irreg.	450	934	Prod		U	S Gas	38	341,010	16,447	1,625,010	43,617	
Trapp	National Cooperative Refinery Association	Krug	67572	9108	Krug	3-15-14W	W	20	0	Lansing	2,965	20	2	0	0	0	1962	1	0	0	0	Irreg.	600	236	Prod		U	S Gas	36	86,266	2,400	151,866	2,400	
Trapp	National Cooperative Refinery Association	Michel "A"	67735	9132	Michel "A"	2-15-14W	W	40	20	Tarkio	2,320	6	4	0	0	0	1962	1	0	0	0	Irreg.	900	209	Prod		U	Wat	38	76,300	5,497	139,035	26,107	
Trapp	Pan American Petroleum Corporation	Trapp Northeast Waterflood	62168*	---	J. Letsch "A", J. Letsch "B", R. Roesner	4,9-15-13W	W	520	520	Lansing	3,010	55	10	0	0	0	1960	9	0	0	0	Irreg.	200	151	Prod + Dakota	600	U	S Gas	39	496,835	47,420	1,773,383	92,572	*62169; 62206
Trapp	Phillips Petroleum Co.		62010	---	Roesner	9-15-13W	W	50	0	Lans-KC	3,100	---	2	0	0	0	1960	1	0	0	0	Irreg.	0	393	Prod + Dakota	1,200	U	S Gas	39	143,601	9,704	469,934	28,450	
Trapp	Shell Oil Company	L. Sellens	---	3537	L. Sellens "B", "C"	22-15-13W	W	160	0	Lans-KC	3,025	200	5	0	0	0	1960	1	0	0	0	Irreg.	*	123	Prod		U	S Gas	39	45,000	10,000	130,000	17,000	*Vacuum
Trapp	Shields Oil Producers, Inc.	Northeast Trapp	62118	7570	A.C. Rogg "A"	9-15-13W	W	160	0	KC Group	2,950	30	8	0	0	0	1960	3	0	0	0	Irreg.	600	185	Dakota-Cheyenne	400	M	S Gas	37	204,035	17,055	699,916	62,125	
Trapp	R. H. Siegfried, Inc.	Ross Lease	56176	5952	Ross	11-15-13W	D	50	20	Lansing	3,300	12	2	0	0	0	1958	2	0	0	0	Irreg.	0	190	Prod		U	S Gas	43	138,700	41,208	382,700	65,208	
Trapp	Skelly Oil Company	Anderson-Rein Unit	41956	2805	M.E. Anderson, George Rein	7,8-15-13W	W	240	240	Lansing	2,900	50	21	0	0	0	1961	2	0	0	0	Irreg.	*	240	Prod		U	S Gas	37	175,216	16,536	383,008	17,819	*Vacuum
Trapp	Sohio Petroleum Company	N. E. Trapp Flood	62007	7565	Amschutz	10-15-13W	W	100	0	Lans-KC	3,050	18	4	0	0	0	1960	3	0	0	0	Irreg.	820	83	Prod + Dakota	450	T	S Gas	40	90,758	8,081	721,096	17,040	
Trapp	Sunray DX Oil Company	Trapp Pool Lansing	54532	5494	K. Rude, H.J. Sellens, K.R. Sellens	25,26,35,36-15-13W	W	70	80	Lansing	3,110	19	5	0	0	0	1957	1	0	0	0	Irreg.	0	559		---	U	S Gas	39	203,914	15,596	877,316	33,389	
Total Russell County								18,077	4,035				673	24	31	4		308	9	16	2									25,348,008	2,600,951	86,483,245	10,048,322	
SALINE COUNTY																																	
Lindsborg	Ray Perera, et al	Robinson	72694	10664	Johnson, Martinson, Robinson	32-15-3W	P	40	200	Maquo	3,393	4	5	0	0	0	1963	1	0	0	0	Perip.	---	340	Prod + Surface		M	Grav	35	30,000	0	30,000	0	
Salina	Tom Brown Construction, Inc.	Salina South Pool	---	9740	Muir	13-15-3W	D	320	---	Maquo Dol	3,264	15	2	1	0	0	1962	1	0	0	0	Irreg.	0	61	Prod		U	Wat	35	22,325	1,680	57,635	1,680	
Salina	Natural Gas and Oil Co.	Prescott Unit	56712	---	Prescott, Seitz	17-14-2W	D	120	0	Viola	3,225	10	4	0	0	0	1958	1	0	0	0	Irreg.	0	70	Prod		U	Wat	33	24,944	1,568	134,912	26,116	
Salina	Solar Oil Company	Swigart Lease	---	9817	Clements, Riddle, Shoffner, Swigart	5,6,7,8-15-2W	W	40	140	Maquo	3,225	15	4	0	0	0	1962	1	0	0	0	Irreg.	*	536	Prod		U	Wat	36	195,445	10,762	223,350	11,422	*Vacuum
Smolan	Colorado Oil & Gas Corp.	Smolan Field	61398	7405	Burk	36-15-4W	W	160	0	Maquo	3,436	6	6	1	0	0	1961	1	0	0	0	Irreg.	0	904	Prod + "McPherson"	265	T	Inact Wat	36	329,825	1,410	745,532	3,235	
Smolan	Ray Perera, et al	Ostenberg Lease	58307	6621	Ostenberg	30-15-3W	P	120	0	Maquo	3,410	5	2	1	0	0	1958	2	0	0	0	Perip.	x	250	Prod		T	Wat	36	162,000	3,000	712,000	3,000	
Smolan	Socony Mobil Oil Co., Inc.	Smolan Field	59231*	6896*	Frost, Gustafson, Johnson, Larson "B", Oberg	30-15-3W;25,35-15-4W	W	1,234	0	Maquo	3,420	10	30	2	0	0	1957	5	3	0	0	Perip.	**	444	Prod + "McPherson"	200	U	Wat	37	810,000	44,000	4,443,000	381,000	*59232, 6897; 66929, 8924; 71030, 10098; 71031, 10099 **Vacuum
Total Saline County								2,034	340				53	5	0	0		12	3	0	0									1,574,539	62,420	6,346,429	426,453	
SEDGWICK COUNTY																																	
Gladys	Kewanee Oil Company	Gladys Unit	64693	8324	Tracts #1 through 61	29,30,31,32-28-1E	W	1,611	0	Missi	3,200	10*	138	10	0	0	1961	44	0	0	0	Perip.	1,100	602	Sh Grav	50	F	S Gas	44	9,663,751	698,457	22,217,224	1,241,973	*10-78 ft
Gladys	Kewanee Oil Company	East Gladys Unit	64694	8325	Blood, Parton, Tucker	29-28-1E	W	230	0	Missi	3,200	10*	16	1	0	0	1961	3	0	0	0	Perip.	1,100	234	Sh Grav	50	F	S Gas	44	258,070	80,936	897,444	152,787	*10-40 ft
Gladys	Kewanee Oil Company	Wards 4th Addit.	64695	8326	Wards 4th Addition	32-28-1E	W	56	0	Missi	3,200	10*	3	2	0	0	1961	1	0	0	0	Perip.	990	1,764	Sh Grav	50	F	S Gas	44	643,745	14,392	1,383,798	35,217	*10-50 ft
Robbins	Arthur Horgenstern Oil Operations	Robbins Field Waterflood	56245	---	Brown, Cook, Heath, Nolan, Yaw	20-28-1E	D	190	0	Miss Chat	3,080	40	5	0	0	0	1947	5	0	0	0	Irreg.	0	250	Prod		U	S Gas	43	456,000	22,000	x	x	
Robbins	Sooner Pipe & Supply Corp.	Henry Robbins WFP #2	---	---	Robbins	20-28-1E	W	80	0	Missi	3,100	20	3	0	0	0	1945	2	1	0	1	Irreg.	0	150	Prod		T	Wat	40	182,500	4,070	2,333,700	150,258	
Total Sedgwick County								2,167	0	Missi			165	13	0	0		55	1	0	1									11,202,066	819,855	26,832,166	1,580,235	
SHERIDAN COUNTY																																	
Adell	Continental Oil Company	Adell Lans-KC Unit	66906	8906	Adell Lans-KC Unit	1,2,3,11,12-6-27W	W	586	0	Lans-KC	3,500	23	35	1	0	0	1962	9	2	0	0	Perip.	185	275	Cedar Hills	1,875	F	S Gas	39	1,557,585	175,783	2,818,458	231,750	
Adell	Imperial Oil of Kansas, Inc.	Adell Lans-KC Unit	70236	9881	Cramer "A", Muir "A", Randolph & Schoen	7,18-6-26W;12,13-6-27W	W	720	0	Lans-KC	3,530	12	11	0	0	0	1963	2	0	0	0	Line	600	226	Prod + Cedar Hills	1,900	T	S Gas	38	149,322	13,990	149,322	13,990	
George	M. J. Bove Oil Operations	Richards	72246	10486	Richards	17-9-26W	W	160	0	Lans-KC	3,850	200	3	0	0	0	1963	1	0	1	0	Irreg.	200	180	Cedar Hills	1,607	T	Grav	34	10,980	0	10,980	0	
Studley	Michigan Oil Company	Pratt Lease	---	---	Pratt	15,22,23-8-26W	W	320	0	Lans-KC	3,700	7	5	1	0	0	1958	2	0	0	0	Line	550	350	Cedar Hills	1,750	U	S Gas + Wat	37	42,000	16,640	564,090	192,494	
Total Sheridan County								1,786	0				54	2	0	0		14	2	1	0									1,759,887	206,413	3,542,760	438,234	
STAFFORD COUNTY																																	
Brenn	Sterling Drilling Company	Gray	70715	10008	Gray	18-23-13W	P	160	0	Lans-KC	3,620	16	2	0	0	0	1963	1	0	0	0	Irreg.	800*	150**	Prod + Sh Grav	46	M	S Gas	31	10,000***	0	10,000***	0	*1,500; **300; ***15,490 (info. from duplicate questionnaire)
Chase-Silica	L. K. Perrish	Spacil Lease	69273	9481	Spacil	4-21-12W	D	160	0	Arbuc	3,417	13	2	0	0	0	1962	1	0	0	0	Irreg.	0	---	Prod		U	Wat	37	45,625	392	45,625	3,252	
Crissman	Natural Gas & Oil Co.	Crissman Unit	59367	---	Beaver, W.S. Crissman	16-23-14W	D	200	0	Lans-KC	3,650	15	4	1	0	0	1959	1	0	0	0	Irreg.	0	220	Prod		U	Wat	30	80,885	3,387	397,885	25,387	
Curtis	National Cooperative Refinery Association	Curtis A-B Unit	69303	9499	Curtis "A", "B"	6-22-13W	W	30	0	Lansing	3,426	40	2	1	0	1	1962	1	0	0	0	Irreg.	700	814	Prod		U	S Gas	30	296,988	0	418,841	0	
Dell	Colorado Oil & Gas Corp.	Parish Lease	69480	9547	Parish	6-21-13W	P	20	0	Lans-KC	3,330	200	1	0	0	0	1962	1	0	0	0	Irreg.	0	15	Prod		U	S Gas	29	5,561	950	6,472	950	
Dell East	Petroleum, Inc.	Dell East	64124	8091	Fischer "A", Harter "A"	8-21-13W	W	20	0	Lans-KC	3,317	50	1	---	0	2	1960	1	0	0	1	Irreg.	600	100	Quaternary Grav	x	M	S Gas	28	12,750	223	69,350	4,188	
Gates	E. K. Edmiston	Drach-Sittner	59076	---	Drach, Sittner	11-22-13W	W	320	0	Lans-KC	3,380	30*	3	0	0	1	1959	1	0	0	0	Perip.	0	200	Prod + Surface	x	M	S Gas	20	35,000	0	100,000	5,000	*From 6 pay zones
Gates	Socony Mobil Oil Company, Inc.	Mattie Gates "B"	58851	6782	Mattie Gates "B"	35-21-13W	W	25	0	Arbuc	3,670	23	0	4	0	0	1959	1	0	0	0	Perip.	*	200	Prod		U	S Gas	36	73,000	0	329,000	0	*Vacuum
Hazel	Petroleum, Inc.	Hazel South Unit	69114	9442	Essmiller, Hufford "A", Keller "A", P.L. Keenan "A"	28,29-21-13W	W	480	0	Lans-KC	3,374	48*	7	1	0	0	1962	3	0	0	0	Perip.	477	169	Prod + Meade	10	F	S Gas	29	185,083	8,782	312,257	13,155	*Flooded interval
Hickman	Kaiser-Francis	Pyle & Gates "B"	71768	---	Pyle and Gates "B"	27-21-14W	D	240	---	Lans-KC	3,412	200	6	0	0	0	1963	1	0	0	0	Irreg.	*	70	Prod		U	Gas Exp	29	10,780	0	10,780	0	*Gravity
Jordan	Cities Service Oil Co.	Jordan	52587	5070*	Jordan, Neeland "A", "B", Stimatze	15,16-25-14W	D**	95	13	Lans-KC	3,630	250	10	0	0	0	1956	1	0	0	0	Irreg.	0	530	Prod		U	S Gas	33	193,446	42,313	1,167,735	152,888	*10626; **salt water disposal and waterflood
Koelsch	Arthur Morgenstern Oil Operations	Koelsch Lease	x	x	Koelsch	24-24-14W	W	240	0	KC Group	3,760	120	7	1	0	0	1961	1	0	0	0	Irreg.	50	500	Surface	60	F	S Gas	34	20,000	0	20,000	0	
Lincoln	Petroleum, Inc.	Lincoln	70088*	9804*	Lincoln	29-21-14W	W	160	0	Lans-KC	3,420	230	2	0	0	0	1954	1	0	0	0	Line	**	374	Prod + Meade	13	M	S Gas	32	136,373	14,144	249,404	135,618	*Was 46256, 3776 on original inj. well; **vacuum
Max	Pan American Petroleum Corporation	F. Hitz "B" Waterflood	---	---	F. Hitz "B"	2-22-12W	W	80	0	Lansing	3,250	5	1	0	0	0	1963	1	0	0	0	Irreg.	0	910	Prod		U	S Gas	39	33,231	1,091	33,231	1,591	
Max	Pan American Petroleum Corporation	F. H. Mellies Waterflood	55155	---	F.H. Mellies	1-22-12W	W	---	---	Lansing	3,000	22	1	0	0	0	1957	1	0	0	0	Irreg.	0	145	Prod		U	S Gas	35	52,970	1,441	431,236	42,934	
Merle	GMW, Inc.	Williams WF Unit	---	8551	Kuske, Williams	31,32-23-13W	P	220	160	KC Group	3,672	12	6	0	0	0	x	2	0	0	0	Perip.	1,400	350	Fresh	90	M	x	35	255,500	3,413	422,840	0	*8062; **pumping units; This property sold 6/1/63, report covers period up to this date.
Merle	The Lotus Oil Company	Williams	---	8551*	Williams	32-23-13W	W	160	---	Lans-KC	3,666	9	5	2	0	0	1961	2	0	0	0	Irreg.	0	100	Meade	60	M	**	32	30,137	x	187,759	x	* + limited water drive
Mueller	R. H. Siegfried, Inc.	Welsh "A"	56597	---	J. Welsh "A"	18-21-12W	P	50	40	Arbuc	3,570	14	4	0	0	0	1958	1	0	0	0	Irreg.	0	111	Prod		U	S Gas*	39	40,515	4,971	365,915	31,471	
Oscar South	Petroleum, Inc.	Oscar South	56172	5948	Smith "J"	26-22-14W	*	80	0	Lans-KC	3,456	225	2	1	0	0	1957	1	0	0	0	Irreg.	**	12	Prod		T	S Gas	32	4,986	4,386	21,556	38,959	
Oscar West	Cities Service Oil Co.	Oscar West Unit	57331	6336	Oscar West Unit	15,16,21,22-22-14W	W	446	0	Lans-KC	3,600	7	14	3	0	0	1958	6	0	0	0	Perip.	650	210	Prod + Dakota	330	M	S Gas	33	460,704	138,126	2,297,716	513,802	*Disposal; **vacuum
Pleasant Grove	Shelley Miller Drilling, Inc.	Spangenberg Unit	59297	6910	Spangenberg	26-22-12W	D	20	0	Lans-KC	3,470	15	2	0	---	0	1959	3	0	0	0	Perip.	*	150	Fresh	30**	F	S Gas	33	54,750	3,937	269,100	56,561	*Gravity; **to 50 ft
Pundsack	Skelly Oil Company	Herman Schulz Waterflood	62766	8006	Herman Schulz	19-21-13W	W	60	0	Lansing	3,502	12	3	0	0	0	1960	1	0	0	0	Irreg.	990	288	Sh Grav	72	F	S Gas	30	105,040	8,632	297,838	28,750	
Rattlesnake Southeast	Natural Gas & Oil Co.	McConnaughhay Unit	64459	---	Harrison, McConnaughhay	18-24-13W;13-24-14W	D	60	0	Lans-KC	3,700	10	2	0	0	0	1961	1	0	0	0	Irreg.	0	60	Prod		U	Wat	29	21,629	5,871	41,220	14,501	
Richardson	Pan American Petroleum Corporation	Richardson Pilot Waterflood	---	10605	V. Komarek	30-22-11W	*	10	660	Arbuc	3,525	23	3	0	0	0	1963	1	0	1	0	Irreg.	**	4,447	Prod		U	Wat	30	40,025	0	40,025	0	*Pilot; **27 vac.
Shaeffer	Kaiser-Francis	Willcut "B"	66482	---	Willcut "A", "B"	4-21-13W	D	160	---	Lans-KC	3,270	200	1	0	0	0	1961	1	0	0	0	Irreg.	*	20	Prod		U	Gas Exp	38	7,000	100	16,000	175	*Gravity
Smallwood	Petroleum, Inc.	Smallwood Unit	70023	9768	Curtis "C", Strobel	2,3-22-14W	W	200	0	Lans-KC	3,440	227	3	0	0	0	1963	1	0	0	0	Line	200	226	Prod + Meade	16	F	S Gas	31	68,822	6,234	68,822	6,234	
Smallwood	Sunray DX Oil Company	Keenan-Strobel	54962	5608	Keenan-Strobel	2-22-14W	W	80	0	Lansing	3,550	6	4	0	0	0	1957	1	0	0	0	Irreg.	875	136			U	S Gas	34	49,708	13,609	339,528	118,986	
Strobel	Petroleum, Inc.	Strobel	69862	9723	Strobel "A", "B"	9-22-14W	*	240	0	Lans-KC	3,466	229	1	0	0	0	1962	1	0	0	0	Irreg.	0	---	Prod		U	S Gas	29	56,730	260	58,230	260	*Disposal
Total Stafford County								4,016	873				99	14	0	4		38	0	1	1									2,387,228	262,762	8,029,365	1,193,662	
SUMNER COUNTY																																	
Bellman	Sunray DX Oil Company	Cox	47902	4174	Cox	15-30-1E	D	240	0	Simp	3,796	6	2	0	0	0	1955	1	0	0	0	Irreg.	*	60	Prod		U	S Gas	49	21,000	19,151	60,435	156,200	*Gravity
Fall Creek	Texaco, Inc.	Fall Creek Unit	53402	5282		3,4,9,10-35-3W	W	510	---	Simp	4,750	26	4	---	---	---	1956	5	---	---	---	Perip.	0	600	Prod + Staln	---	U	Wat	46	1,050,520	0	3,899,503	0	
Murphy	Albert Brauer	Cresent Unit	---	10223		11,12,13,14-35-2E	W	542	0	Bartl	3,475	21	34	0	1	0	1963	14	0	1	0	Perip.	*	240	Staln + Layton	2,400	T	Gas Exp	40	400,730	0	400,730	0	
Murphy	CRA, Inc.	Vernon North Unit	62826	7744	Callender, Callender "B", Kemp, McClasky, Waggoner	8,9,16,17-35-2E	W	288	0	Missi Dol	3,392	11	5	3	0	0	1961	3	0	0	0	Perip.	0	70	Staln	2,293	T	S Gas	40	76,925	4,042	302,994	6,074	*Vacuum
Murphy	James A. Lewis Engineering, Inc.	Hilltop Field	64699	8330	Airport (Parker), Airport (Wunderlich), Baird, Hansen, Higbee et al, Holloway	25,26,35,36-34-2E	W	700	0	Bartl	3,485	16	33	0	0	0	1962	33	0	0	0	Modified Line + 5-spot	0	300	Prod + Staln + Layton	2,500 2,800	U	S Gas*	40	2,910,812	265,891	5,185,887	317,627	*And/or modified line drive
Padgett	Sterling Drilling Co.	Thiessen	49950	4601	Thiessen	22-34-2E	D	70	0	Missi	3,458	30	2	0	0	0	1963	1	0	0	0	Irreg.	0	45	Prod		U	S Gas	40	10,800	0	10,800	0	
Wellington	CRA, Inc.	Wellington Unit	45087	3396	Barlow, Barlow "A", Barlow "B", Beam, Caples, Carr, Cole, Curtis, Deturk, Deturk "A" Erker, Frankum, Frankum A, Gaskill, Hennigh*	20,28,29,32,33-31-1W; 4,5,6,7,8,9-32-1W	W	2,240	0	Missi Dol	3,650	20	85	5	0	0	1953	39	5	0	1	Modified Line	150	347	Prod + Topeka + Staln	1,950 2,650	T	S Gas	44	4,945,096	605,592	30,696,266	4,333,241	*Kamas, Ludwig, McDowell, McKee, Manahan, Markley, Miller, Moore, Murphy, Neel, Nelson, Peasel, Riddell, Rothrock, Rothrock "A", Stone, White
Wellington Northeast	Aladdin Petroleum Corp.	Miller	---	5718		23-31-1W	P	160	0	Missi	3,640	18	5	0	0	0	1957	2	0	0	0	Irreg.	0	270	Prod		U	*	40	209,000	19,200	854,600	126,700	
Wellington Northeast	Aladdin Petroleum Corp.	Voils	---	6242	Voils	27-31-1W	P	160	0	Missi	3,650	20	2	0	0	0	1958	1	0	0	0	Irreg.	150	160	Prod		U	*	39	56,700	6,200	118,200	41,300	*Pumping still primary method
Wellington Northeast	Skelly Oil Company	G. A. Spitler Waterflood	62743	7693	G.A. Spitler	26-31-1W	W	125	0	Missi Dol	3,655	14	6	0	0	0	1960	2	0	0	0	Irreg.	100	310	Prod + Sh Sd	50	M	S Gas	42	226,789	9,949	715,444	42,484	*Pumping still primary method
Zyba Southwest	Petroleum Mgmt., Inc.	Chitwood-Snyder	63556	7955	Chitwood, Snyder, Snyder "A"	15-30-1W	W	160	0	Simp	3,880	---	7	1	0	0	1962	2	0	0	0	Irreg.	*	145	Prod		U	Wat	44	104,760	11,050	229,760	40,800	*Vacuum
Total Sumner County								5,195

Table 1
Kansas Geological Survey

FIELD NAME	OPERATOR	PROJECT OR UNIT NAME	ORDER DOCKET NUMBERS		NAME OF LEASE(S)	LEGAL DESCRIPTION	TYPE OF PROJECT	NUMBER OF ACRES FLOODED		PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Ft)	NO. OF OIL WELLS				DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS				WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls per well per day)	WATER SOURCE	DEPTH TO WATER FORMATION (Ft)	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1963 (Bbls)		TO END OF 1963 (CUMULATIVE, Bbls)		ADDITIONAL INFORMATION
			Comm. No.	Consv. No.				Current	Add.				Active	Inact.	Drld.	Abd.		Active	Inact.	Drld.	Abd.									WATER INJECTED	OIL PRODUCED	WATER INJECTED	OIL PRODUCED	
WILSON Cont.																																	
Benedict	C. F. Jones Oil Company	Roberts A & C Lease	---	10348	Miller, Neff, Roberts, Scott, Wilson	10,11-28-15E	*	100	50	Squirrel**	938	10	6	1	1	0	1963	6	1	1	0	Irreg. + 5-spot	250	35	Prod + Burgess + Missi	1,104	T	Wat	32	16,000	0	16,000	2,454	*W + P; **or Cattleman
Benedict	Shamrock Reconditioners	Morton Lease	61731	7467	Morton	24-28-15E	P	160	160	Bartl	935	12	4	1	0	1	1959	3	0	0	3	Irreg.	400	50	?Lime	450	U	Grav	32	27,000	480	189,000	12,050	This project abandoned 6/63
Buffalo and Vilas	Walter H. Walne, Jr.	Fisher Project	69314	9507	Larson, Miley, Nelson, Sutterfield	13,24-27-16E	W	35	30	Bartl	1,000	10	8	0	2	2	1962	7	0	0	0	Line	500	60	Big Salt	1,100	T	S Gas	30	151,694	6,163	180,501	7,798	
Fredonia	Reed & Carroll Oil & Gas Producers	Stryker-Holdeman	70560	9971	Holdeman, Stryker	27,34-28-14E	W	40	600	New Albany	260	25	12	0	6	0	1963	6	6	0	0	5-spot	5	41	KC Group	450	T	S Gas	26	50,000	0	50,000	0	
Neodesha	Fred E. Wood & Associates	Neodesha Unit #1	---	9937	Unit #1	20,21,28,29,32,33-30-16E	W	135	900	?lst Neodesha	800	15	20	0	11	0	1961	20	0	7	0	5-spot	500	70	Salt Sand	900	T	S Gas	40	400,000	47,000	544,000	65,000	
Neodesha	Fred E. Wood & Associates	Neodesha Unit #2	---	9559	Unit #2	7-30-16E	W	8	1,000	?lst Neodesha	900	20	1	0	1	0	1963	4	0	0	0	5-spot	350	80	Salt Sand	1,000	T	S Gas	38	100,000	1,000	100,000	1,000	
Neodesha	Fred E. Wood & Associates	Neodesha Unit #3	---	10231	Unit #3	21,22,27,28-30-16E	W	8	300	?lst Neodesha	750	12	0	0	0	0	1964	0	0	4	0	5-spot	0	0	River Gravel	60	F	S Gas	40	0	0	0	0	
Neodesha	Fred E. Wood & Associates	Neodesha Unit #4	---	10232	Unit #4	13,18,19,24-30-16E	W	8	400	?lst Neodesha	850	15	1	0	0	0	1963	4	0	4	0	5-spot	500	50	River Gravel	60	F	S Gas	40	2,000	200	20,000	200	
Neodesha	Fred E. Wood & Associates		---	---				---	---																								
Neodesha East	Crawford Drilling & Exploration Co., Inc.		---	5298	Dickans, Swallow	15-30-17E	P	---	---	Bartl	900	10	4	0	0	0	1963	2	0	0	0	Line	200	25	Prod	700	U	Grav	27	10,000	0	10,000	0	
Total Wilson County								1,208	3,619				201	249	17	51		143	31	44	3									1,957,690	207,865	8,126,892	792,180	
WOODSON COUNTY																																	
Big Sandy	Woodson Pipe Line & Producing Company	Big Sandy	56532	6103	Cobble, Duncan, Lauber, Louk, Pendley, Schafer, Scott	22,23-26-14E	P	40	200	Bartl	1,200*	20**	23	11	0	0	1957	4	1	0	0	5-spot	375	74	Prod + Cherokee	1,100	T	Grav	21	108,412	34,170	474,412	252,170	*To 1,300 ft; **to 50 ft
Humboldt-Chanute	Ayjay Oil Co., Ltd.	Willis Group	67515	9075	Bennett, Moon, Orth, Pribbernow, Reno, Tebbens, Williams	20,27,28-25-17E	W	1,750	0	Bartl	850	15	66	x	0	0	x	28	0	x	x	5-spot	x	x	Prod		T	S Gas	31	177,851	22,820	x	x	
Perry-Halligan	Layton Oil Company		67151	8990		17,18,19,20,29,30-26-17E	W	330	---	Squirrel	820	6*	67	32	---	---	1960	53	12	---	---	5-spot	450	35	Arbuc	1,592	U	S Gas	--	469,514	36,467	1,793,860	99,482	*To 20 ft
Quincy	Aladdin Petroleum Corp.	Fuhlhage	---	5245	Fuhlhage	27-25-14E	P	320	0	Bartl	1,440	30	5	0	0	0	1956	2	0	0	0	Irreg.	250	380	Prod		U	*	38	27,900	1,200	228,400	11,100	*Pumping still primary method
Quincy	Bird - Hanley & Sheedy	Batesville	24829	727	Enloe, Lee, Tipton, Etc.	24-25-13E;19,20,21,28, 29,30-25-14E	W	650	50	Bartl	1,450	30	46	10	0	0	1942	38	10	1	1	5-spot	280	82	Prod + KC Group	670	T	S Gas	40	1,132,714	71,903	20,228,276	2,724,760	
Vernon	Brazos Oil & Gas Company*	Vernon Field	---	6887	Alexander, Alexander "A", "B", Butler, Riley	35-23-16E;2-24-16E	W	10	100	Squirrel	990	12	8	0	0	0	1963	6	0	6	0	5-spot	370	55	KC Group	400	T	S Gas	26	21,384	0	21,384	0	*Division of The Dow Chemical Company
Vernon	Burton E. Phillips	Herrick	---	9142	Herrick	4-24-16E	F	8	152	Squirrel	1,050	10	9	0	1	0	1962	1	0	0	0	Inv. 7-spot	250	0*				S Gas**	25	0***	500	0***	800	*1,500 cu ft sir; **crude oil expansion; ***500 M cu ft annual, 950 M cu ft cumulative
Vernon	R. F. Schoonover	Keske-Falcon	72456	10577	Keske	34-23-16E	*	40	40	Squirrel	950	20	8	0	0	0	1963	3	0	2	0	5-spot	170	60	KC Group	400	U	Grav	44	10,000	0	10,000	0	*W + P
Vernon	Shira Drilling Contractors	Ross Lease	---	8951	Ross	27-23-16E	*	40	0	Squirrel	1,068	19	1	1	0	1	1961	1	0	0	0	Irreg.	100	50	Prod		U		27	18,250	0	39,750	0	*Repressuring for secondary recovery
Virgil North	Barnett Oil Company	Bahr Lease	---	7949	Bahr	23-23-13E	D	40	40	Viola	2,123	6	3	0	0	0	1960	1	0	0	0	Irreg.	0	x	Prod		U	Wat	32	x	x	x	x	
Winterschied	Barbara Oil Company		27366	1054	J.W. Maclaskey	29-23-14E	D	160	0	Missi	1,680	15	14	0	0	0	1944	1	0	0	0	5-spot	0	210	Prod		T	Wat	37	x	2,410	x	x	
Winterschied	French & Aikman	F & A	62437	7898	Arnold	32-23-14E	W	80	80	Missi	1,700	7	4	0	0	0	-----	1	0	0	0	Line	50	---	Prod		T	Wat	38	x	3,547	x	x	
Winterschied	French Oil Company	Dewey	20551	416	Dewey	32-23-14E	W	120	40	Missi	1,700	11	7	0	0	x	x	1	0	0	0	Line	150	x	Prod		T	Wat	38	x	25,345	x	x	*55145, 5662
Winterschied	French Oil Company	Headley	46729*	3902*	Headley	29-23-14E	W	180	0	Missi	1,700	12	18	0	1	1	1954	2	0	0	0	Line	200	x	Prod		T	Wat	38	x	1,825	x	x	
Winterschied	French Oil Company	Otto	55125	5835	E. Otto, N. Peek	21-23-14E	W	80	0	Missi	1,700	11	3	0	0	0	x	1	0	0	0	Line	150	x	Prod		T	Wat	38	x	7,001	x	x	
Winterschied	French Oil Company	Peek	55126	5646	South Peek	20-23-14E	W	160	0	Missi	1,700	12	9	0	0	0	x	1	0	0	0	Line	180	x	Prod		T	Wat	38	x	6,609	x	x	
Winterschied	French & Winterscheid, Inc.	Smith-Jobe, Estes	27367	1055	Smith-Jobe, Estes	7-24-14E	W	120	40	Missi	1,700	11	9	0	0	0	x	2	0	0	0	Line	150	x			T	Wat	38	x	3,249	x	x	
Winterschied	French & Winterscheid, Inc.		---	3892	Winterscheid	7-24-14E	W	80	0	Missi	1,700	7	7	0	0	0	-----	---	0	0	0	Line	60	100	Prod		T	Wat	36	x	3,249	x	x	
Winterschied	John L. Haas	Colt	---	6177	Mac Colt, Edwards, Massey	36-23-14E	D	---	---	Missi	1,650	15	---	---	x	x	-----	---	---	---	---		---	---		---	---	*	40	10,950	---	10,950	---	*Primary
Winterschied	John L. Haas	Funk	---	6251	Funk, Weissbecki	22-23-14E	D	---	---	Missi	1,630	15	---	---	---	---	-----	---	---	---	---		---	---		---	---	*	40	9,000	---	9,000	---	*Primary
Winterschied	Pure Oil Company	W. P. Headley	71561	---	W.P. Headley	32,33-23-14E	W	480	940	Missi Dol	1,600	15	18	2	9	0	1963	8	0	8	0	5-spot	780	215	Arbuc	2,050	T	S Gas	39	381,556	0	381,556	0	*Vacuum
Winterschied	Sinclair Oil & Gas Co.	Winterscheid Water Flood	---	7103	H.G. Collins, W.P. Headley, J.W. MacClaskey	29,30,32-23-14E	W	480	80	Miss Chat	1,700	20	37	0	0	0	1960	10	0	3	0	5-spot	*	140	Dougl	700	U	S Gas + Wat	42	504,896	78,101	1,427,711	168,610	*Vacuum
Winterschied	Vannocker Oil Company		---	---	Owens, Rich "A", Vostrez, Weide	23,24-23-14E;6-24-15E	D	240	0	Missi	1,600	15	1	0	0	0	1963	1	0	0	0	Irreg.	0	20	Prod		M	Grav	39	1,200	0	1,200	0	Information entered alphabetically by lease name
								160	0				3	0	0	0	1963	1	0	0	0			30						3,600	240	3,600	240	
								320	0				6	0	0	0	1958	1	0	0	0			50						14,400	0	86,400	0	
								240	160				2	0	0	0	1958	1	0	0	0			40						10,800	0	72,000	0	
Winterschied																											---	*	32	---	10,000	---	10,000	*Primary
Wissman	John L. Haas		---	8422	Switzer	3-24-15E	D	---	---	Missi	1,500	12	---	---	---	---	-----	---	---	---	---		---	---		---	---	---	31	42,021	3,632	626,121*	93,941	*2,600 M cu ft cumulative gas or air injected
Yates Center	Bird - Hanley & Sheedy	Yates Center	30714	1474	Aetna, Etc.	22,27,28-25-15E	W	200	50	Missi	1,500	5	6	1	0	0	1946	4	0	1	0	5-spot	140	29	Prod + KC Group	550	U-T	Wat	31					
Total Woodson County								6,328	1,972				380	58	11	2		172	23	21	1									3,021,098	322,646	25,414,620	3,361,103	

SYMBOLS

* = Additional information (**, ***, ****; other information--same project)
+ = Symbol meaning and
0 = No water or gas injected; no oil, water or gas produced
x = No records of injection and/or production data available
--- = No answers

TYPE OF SECONDARY RECOVERY EFFORT

A = Air Flood
C = Carbon Dioxide Injection
D = Dump Flood
F = Fire Flood
G = Gas
P = Pressure Maintenance
W = Active Waterflood

TYPE OF PRIMARY OIL PRODUCTION MECHANISM

S Gas = Solution Gas Drive
Gas Exp = Gas Expansion (or Gas Cap) Drive
Gas = Gas Drive
Lim Gas = Limited Gas Drive
Wat = Water Drive
Lim Wat = Limited Water Drive
Inact Wat = Inactive Water Drive
Grav = Gravity Drainage

PATTERN OF INJECTION WELLS

7-spot = 7-spot pattern
5-spot = 5-spot pattern
3-spot = 3-spot pattern
Irreg. = Irregular or random pattern
Perip. = Peripheral or perimeter pattern
Line = Line-drive pattern
Inv. = Inverted
None = None

TYPE OF INJECTED WATER

F = Fresh
U = Untreated Brine
T = Treated Brine
M = Mixture of Fresh and Brine

OIL PRODUCING FORMATIONS AND SOURCES OF INJECTION WATER

Admire	= Admire Group	Morrow	= Morrowan Series
Alluvium	= Alluvium beds	New Albany	= "New Albany sand"
Arb	= Arbuckle	None	= No Water Injected
Arbuc	= Arbuckle	Offset Injection	= Source of Water from Adjacent Waterflood
Bartl	= "Bartlesville sand"		
Basil	= "Basil sand"	Oswego	= "Oswego lime"
Big Sand	= Unnamed sand	Peacock	= "Peacock sand"
Burgess	= "Burgess sand"	Penn	= Pennsylvanian System
Burke	= "Burke sand"	Penn Congl	= "Pennsylvanian conglomerate"
Burl	= Burlingame Limestone		
Cattleman	= "Cattleman sand"	Peru	= "Peru sand"
Cedar Hills	= Cedar Hills Sandstone	Platt	= Plattsmouth Limestone
Chat	= "Chat" (Mississippian)	Pleist	= Pleistocene Gravel
Chero	= Cherokee Group	Prod	= Produced Water
Cheyenne	= Cheyenne Sandstone	Prue	= "Prue sand"
City	= Municipal Water Supply Source	Quaternary Grav	= Quaternary Gravel
Comb	= Combination	Quartzi	= "Quartzitic sand"
Congl	= "Conglomerate chert"	Reagan	= Reagan Sandstone
Dakota	= Dakota Sandstone	Redd	= "Redd sand"
Dodge	= "Dodge sand"	River Sd	= River Sand
Dougl	= Douglas Sandstone	Roubidoux	= Roubidoux Formation
El Dorado	= "El Dorado sand"	Salt Sd	= Unnamed Salt Water Sand Source
Equus	= Equus Bed Region		
Fresh	= Unnamed Fresh Water Source	Sh Grav	= Unnamed Shallow Gravel Source
Ft. Scott	= Ft. Scott Limestone		
Gorham	= "Gorham sand"	Sh Sd	= Unnamed Shallow Sand Source
Gravel	= Gravel		
Grt W	= "Granite wash"	Simp	= Simpson Sandstone
Hertha	= Hertha Limestone	Snyder	= "Snyderville sand"
Hoover	= "Hoover sand"	Squirrel	= "Squirrel sand"
Howard	= Howard Limestone	Staln	= "Stalnaker sand"
Hunton	= "Hunton lime"	Stapelton	= Stapelton Sandstone
Hunton Dol	= Hunton Dolomite	Surface	= Surface Water Source
Indian Cave	= Indian Cave Sandstone	Tarkio	= Tarkio Limestone
KC Group	= Kansas City Group City	Tertiary	= Tertiary Sandstone
Kindh	= Kinderhookian Series	Topeka	= Topeka Limestone
Lansing	= Lansing Group	Toronto	= Toronto Limestone
Lans-KC	= Lansing-Kansas	Tucker	= "Tucker sand"
Layton	= "Layton sand"	Vi	= Viola Limestone
Maquo	= Maquoketa Shale	Viola	= Viola Limestone
Maquo Dol	= "Maquoketa dolomite"	Wayside	= "Wayside sand"
Marmaton	= Marmaton Group	Weiser	= "Weiser sand"
Massey	= "Massey sand"	Wells	= Shallow Well Source
Meade	= Meade Formation	Wreford	= Wreford Limestone
Misener	= Misener Sandstone	Zeman Sd	= "Zeman sand"
Missi	= Mississippian System	400 Ft Sd	= Unnamed Sand Source at 400 ft.
Miss Chat	= "Mississippian chat"		
Miss Congl	= "Mississippian conglomerate"	420 Ft Sd	= Unnamed Sand Source at 420 ft.
Missi Dol	= "Mississippian dolomite"		

SUMMARY OF 1963 SECONDARY RECOVERY AND PRESSURE MAINTENANCE PROJECTS IN KANSAS, BY COUNTY

Counties	Oil Prod., (Mbbl)	No. Act. Oil Wells,	Current Acreage,	Water Inj., (Mbbl)	No. Act. Inject. Wells,	Wells Drld. Oil	Wells Drld. Inj.	Cumul. Wtr. Inject.,	Cumul. Oil Prod.,	Total Oil Prod., (Mbbl)
Allen	460	1,012	5,127	8,616	675	47	26	66,304	5,047	858
Allen-Anderson	92	155	289	773	96	5	20	3,371	892	--
Allen-Bourbon	4	8	275	108	15	2	0	8,327	454	--
Allen-Neosho	25	39	191	213	22	2	0	587	133	--
Anderson	311	806	3,304	5,520	707	16	7	84,649	4,901	393
Barber	34	60	2,613	4,619	21	0	0	7,145	76	995
Barton	281	164	5,985	4,635	65	1	1	16,216	1,117	8,646
Barton-Rice	26	18	370	486	7	0	0	681	36	--
Barton-Stafford	6	8	320	106	2	0	2	106	6	--
Bourbon	66	79	470	464	55	6	0	1,375	216	72
Butler	2,966	1,070	17,483	60,687	857	33	22	453,254	36,010	6,339
Butler-Cowley	12	11	239	390	8	1	0	4,380	156	--
Butler-Marion	2	3	320	8	2	x	x	40	11	--
Chase	12	7	240	97	1	0	0	398	39	72
Chautauqua	148	357	3,835	1,210	73	4	1	7,742	1,162	833
Clark	113	20	2,005	641	7	0	0	2,059	323	189
Coffey	25	43	740	27	3	1	0	27	1	99
Coffey-Woodson	30	23	220	374	17	0	0	1,541	308	--
Cowley	1,555	311	10,737	18,163	234	1	0	120,699	10,618	3,795
Crawford	32	80	385	261	92	9	10	1,270	108	63
Decatur	105	40	1,484	1,006	11	0	0	2,374	260	517
Dickinson-Marion	0	20	960	127	5	0	0	639	0	--
Douglas	--	5	--	--	--	--	--	--	--	29
Edwards	7	4	140	227	2	0	0	947	58	415
Elk	29	40	1,447	312	20	7	2	2,693	631	153
Ellis	75	68	2,000	1,395	24	1	1	3,596	267	9,495
Ellis-Rooks	65	28	230	844	12	0	0	3,425	360	--
Ellis-Russell	57	14	450	455	3	0	0	2,982	351	--
Ellsworth	31	13	384	393	6	0	0	737	97	1,572
Finney	0	17	2,240	263	3	0	0	898	0	2,046
Franklin	213	425	1,491	4,552	457	1	0	47,544	3,201	262
Graham	339	223	9,701	4,492	71	0	1	7,920	568	5,240
Graham-Trego	19	13	640	414	2	0	0	2,370	54	--
Greenwood	2,107	978	20,512	35,275	591	17	10	530,945	44,564	3,282
Harper	--	2	40	--	1	2	1	--	--	1,139
Harvey	67	68	2,084	2,876	31	16	48	2,889	72	662
Harvey-McPherson	23	10	350	767	3	0	0	2,384	279	--
Hodgeman	93	18	840	567	5	0	0	1,876	289	1,967
Kingman	43	16	773	386	7	0	0	1,978	1,180	3,958
Kingman-Pratt	60	24	1,100	2,334	22	0	0	9,976	321	--
Kingman-Sedgwick	76	30	445	2,649	19	0	0	8,738	189	--
Labette	36	101	408	866	34	5	18	3,750	330	85
Linn	24	123	305	516	110	0	1	8,309	531	52
Lyon	14	12	360	192	4	0	0	646	28	93
McPherson	240	124	4,947	6,473	54	0	0	56,421	5,808	2,664
McPherson-Rice	0	x	x	x	2	0	0	x	0	--
Marion	18	26	1,130	725	10	1	0	2,045	113	1,817
Meade	398	22	1,839	1,118	10	0	0	9,037	1,632	712
Miami	126	491	1,362	2,394	453	5	0	33,187	1,578	241
Montgomery	48	142	798	735	75	13	29	12,000	1,079	415
Neosho	213	598	2,229	3,838	287	12	12	40,892	2,779	469
Ness	28	14	340	393	4	0	0	1,719	200	1,056
Pawnee	93	57	1,932	833	16	2	0	2,514	195	1,032
Phillips	512	137	5,825	2,651	48	2	0	9,064	1,292	2,150
Pratt	671	120	3,752	4,110	33	0	0	32,710	3,673	1,398
Reno	90	43	3,120	3,994	14	0	1	22,455	2,023	975
Reno-Rice	15	10	400	104	1	0	0	257	15	--
Rice	327	171	7,560	4,462	49	5	2	18,990	1,686	5,387
Rooks	324	116	5,143	2,432	40	9	5	6,982	376	5,566
Rush	35	13	350	1,523	8	0	0	4,238	107	358
Russell	2,601	673	18,077	25,348	308	31	16	88,483	10,048	8,469
Saline	62	53	2,034	1,575	12	0	0	6,346	426	745
Sedgwick	820	165	2,167	11,202	55	0	0	26,832	1,580	2,454
Sheridan	206	54	1,786	1,760	14	0	1	3,843	438	368
Stafford	263	99	4,016	2,387	38	0	1	8,029	1,194	5,330
Sumner	941	185	5,195	10,013	103	1	1	42,475	5,064	3,002
Trego	49	25	1,380	449	8	0	0	2,690	216	1,382
Wilson	208	201	1,208	1,958	143	17	44	8,127	792	368
Woodson	323	380	6,328	3,021	172	11	21	25,415	3,361	824
Totals	18,214	10,485	187,314	261,806	6,357	286	305	1,891,216	161,119	100,905
	3,400 (Est. nonreported)									
	21,614									