DATA ON SECONDARY RECOVERY PROJECTS IN KANSAS, 1962

Kansas Secondary Recovery Committee
E. D. Goebel, and M. C. Colt, Co-Chairman

State Geological Survey

Sheet 4
Special Publication No. 6

OPERATOR	PROJECT OR UNIT	ORDER DOCKET NUMBERS: Commission Number	ORDER DOCKET NUMBERS: Conservation Number	NAME	LEGAL DESCRIPTION	SEC.	T.	R.	CO.	ABANDONED	FIELD NAME	TYPE OF PROJECT	NUMBER OF ACRES FLOODED: Current	NUMBER OF ACRES FLOODED: Add.	PRODUCING ZONE	DEPTH TO PROD. ZONE (Ft)	PROD. ZONE THICK. (Max In Ft)	NO. OF OIL WELLS: Active	NO. OF OIL WELLS: Inact.	DATE OF FIRST INJECT.	NO. OF WATER INJECT. WELLS: Active	NO. OF WATER INJECT. WELLS: Inact.	WELL PATTERN	AVER. WELL-HEAD PRESS. (Psi)	WATER INJECTED (Bbls/Day)	WATER SOURCE	DEPTH TO WATER FORMATION	TYPE OF WATER INJECTED	PRIMARY PRODUCTION MECHANISM	API GRAVITY OF PRODUCED OIL	1962 TOTAL PRODUCTION: WATER INJECTION (Mbbl)	1962 TOTAL PRODUCTION: GAS INJECTION (Mcf)	1962 TOTAL PRODUCTION: OIL PRODUCTION (Mbbl)	1962 TOTAL PRODUCTION: WATER PRODUCTION (Mbbl)	1962 TOTAL PRODUCTION: GAS PRODUCTION (Mcf)	1962 CUMULATIVE PRODUCTION: WATER INJECTION (Mbbl)	1962 CUMULATIVE PRODUCTION: GAS INJECTION (Mcf)	1962 CUMULATIVE PRODUCTION: OIL PRODUCTION (Mbbl)	1962 CUMULATIVE PRODUCTION: WATER PRODUCTION (Mbbl)	1962 CUMULATIVE PRODUCTION: GAS PRODUCTION (Mcf)
RUSSELL CONTINUED																																								
CITIES SERVICE CO.	TRAPP NORTHEAST	62366	7631	ROGG D	NE4	9	15	13W	RS		TRAPP	C	160	0	LANS-KC	3090	28	5	0	102060	3	0	IRREG.	0	463	DAKOTA + ARBUC	3334	B	S GAS	37	169	0	5	72	0	800	0	12	132	0
COLORADO OIL AND GAS	WEIMASTER LEASE	53897	5407	WEIMASTER NO. 11	*	36	14	13W	RS		HALL-GURNEY	C	20	0	TARKIO	2206	68	1	1	022657	1	0	IRREG.	500	595	RET + ARBUC	3143	B	INACT WAT	38	144	0	2	15	0	320	0	11	41	0
CONTINENTAL OIL CO.	HALL-GURNEY WFD	49935	4592	HALL-GURNEY WF	*	26	14	13W	RS		HALL-GURNEY	C	293	0	LANSI	2800	20	16	2	070156	10	1	IRREG.	700	943	SH GRAV + SH SD	44	F	S GAS	39	395	0	59	221	0	2547	0	309	974	0
CONTINENTAL OIL CO.	REIN AREA WFD	69039	9407	REIN AREA WATERFLOOD	NW4 + N2 SW4	27	14	13W	RS		HALL-GURNEY	C	160	0	LANSI	2860	13	5	0	121062	2	0	IRREG.	0	500	CHEYENNE	88	B	S GAS	39	15	0	0	1	0	15	0	0	1	0
CONTINENTAL OIL CO.	TRAPP LANSING WFD	62208	7606	TRAPP LANSING WFD	NE4	17	15	13W	RS		TRAPP	C	160	0	LANSI	2950	21	8	0	110161	5	0	IRREG.	280	1230	DAKOTA + CHEYENNE	550	B	S GAS	39	343	0	30	49	0	405	0	31	53	0
COOP. REF. ASSOC.	BERRICK	62008	7566	BERRICK LEASE	W2 NE4	6	15	13W	RS		TRAPP	P	50	20	LANS-KC	2990	20	3	1	040060	1	0	IRREG.	350	325	LANS-KC	2990	B	S GAS	37	99	0	12	99	0	199	0	23	-1	0
COOP. REF. ASSOC.	BLEHM-DONOVAN	60997	7292	DONOVAN A LEASE	*	10	15	15W	RS		DONOVAN	C	60	100	LANS-KC	3230	21	1	1	040060	1	0	IRREG.	0	50	DAKOTA	466	B	S GAS	37	26	0	0	83	0	111	0	0	-1	0
COOP. REF. ASSOC.	CLYDE	62370	7635	CLYDE-EHRLICH-PHINNEY	*	19	14	13W	RS		HALL-GURNEY	C	180	70	TARKIO	2300	10	10	2	120059	7	0	5 SPOT	900	70	DAKOTA	150	B	S GAS	38	282	0	28	82	0	653	0	87	-1	0
COOP. REF. ASSOC.	HORACE FINK	53860	5396	HORACE FINK	E2 SE4	16	14	14W	RS		HALL-GURNEY	C	280	40	LANS-KC	3070	17	7	0	120057	1	0	IRREG.	1100	460	LANS-KC	3070	B	S GAS	38	168	0	41	-1	0	602	0	146	-1	0
COOP. REF. ASSOC.	FLEGLER B	67734	9131	FLEGLER B LEASE	NW4	11	15	14W	RS		TRAPP	C	50	0	LANSI	2944	8	5	0	032662	1	0	IRREG.	800	849	ARBUC	3214	B	S GAS	38	229	0	16	54	0	229	0	16	54	0
COOP. REF. ASSOC.	FLEGLER B	53055	5183	FLEGLER B LEASE	SW4	2	15	14W	RS		TRAPP	C	60	0	TARKIO	2298	8	6	0	103156	2	0	IRREG.	700	569	ARBUC	3214	B	WAT	38	208	0	12	173	0	758	0	84	411	0
COOP. REF. ASSOC.	FLEGLER C	56388	6038	FLEGLER C LEASE	NW4	11	15	14W	RS		TRAPP	C	60	0	LANSI	3057	12	6	0	070058	1	0	IRREG.	250	847	ARBUC	3201	B	S GAS	38	309	0	12	66	0	1284	0	27	139	0
COOP. REF. ASSOC.	KRUG	67572	9108	KRUG LEASE	SE4 SE4	3	15	14W	RS		TRAPP	C	20	0	LANSI	2965	20	2	0	010762	1	0	IRREG.	360	200	ARBUC	3219	B	S GAS	36	66	0	0	8	0	66	0	0	8	0
COOP. REF. ASSOC.	MICHEL A	67735	9132	MICHEL A LEASE	SE4	2	15	14W	RS		TRAPP	C	40	20	TARKIO	2320	6	4	0	032662	1	0	IRREG.	800	280	ARBUC	3292	B	WAT	38	63	0	3	102	0	63	0	21	281	0
COOP. REF. ASSOC.	REIN A	57272	6310	REIN A LEASE	NW4	19	14	13W	RS		HALL-GURNEY	C	70	0	TARKIO	2325	11	8	0	121859	3	0	IRREG.	800	237	DAKOTA	300	B	LIM WAT	40	86	0	15	61	0	226	0	27	73	0
COOP. REF. ASSOC.	REINHARDT-BRANDENBER	47659	4105	REINHARDT-BRANDENBERG	NE4	19	14	14W	RS		GORHAM	C	240	0	LANS-KC	3055	18	4	1	080054	2	1	IRREG.	0	525	LANS-KC	3055	B	S GAS	41	382	0	23	164	0	2483	0	131	-1	0
COOP. REF. ASSOC.	REINHARDT-BRANDENBER	67586	9115	REINHARDT-BRANDENBERG	E2 SW4	20	14	14W	RS		GORHAM	C			LANS-KC	3055				080054			IRREG.			LANS-KC	3055	B	S GAS	41										
COOP. REF. ASSOC.	REINHARDT D	47659	4105	REINHARDT D LSE.	NE4	19	14	14W	RS		GORHAM	C	240	0	LANS-KC	3055	18	4	1	080054	2	1	IRREG.	0	525	LANS-KC	3055	B	S GAS	42	382	0	23	164	0	2483	0	131	-1	0
COOP. REF. ASSOC.	GEORGE SELLENS LEASE	60358	7370	GEORGE SELLENS LSE.	W2 SE4 + E2 SW4	20	15	13W	RS		TRAPP	P	160	80	LANS-KC	3040	30	6	1	070059	1	0	IRREG.	300	678	LANS-KC	3040	B	S GAS	37	248	0	18	297	0	807	0	73	-1	0
COOP. REF. ASSOC.	TRAPP NORTH COOP.	62209	7607	L. SELLENS T. SELLENS	NW4 + SE4	17	15	13W	RS		TRAPP	C	480	80	LANS-KC	3000	25	16	2	110061	14	0	5 SPOT	350	174	DAKOTA	400	B	S GAS	39	866	0	43	103	0	961	0	43	-1	0
DREILING, LEO J.	KRUG	69805	-1	KRUG	SE4	4	14	14W	RS		HALL-GURNEY	D	160	0	LANSI	3049	20	4	0	101562	1	0	IRREG.	0	250	LANSI	3049	B	*	-1	20	0	0	20	0	20	0	0	20	0
DUKE DRILLING CO.	BOXBERGER	69066	9425	BOXBERGER	NE4	21	14	14W	RS		HALL-GURNEY	D	160	0	LANSI	3127	90	10	-1	061562	1	-1	IRREG.	0	500	DAKOTA	320	M	*	37	32	0	-1	72	0	32	0	-1	72	0
DUKE DRILLING CO.	ELEGLER	639546	8065	*	W2 NW4	28	14	14W	RS		HALL-GURNEY	D	80	0	LANSI	3068	61	1	-1	091060	1	-1	IRREG.	0	310	LANSI	3068	B	*	40	66	0	6	66	0	134	0	17	134	0
DUKE DRILLING CO.	NUSS	66732	8871	NUSS-ELSASSER	SW4 + S2 NE4	32	15	14W	RS		NUSS	D	200	-1	LANSI	3120	90	5	-1	090061	1	0	IRREG.	0	200	DAKOTA	305	B	*	34	50	0	12	45	0	60	0	8	55	0
EDCO PIPE AND SUPPLY	REDETZKE AND ESFELD	-1	-1	*	*	21	15	13W	RS		TRAPP				LANS-KC + ARBUC	3322	-1	-1	-1	-1	-1	-1	*	-1	-1	*	-1	*	*	-1										
FARMER, JOHN O., CO.	REIN	69047	9415	REIN	S2 SW4	27	14	13W	RS		HALL-GURNEY	C	880	-1	LANSI	3000	90	3	0	120162	1	0	5 SPOT	250	500	DAKOTA	350	M	*	40	1	0	0	**	0	1	0	0	**	0
GORE, THEODORE	*	-1	-1	J. BOXBERGER	NE4	26	14	14W	RS		HALL-GURNEY	P	160	-1	LANS-KC	3000	100	5	0	052055	1	0	IRREG.	600	450	LANS-KC	3000	B	*	37	172	0	12	172	0	624	0	68	624	0
GORE, THEODORE	*	-1	-1	GURNEY A AND B	NW4 + SE4	23	14	14W	RS		HALL-GURNEY	P	320	-1	LANS-KC	3000	100	10	0	052055	2	0	IRREG.	600	525	LANS-KC	3000	B	*	37	198	0	27	198	0	878	0	186	878	0
GORE, THEODORE	*	-1	-1	KASTRUP	N2	15	15	12W	RS		HALL-GURNEY	P	500	-1	LANS-KC	3000	48	7	0	010158	1	0	IRREG.	600	360	LANS-KC	3000	B	*	37	131	0	21	131	0	646	0	119	646	0
GORE, THEODORE	*	-1	-1	MICHEL	SW4	36	14	14W	RS		HALL-GURNEY	P	80	-1	LANS-KC	3000	100	3	0	122061	1	0	IRREG.	600	130	LANS-KC	3000	B	*	37	45	0	7	45	0	46	0	7	46	0
GULF OIL CORP.	HERBERT A. FINK	-1	8293	HERBERT A. FINK	SE4	15	14	14W	RS		HALL-GURNEY	C	160	0	LANS-KC	3000	-1	3	0	112660	1	0	LINE	60	120	LANS-KC	3000	B	S GAS	-1	26	0	0	0	0	74	0	4	0	0
HOME-STAKE PROD. CO.	GORHAM	-1	-1	*	*	4	14	15W	RS		GORHAM	C	3000	-1	LANS-KC	3300	250	35	2	-1	29	-1	5 SPOT	-1	-1	DAKOTA	500	B	*	40	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HUMBLE OIL AND RFG.	*	61992	7553	TRAPP NORTH COOP.	*	16	15	13W	RS		TRAPP	C	295	-1	LANS-KC	3000	21	16	0	103161	13	0	IRREG.	90	1855	DAKOTA	244	B	LIM WAT	39	677	0	4	164	0	770	0	41	170	0
ISERN-WELLS	TRAPP NORTH COOP.	62211	7609	SCHULTZ	NE4	16	15	13W	RS		TRAPP	C	120	120	LANS-KC	3050	20	3	-1	110061	3	-1	5 SPOT	530	95	DAKOTA	490	F	S GAS	40	125	0	0	0	0	154	0	0	0	0
ISERN-WELLS	TRAPP NORTH COOP.	62210	7608	MEHARG	N2 SE4	16	15	13W	RS		TRAPP	C			LANS-KC	3050	20			110061			5 SPOT			DAKOTA	490	F	S GAS	40										
KEYSTONE PETRO. INC.	WEIMASTER	48966	4379	WEIMASTER	E2 SW4	25	14	13W	RS		HALL-GURNEY	P	80	80	TARKIO	2300	4	2	0	022855	1	0	2 SPOT	500	100	TARKIO	2300	B	S GAS	36	12	0	2	3	0	292	0	15	22	0
KRUEGER, HAROLD	REICH	68722	9358	REICH LEASE	SW2	28	12	15W	RS		REICH	C	20	-1	KC	2950	200	2	-1	051062	2	-1	IRREG.	0	112	KC	3000	B	*	37	24	0	2	13	0	24	0	2	13	0
NIXON, R. P.	BOND UNIT	63899	8022	BOND	SW4	23	14	13W	RS		HALL-GURNEY	C	160	160	TARKIO	2300	6	7	0	-1	3	0	IRREG.	500	400	SURFACE	90	F	S GAS	36	111	0	15	83	0	225	0	26	169	0
PAN AMERICAN OIL CO.	BOOTH WATERFLOOD	52071	-1	F. BOOTH A	W2 NW4	32	11	15W	RS		FAIRPORT	C	40	40	DODGE	2875	10	3	0	000056	1	0	IRREG.	295	580	RET + REAGAN	2800	B	S GAS	-1	212	0	10	75	0	755	0	63	293	0
PAN AMERICAN OIL CO.	KRUG WATERFLOOD	49905	-1	KRUG A B-OLSON A B C	*	27	14	14W	RS		HALL-GURNEY	C	480	0	LANSI	3000	136	17	0	000053	9	0	IRREG.	200	750	DAKOTA	660	B	S GAS	-1	274	0	77	186	0	3882	0	518	732	0
PAN AMERICAN OIL CO.	BEN REIN WATERFLOOD	66931	-1	BEN REIN	*	25	14	14W	RS		HALL-GURNEY	C	120	0	LANSI	2950	20	6	0	000057	3	0	IRREG.	200	670	LANSI	2950	B	S GAS	-1	244	0	16	172	0	1678	0	31	473	0
PAN AMERICAN OIL CO.	TRAPP NORTHEAST WFD	62168	-1	J. LETSCH A	*	9	15	13W	RS		TRAPP	C	1030	0	LANSI	3010	55	10	0	000060	9	0	IRREG.	200	-1	DAKOTA	700	B	S GAS	-1	565	0	15	60	0	1277	0	23	83	0
PAN AMERICAN OIL CO.	TRAPP NORTHEAST WFD	62169	-1	J. LETSCH B	*		15	13W	RS		TRAPP	C			LANSI	3010	55			000060			IRREG.			DAKOTA	700	B	S GAS	-1										
PAN AMERICAN OIL CO.	TRAPP NORTHEAST WFD	62206	-1	R. ROESNER	*		15	13W	RS		TRAPP	C			LANSI	3010	55			000060			IRREG.			DAKOTA	700	B	S GAS	-1										
PHILLIPS PETRO. CO.	*	-1	-1	CARROL LEASE	E2	18	14	14W	RS		GORHAM	P	70	0	LANS-KC	3100	50	5	0	120057	2	0	IRREG.	-1	1450	LANS-KC	3100	B	S GAS + WAT	40	528	0	16	528	0	2032	0	77	2032	0
PHILLIPS PETRO. CO.	*	62010	-1	ROESNER LEASE	*	9	15	13W	RS		TRAPP	C	50	0	LANS-KC	3100	-1	2	0	100060	1	0	5 SPOT	0	300	RET + DAKOTA	1200	B	S GAS	39	121	0	15	4	0	326	0	19	5	0
PHILLIPS, LEE, OIL	LETSCH	65157	8420	LETSCH	N2 NW4 + NE4	34	14	13W	RS		HALL-GURNEY	C	60	0	LANS-KC	2945	23	5	3	029061	2	0	IRREG.	80	600	SURFACE	70	F	S GAS	38	15	0	2	5	0	225	0	1	3	0
PHILLIPS, LEE, OIL	LETSCH	65749	8615	LETSCH	N2 NW4 + NE4	34	14	13W	RS		HALL-GURNEY	C	60	0	TARKIO	2240	10	2	1	060161	1	0	IRREG.	600	150	SURFACE	70	F	S GAS	38	55	0	0	4	0	85	0	0	6	0
SHIELDS OIL PROD.	DELLA GROSS A	51368	4898	GROSS A	SW SE4	5	15	13W	RS		TRAPP	D	80	0	KC	2850	90	1	0	050056	1	0	*	0	20	KC	2850	B	*	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
SHIELDS OIL PROD.	GUSTASON ESTATE	59087	6847	GUSTASON ESTATE	NW4 + W2 NE4	14	15	12W	RS		TRAPP	D	240	0	TORONTO	2840	15	2	0	070161	1	0	IRREG.	0	200	TORONTO	2840	B	S GAS	-1	72	0	10	72	0	107	0	14	107	0
SHIELDS OIL PROD.	LETSCH WATERFLOOD	69040	9408	LETSCH	*	28	14	13W	RS		HALL-GURNEY	C	400	160	KC	2800	30	16	0	FUTURE	8	0	IRREG.	400	400	DAKOTA	250	M	S GAS	-1										
SHIELDS OIL PROD.	MILLER	62832	7950	MILLER	S2 SE4	31	14	13W	RS		GORHAM	C	0	80	KC	2800	90	3	1	FUTURE	-1	-1	*	-1	-1	*	-2	*	*	-2	0	0	0	0	0	0	0	0	0	0
SHIELDS OIL PROD.	OWENS A AND B	39064	2347	OWENS A AND B	S2 NW4 + N2 SW4	34	14	13W	RS		HALL-GURNEY	D	160	0	TARKIO	2250	20	6	0	060050	1	0	IRREG.	0	40	TARKIO	2250	B	G + S GAS	-1	14	0	-1	14	0	-1	0	-1	-1	0
SHIELDS OIL PROD.	TRAPP NORTHEAST	62118	7570	A. C. ROGG A	NW4	9	15	13W	RS		TRAPP	C	160	0	KC	2800	100	8	0	100060	3	0	IRREG.	500	200	DAKOTA	300	M	S GAS	-1	147	0	23	49	0	496	0	45	78	0
SIDEY, V. D., OIL	PRESSURE MAINTENANCE	67317	-1	H. ROGG	W2 NW4	25	14	13W	RS		HALL-GURNEY	P	80	-1	TARKIO	2218	7	3	-1	120561	3	-1	*	150	70	*	-1	*	*	37	25	0	-1	25	0	25	0	-1	25	0
SITRIN, MORRIS, INC.	BOXBERGER	62334	7619	BOXBERGER LEASE	W2 SE4	26	14	14W	RS		HALL-GURNEY	P	80	-1	LANS-KC	3007	79	5	0	020360	2	0	*	-1	792	DAKOTA	1520	B	*	39	36	0	16	52	0	325	0	46	128	0
SKELLY OIL CO.	ANDERSON-REIN UNIT	41956	2805	M. ANDERSON-GEO. REIN	*	8	15	13W	RS		TRAPP	C	240	240	LANSI	2900	50	13	0	110961	2	0	IRREG.	0	399	ARBUC + RET	3220	B	S GAS	37	173	0	1	24	0	208	0	1	28	0
SKELLY OIL CO.	HALL-GURNEY AREA	55627	5781	C. COLLIVER	*	32	14	13W	RS		HALL-GURNEY	C	890	0	LANSI	2890	18	25	0	040150	11	0	IRREG.	176	2160	ARBUC + DAKOTA	2890	M	S GAS	39	649	0	61	262	0	3674	0	377	1225	0
SKELLY OIL CO.	HALL-GURNEY AREA	31565	1552	G. C. EHRLICH	*		14		RS		HALL-GURNEY	C			LANSI	2890	18			040150			IRREG.			ARBUC + DAKOTA	2890	M	S GAS	39										
SKELLY OIL CO.	HALL-GURNEY AREA	39642	2439	W. OPDYCKE	*		14		RS		HALL-GURNEY	C			LANSI	2890	18			040150			IRREG.			ARBUC + DAKOTA	2890	M	S GAS	39										
SKELLY OIL CO.	HALL-GURNEY AREA	53092	5195	BEN REIN	*		14		RS		HALL-GURNEY	C			LANSI	2890	18			040150			IRREG.			ARBUC + DAKOTA	2890	M	S GAS	39										
SKELLY OIL CO.	HALL-GURNEY TARKIO	58021	6524	E. N. HICKEY	NW4	30	14	13W	RS		HALL-GURNEY	C	320	0	TARKIO	2250	10	9	0	121859	3	0	IRREG.	500	322	LANS + DAKOTA	200	B	S GAS	38	95	0	21	76	0	320	0	33	104	0
SKELLY OIL CO.	HALL-GURNEY TARKIO	63775	8010	BEN REIN	*		14	13W	RS		HALL-GURNEY	C			TARKIO	2250				121859			IRREG.			LANS + DAKOTA	200	B	S GAS	38										
SKELLY OIL CO.	HALL-GURNEY TARKIO	58022	6525	C. M. PHINNEY	*		14	13W	RS		HALL-GURNEY	C			TARKIO	2250				121859			IRREG.			LANS + DAKOTA	200	B	S GAS	38										
SOHIO PETRO. CO.	*	49513	4490	WITT C LEASE	N2	3	14	14W	RS		HALL-GURNEY	O	320	0	LANS-KC	2985	22	2	0	000055	1	0	3 SPOT	0	145	LANS-KC	3000	B	S GAS	38	56	0	0	53	0	409	0	0	406	0
SOHIO PETRO. CO	TRAPP NORTHEAST WFD	62007	7565	ANSCHUTZ LEASE	NW4	10	15	13W	RS		TRAPP	C	100	0	LANS-KC	3050	18	4	0	101760	3	-1	IRREG.	800	480	DAKOTA	450	B	S GAS	39	156	0	6	44	0	630	0	9	89	0
STEKOLL, ABE, OIL	*	-1	-1	*	*	23	14	15W	RS		GORHAM	*	-1	-1	*	-1	-1	-1	-1	-1	-1	-1	*	-1	-1	*	-1	*	*	-1	-1	0	0	-1	0	-1	0	0	-1	0
SUNRAY D-X OIL CO.	BOXBERGER	56005	5883	BOXBERGER	W2 SE4	22	14	14W	RS		HALL-GURNEY	C	80	0	LANSI	2960	20	3	0	072656	1	0	IRREG.	540	616	LANSI	2960	B	S GAS	38	225	0	16	223	0	845	0	191	867	0
SUNRAY D-X OIL CO.	DUMLER POLCYN LSG.	64983	8387	DUMLER AND POLCYN	NW4	11	14	15W	RS		GORHAM	C	31	40	LANSI	3030	10	4	0	021561	1	0	*	0	151	ARBUC	3260	B	S GAS	37	55	0	19	87	0	106	0	21	120	0
SUNRAY D-X OIL CO.	STRECKER A AND B	58631	6727	STRECKER A AND B	NE4	25	14	14W	RS		HALL-GURNEY	C	167	0	LANSI	2920	15	5	0	090156	1	0	IRREG.	360	1252	LANSI	2920	B	S GAS	39	457	0	19	403	0	2690	0	330	2845	0
SUNRAY D-X OIL CO.	STRECKER A AND B	58631	6727	STRECKER A AND B	NE4	25	14	14W	RS		HALL-GURNEY	C	145	0	TARKIO	2257	7	7	0	032459	3	0	IRREG.	360	909	LANSI + RET	2257	B	S GAS	39	332	0	31	179	0	617	0	103	415	0
SUNRAY D-X OIL CO.	TRAPP POOL LSG.	54352	5494	RUDE AND SELLENS	SW4	25	15	13W	RS		TRAPP	C	70	80	LANSI	3110	19	5	0	072557	1	0	*	0	402	ARBUC + RET	3110	B	S GAS	39	147	0	14	297	0	673	0	18	1154	0
TEXACO, INC.	*	49670	4533	E. P. GURNEY	*	23	14	14W	RS		HALL-GURNEY	C	120	-1	LANSI	3150	-1	4	0	080055	2	0	*	500	325	LANSI	3150	*	*	37	123	0	11	368	0	708	0	63	1185	0
TEXACO, INC.	*	53187	5218	O. KAUFMAN	*	9	15	12W	RS		HALL-GURNEY	C	80	-1	LANSI	3000	-1	2	0	030057	2	0	*	100	218	LANSI	3000	B	*	38	69	0	1	73	0	767	0	5	332	0
TEXACO, INC.	*	40181	2513	P. JACOBS	*	31	12	15W	RS		FAIRPORT	C	90	-1	LANSI	3000	-1	4	0	100058	2	0	*	170	1244	LANSI	3000	B	*	33	154	0	11	118	0	585	0	38	355	0
TEXACO, INC.	*	47640	4098	D. H. BRANDENBERG	*	20	14	14W	RS		GORHAM	C	130	-1	LANSI	3100	-1	3	0	050054	3	0	*	0	813	LANSI	3100	B	*	34	226	0	11	287	0	2054	0	81	2471	0
TEXACO, INC.	*	52590	5073	G. BOXBERGER A AND B	*	22	14	14W	RS		HALL-GURNEY	C	200	-1	LANSI	3100	-1	6	1	010051	2	0	*	500	1287	LANSI	3100	B	*	37	515	0	34	207	0	1677	0	265	992	0
TEXACO, INC.	*	62834	7752	H. L. AND S. BOXBERGER	*	11	14	14W	RS		HALL-GURNEY	C	230	-1	LANSI	3050	-1	11	0	120054	7	0	*	200	1244	LANSI	3050	B	*	36	413	0	38	473	0	2821	0	294	2469	0
TEXACO, INC.	*	46240	3771	MOHL-SHAFFER	*	18	14	13W	RS		HALL-GURNEY	C	220	-1	TARKIO	2325	11	11	1	120053	12	0	5-SPOT	700	1106	TARKIO + DAKOTA	400	M	*	38	349	0	28	94	0	1659	0	168	500	0
TEXACO, INC.	*	55940	5858	D. KEIL	*	36	14	14W	RS		HALL-GURNEY	C	50	-1	LANSI	2900	-1	4	0	070058	1	0	*	490	27	LANSI + DAKOTA	370	*	*	37	9	0	0	6	0	57	0	-1	24	0
TEXACO, INC.	*	-1	-1	E. A. BORELL	*	32	14	12W	RS		HALL-GURNEY	O	40	-1	LANSI	3100	-1	2	0	010058	0	0	NONE	0	0	OFFSET INJECTION	-2	*	*	37	0	0	5	17	0	-1	0	32	62	0
TEXACO, INC.	*	52311	5016	MOHL-SHAFFER	*	18	14	13W	RS		HALL-GURNEY	C			TARKIO	2325	11			120053			5-SPOT			LANSI + DAKOTA	400	M	*	38										
SALINE																																								
COLORADO OIL AND GAS	SMOLAN FIELD	61398	7405	BURK LEASE	SW4	36	15	4W	SA		SMOLAN	C	160	0	MAQUO	3435	6	6	1	100261	1	0	IRREG.	0	934	RET + MCPHE	265	B	WAT	36	341	0	2	22	0	416	0	2	28	0
MUTUAL OIL COMPANY	*	-1	9740	MUIR LEASE	E2	13	15	3W	SA		SALINA SOUTH	P	320	0	MAQUO DOL	3264	48	3	0	092762	1	0	IRREG.	50	183	MAQUO DOL	3264	B	*	35	17	0	0	0	0	17	0	0	0	0
NATURAL GAS AND OIL	PRESCOTT UNIT	56712	6176	PRESCOTT UNIT	SW SW SW	17	14	2W	SA		SALINA	D	160	0	VI	3225	10	4	-1	040158	1	-1	*	-1	85	VI	3225	B	*	33	26	0	10	26	0	110	0	25	110	0
PERERA, RAY	OSTENBERG LEASE	58307	6631	OSTENBERG	S2 SW4 + S2 N2 SW4	30	15	3W	SA		SMOLAN	O	120	0	MAQUO	3400	5	3	-1	090058	1	0	*	0	245	MAQUO	3400	B	*	36	73	0	4	73	0	323	0	16	323	0
WILLIAMS, F. S.	*	-1	-1	JOHNSON NO. 1 A	NE SE NW	8	16	1W	SA		GYPSUM CREEK	O	300	0	MISS. CHAT	2657	31	7	2	000053	9	0	IRREG.	0	10	MISS. CHAT	2657	B	*	35	-1	0	-1	-1	0	73	0	2	800	0
SOCONY MOBIL OIL CO.	SMOLAN WATERFLOOD	59231	6896	LARSON B	*	30	15	3W	SA		SMOLAN	C	1234	0	MAQUO	3420	10	31	2	100957	5	3	PERIP.	-1	2172	RET + MCPHE	200	B	*	37	193	0	50	517	0	3633	0	337	-1	0
SOCONY MOBIL OIL CO.	SMOLAN WATERFLOOD	66929	8924	FROST	*	25	15	4W	SA		SMOLAN	C			MAQUO	3420				100957			PERIP.			RET + MCPHE	200	B	*	37										
SOCONY MOBIL OIL CO.	SMOLAN WATERFLOOD	71030	10098	GUSTAFSON	*	25	15	4W	SA		SMOLAN	C			MAQUO	3420				100957			PERIP.			RET + MCPHE	200	B	*	37										
SOCONY MOBIL OIL CO.	SMOLAN WATERFLOOD	71031	10099	OBERG	*	35	15	4W	SA		SMOLAN	C			MAQUO	3420				100957			PERIP.			RET + MCPHE	200	B	*	37										
SHERIDAN																																								
CONTINENTAL OIL CO.	ADELL LANS-KC UNIT	66906	8906	ADELL LANS-KC UNIT	*	2	6	27W	SD		ADELL	C	586	0	LANSI	3500	23	35	1	072562	9	2	PERIP.	275	4050	CEDAR HILLS	1875	B	S GAS	39	1138	0	38	263	0	1261	0	56	374	0
IMPERIAL OIL-KANS.	ADELL	70326	9881	*	NE4	13	6	27W	SD		ADELL	C	480	0	LANSI	3530	250	11	0	FUTURE	2	1	*	800	580	CEDAR HILLS	1900	B	S GAS + G	38										
HENDERSON OIL CO.	EMIGH	57037	6230	EMIGH	N2 NE4	28	6	29W	SD	A	WESSEL	*	80	-1	*	-1	-1	-1	-1	040358	-1	-1	*	-1	-1	*	-1	*	*	-1										
MICHIGAN OIL CO.	STUDLEY POOL	57284	6322	PRATT LEASE	ALL OF SECTION	23	8	26W	SD		STUDLEY	C	320	-1	LANS-KC	3700	7	5	1	030058	1	0	LINE	25	370	CEDAR HILLS	1750	B	S GAS	38	133	0	19	133	0	848	0	150	400	0
STAFFORD																																								
CITIES SERVICE CO.	JORDAN	52587	5070	JORDAN-NEELAND-STIMATZE	*	15	25	14W	SF		JORDAN	O	95	13	LANS-KC	3630	250	10	0	101356	1	0	IRREG.	0	488	LANS-KC	3630	B	S GAS	33	178	0	34	158	0	974	0	111	850	0
CITIES SERVICE CO.	OSCAR WEST UNIT	57331	6336	OSCAR WEST UNIT	*	22	22	14W	SF		OSCAR WEST	C	446	0	LANS-KC	3600	7	17	0	100958	6	0	PERIP.	600	1388	RET + DAKOTA	330	B	S GAS	33	506	0	154	208	0	1837	0	375	501	0
COLORADO OIL AND GAS	PARISH LEASE	69480	9547	PARISH LEASE	S2 SW4	6	21	13W	SF		DELL	P	20	0	LANS-KC	330	200	1	0	100162	1	0	IRREG.	0	15	LANS-KC	3329	B	S GAS	27	1	0	0	1	0	1	0	0	1	0
COOP. REF. ASSOC.	CURTIS A-B	69303	9499	CURTIS A-B UNIT	W2 NW4	6	22	13W	SF		CURTIS	C	30	0	LANSI	3426	40	3	0	071962	1	0	IRREG.	540	740	ARBUC	3740	B	S GAS	30	123	0	0	3	0	123	0	0	3	0
EDMISTON, E. K.	*	59076	6844	SITTNER	S2	11	22	13W	SF		GATES	C	320	0	LANS-KC	3700	-1	4	0	010059	1	0	*	0	200	*	-1	B	*	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
KAISER-FRANCIS	*	66482	-1	WILLCUT B	SE4	4	21	13W	SF		SHAEFFER	D	160	-1	LANS-KC	3270	200	1	1	080061	1	-1	*	-1	20	LANS-KC	3270	*	*	38	7	0	-1	-1	0	-1	0	-1	-1	0
LOTUS OIL COMPANY	WILLIAMS	-1	-1	WILLIAMS	SW4	32	23	13W	SF		MERLE	C	160	-1	LANS-KC	3666	10	5	2	060161	2	5	IRREG.	0	245	MEADE	60	M	*	32	90	0	2	1	0	158	0	3	2	0
MORGENSTERN OIL	KOELSCH	-1	-1	KOELSCH POOL	SW4	24	24	14W	SF		KOELSCH	C	240	0	KC	3760	120	7	-1	090161	7	-1	*	-1	500	SURFACE	60	F	*	34	0	0	0	-1	0	0	0	0	-1	0
NATURAL GAS AND OIL	CRISSMAN UNIT	59367	6938	CRISSMAN NO. 2	SW NE SW	16	23	14W	SF		CRISSMAN	D	200	0	LANS-KC	3650	15	5	-1	010159	1	-1	*	-1	220	LANS-KC	3650	B	*	30	80	0	7	80	0	317	0	22	317	0
NATURAL GAS AND OIL	MCCONNAUGHHAY UNIT	64459	8232	MCCONNAUGHHAY NO. 1	SW NW SW	18	24	13W	SF		RATTLESNAKE SOUTHEAST	D	60	0	LANS-KC	3700	10	3	-1	011261	1	-1	*	-1	40	RET + MISSI	3980	B	*	29	11	0	9	11	0	20	0	9	20	0
PAN AMERICAN OIL CO.	MELLIES WATERFLOOD	55155	-1	F. H. MELLIES	*	1	22	17W	SF		MAX	C	30	0	LANSI	3000	22	1	0	000057	1	0	IRREG.	0	165	RET + ARBUC	3100	B	S GAS	-1	60	0	1	18	0	378	0	21	95	0
PAN AMERICAN OIL CO.	ZENITH PEACE CREEK	63428	-1	J. KREY LEASE	NE4	14	24	11W	SF		ZENITH-PEACE CREEK	O	160	0	*	-1	-1	0	11	100058	1	0	*	40	512	MISENER	3700	B	*	-1	187	0	0	0	0	547	0	0	0	0
PARRISH, L. K.	*	-1	-1	*	NE4	4	21	12W	SF		CHASE-SILICA	D	160	-1	ARBUC	3420	-1	2	-1	110062	2	0	*	-1	-1	ARBUC	3420	B	*	43	7	0	-1	7	0	7	0	-1	7	0
PETROLEUM INC.	LANS-KC WATERFLOOD	69114	9442	HAZEL SOUTH	NE4 + N2 SE4	29	21	13W	SF		HAZEL SOUTH	C	480	-1	LANS-KC	3374	48	8	0	062862	3	0	IRREG.	420	200	SURFACE	30	F	S GAS	30	127	0	4	40	0	-1	0	4	-1	0
PETROLEUM INC.	*	70023	9768	SMALLWOOD NORTHWEST	W2 NW4 + NE4 NW4	2	22	14W	SF		SMALLWOOD NORTHWEST	C	200	-1	LANS-KC	3440	227	3	0	FUTURE	1	0	IRREG.	50	320	SURFACE	60	F	S GAS	26										
PETROLEUM INC.	*	70088	9804	LINCOLN	SE4	29	21	14W	SF		LINCOLN	C	160	-1	LANS-KC	3420	230	2	0	040054	1	1	IRREG.	0	350	RET + SURFACE	60	M	S GAS	30	16	0	10	11	0	97	0	112	-1	0
PETROLEUM INC.	*	64124	8091	DELL EAST	SW4 SW4 NE4 + NW4 NW4 SE	8	21	13W	SF		DELL EAST	C	20	-1	LANS-KC	3317	50	1	0	090660	1	0	IRREG.	600	100	RET + SURFACE	3317	M	S GAS	28	36	0	1	20	0	-1	0	4	-1	0
PETROLEUM INC.	*	56172	5948	SMITH J	N2 SE4	26	22	14W	SF		OSCAR SOUTH	*	80	-1	LANS-KC	3456	225	2	-1	110057	1	-1	IRREG.	0	12	LANS-KC	3456	B	S GAS	32	4	0	5	4	0	-1	0	35	-1	0
PETROLEUM INC.	*	69862	9723	STROBEL A AND B LEASES	NW4 + N2 SW4	9	22	14W	SF		STROBEL	*	240	-1	LANS-KC	3466	229	1	-1	122162	1	-1	IRREG.	0	150	RET + ARBUC	3861	B	S GAS	29	-1	0	-1	-1	0	-1	0	-1	-1	0
PETROLEUM MANAGEMENT	HARTER AITKEN	63694	7968	HARTER-AITKEN	S2 NW4 + SW4	30	24	13W	SF		HARTER	C	80	0	LANS-KC	3600	328	2	0	092960	1	0	IRREG.	200	56	LANS-KC	3400	M	*	29	20	0	1	17	0	47	0	1	49	0
PLAINS EXPLORATION	MCCOMB	48745	4338	MCCOMB	NE4	22	24	11W	SF		ZENITH-PEACE CREEK	P	40	-1	MISENER	3799	-1	1	-1	022155	1	-1	IRREG.	0	80	MISENER	3880	B	WAT	-1	29	0	1	9	0	330	0	3	46	0
SHELLEY-MILLER DRLG.	*	-1	-1	SPANGENBERG UNIT	S2	26	22	12W	SF		PLEASANT VALLEY	D	100	0	LANS-KC	3470	15	2	3	000059	1	0	IRREG.	-1	-1	FRESH	50	F	G	33	-1	0	9	-1	0	-1	0	53	-1	0
SKELLY OIL CO.	HERMAN SCHULTZ WFD	62766	8006	HERMAN SCHULTZ LEASE	*	19	21	13W	SF		PUNDSACK	C	60	0	LANSI	3502	121	3	0	120660	1	0	IRREG.	975	300	SH GRAV	72	F	S GAS	30	99	0	12	22	0	193	0	20	30	0
SOCONY MOBIL OIL CO.	*	58851	6782	MATTIE GATES B	SE4	35	21	13W	SF		GATES	C	247	0	ARBUC	3670	23	4	0	070159	1	0	PERIP.	-1	200	ARBUC	3887	B	*	36	73	0	2	13	0	256	0	17	70	0
STERLING DRLG. CO.	GRAY LEASE	70715	10008	GRAY NO. 3	SW4	18	23	13W	SF		BRENN	P	160	0	LANS-KC	3674	16	3	0	FUTURE	0	0	IRREG.	0	0	LANS-KC + SH GRAV	63	M	*	31	0	0	0	0	0	0	0	0	0	0
SUNRAY D-X OIL CO.	KEENAN STROBEL	54962	5608	KEENAN AND STROBEL	SW4	2	22	14W	SF		SMALLWOOD	C	80	0	LANSI	3550	6	4	-1	070257	1	0	*	875	172	LANSI	3550	B	S GAS	34	63	0	16	53	0	290	0	105	197	0
TEXACO, INC.	*	51938	4965	T. A. MALIN	*	13	23	14W	SF		BRENN	C	30	-1	LANSI	3550	-1	2	0	080058	1	0	*	0	34	LANSI + SH GRAV	70	*	*	32	38	0	0	12	0	158	0	-1	51	0
TEXACO, INC.	*	58658	6731	A. C. BOWKER	*	2	25	14W	SF		CEPHAS EAST	C	120	-1	VI	4120	19	1	1	120058	1	-1	*	0	50	LANSI	3700	*	*	38	27	0	1	2	0	99	0	-1	-1	0
SEDGWICK																																								
KEWANEE OIL CO.	*	64694	8325	EAST GLADYS UNIT	*	29	28	1E	SG		GLADYS	C	174	0	MISSI	3200	40	15	2	062961	3	0	PERIP.	1100	871	SURFACE	50	F	S GAS	44	382	0	58	230	0	641	0	72	271	0
KEWANEE OIL CO.	*	64693	8324	GLADYS UNIT	*	30	28	1E	SG		GLADYS	C	1611	0	MISSI	3200	78	146	0	021861	40	0	PERIP.	1030	21075	SURFACE	50	F	S GAS	44	7978	0	449	2111	0	12553	0	544	2873	0
KEWANEE OIL CO.	*	64695	8326	WARDS FOURTH ADDITION	*	32	28	1E	SG		GLADYS	C	56	0	MISSI	3200	50	4	1	062961	1	0	PERIP.	600	1504	SURFACE	50	F	S GAS	44	528	0	18	117	0	740	0	21	124	0
PAN AMERICAN OIL CO.	ROBBINS WATERFLOOD	56245	-1	HEATH BROWN ET AL	*	20	28	1E	SG		ROBBINS	C	190	0	MISS. CHAT	3080	40	5	1	000047	4	0	IRREG.	0	470	MISS. CHAT	3080	B	S GAS	-1	171	0	11	170	0	-1	0	387	1632	0
STELBAR AND SHAWVER	ROBBINS	-1	-1	ROBBINS	*	16	28	1E	SG		ROBBINS	C	360	0	MISSI	3000	35	11	0	000054	8	0	LINE	200	-1	SURFACE	20	F	*	40	-1	-1	59	-1	-1	-1	-1	695	-1	-1
SUMNER																																								
CONTINENTAL OIL CO.	NORRISH	-1	9209	R. A. NORRISH	E2 SE	27	34	2E	SU		PADGETT	P	80	-1	MISS. CHAT	3450	60	4	0	FUTURE	-1	-1	5 SPOT	-1	-1	MISS. CHAT	3450	B	S GAS + WAT	39										
COOP. REF. ASSOC.	VERNON NORTH UNIT	62826	7744	VERNON NORTH UNIT	*	9	35	2E	SU		VERNON NORTH	C	288	0	MISSI DOL	3392	11	5	4	100161	3	0	PERIP.	0	156	STALN	2292	B	S GAS	40	67	0	2	23	0	226	0	2	29	0
COOP. REF. ASSOC.	*	45087	3396	WELLINGTON UNIT	*	33	31	1W	SU		WELLINGTON	C	2240	0	MISSI	3650	20	89	5	030153	33	10	LINE	150	10564	TOPEKA + STALN	1950	B	S GAS	46	4307	0	662	2127	0	25751	0	3728	8260	0
LEWIS, JAMES A.	HILLTOP	64699	8330	HILLTOP FIELD	ALL OF SECTION	36	34	2E	SU		HILLTOP	C	700	0	BARTL	3500	17	29	17	010162	31	0	5 SPOT	40	6232	LAYT + STALN	2500	B	GAS EXP	40	2275	0	0	149	0	2275	0	0	149	0
PETROLEUM MANAGEMENT	CHITWOOD-SNYDER	63556	7955	CHITWOOD-SNYDER	E2	15	30	1W	SU		ZYBA	C	160	0	SIMP	3871	15	8	1	030062	2	0	IRREG.	400	-1	SIMP	3871	B	*	44	115	0	22	269	0	115	0	22	144	0
SHELL OIL CO.	*	14534	-1	J. M. ROTHWELL	NE SW	14	32	2E	SU	A	OXFORD				*	-1	-1	-1	-1	-1	-1	-1	*	-1	-1	*	-1	*	*	-1										
SHELL OIL CO.	*	21672	470	H. R. VANSICKLE NO. 2	SW NW SE	25	31	2E	SU	A	CHURCHILL				*	-1	-1	-1	-1	-1	-1	-1	*	-1	-1	*	-1	*	*	-1										
SHELL OIL CO.	*	22226	499	W. L. SHORE A NO. 2	S2 SE4	24	31	2E	SU	A	CHURCHILL				*	-1	-1	-1	-1	-1	-1	-1	*	-1	-1	*	-1	*	*	-1										
SKELLY OIL CO.	G. A. SPITLER WFD	62743	7693	G. A. SPITLER	NW	26	31	1W	SU		WELLINGTON NORTHEAST	C	125	0	MISSI	3655	14	6	0	041460	2	0	IRREG.	120	668	RET + SH SD	50	M	S GAS	42	233	0	9	38	0	659	0	33	129	0
STERLING DRLG. CO.	*	49950	4601	THIESSEN NO. 3	*	22	34	2E	SU		PADGETT	P	70	0	MISSI	3458	30	2	-1	FUTURE	1	-1	IRREG.	0	0	MISSI	3458	B	*	40										
SUNRAY D-X OIL CO.	COX	47902	4174	COX LEASE	NW4 + W2 SW4	15	30	1E	SU		BELLMAN	D	240	0	SIMP	3796	6	2	0	120055	1	0	IRREG.	-1	30	SIMP	3796	B	S GAS	49	9	0	-1	9	0	39	0	-1	39	0
TEXACO, INC.	*	53403	5282	FALL CREEK UNIT	*	3	35	3W	SU		FALL CREEK	C	510	-1	SIMP	4750	26	4	-1	110056	5	0	PERIP.	0	3181	SIMP	4750	B	*	46	1117	0	46	399	0	2849	0	-1	2932	0
TREGO + GRAHAM																																								
IMPERIAL OIL-KANS.	DIEBOLT	58907	6808	WAKEENEY NORTH	W2+NE4	9	11	23W	TG		DIEBOLT	P	320	340	LANSI	3592	4	13	1	010059	2	0	IRREG.	400	530	RET + LANSI	3588	B	G	40	483	0	7	-1	0	1956	0	36	-1	0
TREGO																																								
DREILING, LEO J.	*	-1	-1	REPRESSURING WATERFLOOD	NE4 + S2	20	15	21W	TR		KUTINA	O	480	-1	CHERO	4253	12	4	-1	-1	1	-1	IRREG.	0	170	CHERO	4252	B	WAT	40	45	0	-1	-1	-1	291	0	-1	-1	0
GENERAL AMERICAN OIL	*	66144	8718	SUNNYSLOPE FLOOD	SE4	21	14	21W	TR		SUNNYSLOPE	O	40	0	MARMATON	3850	12	2	2	040661	1	0	IRREG.	0	100	MARMATON	3900	B	S GAS	40	37	0	8	1	0	73	0	10	2	0
IMPERIAL OIL-KANS.	NEWCOMER	64246	8169	NEWCOMER B LEASE	W2	12	12	23W	TR		NEWCOMER	P	320	0	LANS-KC	3677	48	10	1	040060	2	0	IRREG.	-1	-1	LANSI	3677	B	G	38	520	0	13	-1	0	1592	0	-1	-1	0
IMPERIAL OIL-KANS.	NEWCOMER	71022	10092	NEWCOMER B LEASE	*	12	12	23W	TR		NEWCOMER	P			LANS-KC	3677	48			040060			IRREG.			LANSI	3677	B	G	38										
IMPERIAL OIL-KANS.	RHODEN	67348	9041	RHODEN A LEASE	NE4	24	12	23W	TR		RHODEN	P	160	0	LANS-KC	3684	84	2	0	090059	3	0	IRREG.	0	195	LANSI	3684	B	G	30	93	0	10	-1	0	470	0	103	-1	0
IMPERIAL OIL-KANS.	RHODEN	55283	5688	RHODEN A LEASE	*	24	12	23W	TR		RHODEN	P			LANS-KC	3684	84			090059			IRREG.			LANSI	3684	B	G	30										
PHILLIPS PETRO. CO.	*	64633	-1	RASEK A LEASE	*	12	12	23W	TR		NEWCOMER	P	60	0	LANS-KC	3700	-1	3	0	010062	1	0	IRREG.	-1	70	LANS-KC	3700	B	S GAS	39	77	0	18	147	0	77	0	41	328	0
WOODSON + COFFEY																																								
SUNRAY D-X OIL CO.	BAHR WATERFLOOD	69297	8745	C. AND J. BAHR LEASE	NE4	23	23	13E	WC		VIRGIL NORTHEAST	C	140	180	MISSI	1700	125	11	0	060061	3	0	IRREG.	170	520	RET + BARTL	1640	B	S GAS	38	190	0	-1	156	0	276	0	-1	222	0
WILSON																																								
BUDDRUS AND WOOD	LINN FLOOD	69521	9576	JAMES E. GUINETTE	SW4	31	28	17E	WL		ALTOONA	C	40	-1	SQUIRREL	700	12	4	-1	100651	3	-1	IRREG.	735	37	*	260	M	*	28	15	0	-1	4	0	23	0	-1	4	0
CENTAUR PETR. CORP.	*	-1	-1	VAN CAMP	*	34	29	15E	WL		FREDONIA	C	40	200	BARTL	1175	31	14	5	031361	10	0	5 SPOT	550	125	KC	450	B	S GAS	26	259	0	3	-1	0	517	0	3	-1	0
DEERFIELD OIL CORP.	THAYER	-1	-1	*	*	16	29	17E	WL		NEODESHA	C	325	60	BARTL	830	18	87	3	000055	30	24	5 SPOT	630	55	MISSI	1500	B	S GAS	31	634	0	31	-1	0	4800	0	220	-1	0
GAMBLE, VIRGIL	POST-WATSON	55410	5729	POST AND WATSON	*	34	28	16E	WL		ALTOONA	P	40	10	SQUIRREL	672	14	7	1	090057	1	-1	*	375	50	SQUIRREL	672	*	*	28	16	0	2	16	0	-1	-1	-1	-1	-1
HALO PRODUCING CO.	BURGHART TREND	-1	-1	*	*	33	27	15E	WL		BENEDICT	P	10	160	BARTL	800	40	15	82	000046	4	22	IRREG.	550	60	RET + MISSI	1200	B	S GAS	32	22	0	6	64	0	790	0	99	494	0
NOBLE OIL CO.	*	-1	-1	*	*	30	28	16E	WL	A	NEODESHA	C	31	-1	BARTL	798	12	-1	-1	-1	-1	-1	*	500	-1	FRESH	80	F	*	37	0	0	0	0	0	0	0	0	0	0
SCHERMERHORN OIL	WIGGANS POOL	55491	5749	WIGGANS	*	17	28	17E	WL		WIGGANS	C	400	200	BARTL	1000	30	92	3	082759	53	0	5 SPOT	500	1276	MISSI	1800	B	S GAS	28	449	0	138	-1	0	1162	0	327	-1	0
SHAMROCK RECONDITION	*	-1	-1	MORTON LEASE	NE4	24	28	15E	WL		BENEDICT	P	160	-1	BARTL	935	12	5	-1	100059	3	-1	*	400	150	*	450	B	*	32	54	0	4	27	0	-1	-1	-1	-1	-1
SUSMIO OIL CO.	NEOSHO FALLS WFD	-1	-1	NEOSHO FALLS WATERFLOOD	*	24	23	16E	WL		NEOSHO FALLS-LEROY	C	80	0	SQUIRREL	950	26	16	0	020152	12	0	5 SPOT	440	260	KC	350	B	*	26	94	0	15	55	0	892	0	251	-1	0
WALNE, WALTER H., JR.	FISHER	69314	9507	WALTER H. WALNE, JR.	*	24	27	16E	WL		VILAS	C	35	30	BARTL	1000	10	8	2	092862	7	0	5 SPOT	350	60	BIG SALT	1100	B	S GAS	30	29	0	0	0	0	29	0	0	0	0
WOOD, FRED E.	NEODESHA UNIT NO. 1	-1	9937	NEODESHA UNIT NO. 1	*	29	30	16E	WL		NEODESHA	C	50	900	BARTL	800	13	8	-1	011461	11	-1	5 SPOT	400	500	LANS-KC	70	B	S GAS	40	144	0	18	8	0	208	0	20	8	0
WOOD, FRED E.	NEODESHA UNIT NO. 2	-1	9559	SALT WATER REPRESSURING	SW4	7	30	16E	WL		NEODESHA	C	8	1000	BARTL	900	18	0	1	FUTURE	0	1	5 SPOT	-1	-1	BIG SALT	1000	B	S GAS	38	0	0	0	0	0	0	0	0	0	0
WOODSON																																								
ALADDIN PETRO. CORP.	FUHLHAGE	-1	-1	FUHLHAGE	W2	27	25	14E	WO		QUINCY	C	80	0	BARTL	1450	20	5	1	-1	2	1	IRREG.	200	90	BARTL	1400	B	*	38	42	0	0	7	0	208	0	0	46	0
BARNETT OIL CO.	BAHR	63545	7949	BAHR	NW4	23	23	13E	WO		WINTERSCHIED	*	-1	-1	*	-1	-1	-1	-1	-1	-1	-1	*	-1	-1	*	-1	*	*	-1	-1	0	0	-1	-1	-1	0	0	-1	-1
BARBARA OIL CO.	MACLASKEY NO. 29	27366	1054	MACLASKEY 29	NE4	29	23	14E	WO		WINTERSCHIED	D	160	0	MISSI	1689	15	13	13	091444	-1	-1	IRREG.	-1	-1	MISSI	1689	B	*	39	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
BIRD-HANLEY-SHEEDY	BATESVILLE	24829	727	ENLOE-LEE-TIPTON, ETC.	*	28	25	14E	WO		QUINCY	C	650	50	BARTL	1450	30	46	10	070442	38	10	5 SPOT	400	3788	KC	670	B	S GAS	40	1383	0	90	554	0	19096	0	2653	5729	0
BIRD-HANLEY-SHEEDY	YATES CENTER	30714	1474	AETNA	*	27	25	15E	WO		YATES CENTER	C	200	50	MISSI	1500	5	6	1	081546	3	0	5 SPOT	0	190	KC	550	B	WAT	31	67	0	4	24	0	584	0	90	249	0
DREYER, LELAND	BERRY UNIT	57613	6419	BERRY LEASE	SW4	26	23	13E	WO		VIRGIL NORTH	D	-1	-1	MISSI	1794	12	5	4	060058	5	3	IRREG.	100	100	MISSI	1794	B	GAS	39	37	0	-1	37	0	-1	-1	-1	-1	-1
FRENCH OIL CO.	*	62437	7898	*	NE4	35	23	14E	WO		WINTERSCHIED	D	80	-1	MISSI	1675	12	5	1	060060	5	1	*	0	40	MISSI	1675	B	*	38	-1	-1	3	-1	-1	-1	-1	9	-1	-1
FRENCH OIL CO.	*	46739	3902	W. P. HEADLEY	S2 SW4	29	23	14E	WO		WINTERSCHIED	C	120	0	MISSI	1700	8	12	2	000054	10	2	IRREG.	150	-1	DOUGL	835	B	*	38	-1	-1	7	-1	-1	-1	-1	25	-1	-1
FRENCH OIL CO.	*	55126	5646	H. SHRIMPLIN	SE4 + E2 NE4	20	23	14E	WO		WINTERSCHIED	C	80	80	MISSI	1700	11	11	2	000057	10	1	*	50	-1	MISSI	1700	B	*	38	-1	-1	5	-1	-1	-1	-1	15	-1	-1
FRENCH OIL CO.	*	55154	5662	HEADLEY	N2 SE4	29	23	14E	WO		WINTERSCHIED	C	60	0	MISSI	1700	12	5	2	000057	6	0	*	100	150	DOUGL	835	B	*	38	-1	-1	7	-1	-1	-1	-1	16	-1	-1
FRENCH OIL CO.	*	20551	416	DEWEY	SW4	32	23	14E	WO		WINTERSCHIED	C	120	40	MISSI	1700	8	7	2	000040	7	1	*	0	60	MISSI	1700	B	*	37	-1	-1	5	-1	-1	-1	-1	18	-1	-1
FRENCH OIL CO.	MACLASKEY	27368	1056	MACLASKEY EST.	NE4	31	23	14E	WO		WINTERSCHIED	C	80	-1	MISSI	1700	10	4	2	-1	-1	-1	5 SPOT	50	60	MISSI	1700	B	*	-1	-1	-1	3	-1	-1	-1	-1	11	-1	-1
FRENCH-WINTERSCHIED	*	55125	5645	EMMA OTTO	W2 NW4	21	23	14E	WO		WINTERSCHIED	C	40	-1	MISSI	1680	10	3	1	000057	2	1	*	0	30	MISSI	1680	B	*	36	-1	-1	2	-1	-1	-1	-1	6	-1	-1
FRENCH-WINTERSCHIED	ESTES-SMITH JOBES	27367	1055	ESTES LEASE	S2 NW4	7	24	14E	WO		WINTERSCHIED	C	80	0	MISSI	1700	8	5	2	-1	-1	-1	5 SPOT	50	75	MISSI	1700	B	*	37	-1	-1	4	-1	-1	-1	-1	25	-1	-1
FRENCH-WINTERSCHIED	W. JONES	56515	6088	WALTER JONES	W2 + W2 NE4	30	23	14E	WO		WINTERSCHIED	D	120	-1	MISSI	1700	5	3	2	000058	4	0	*	0	-1	MISSI	1700	B	*	36	-1	-1	3	-1	-1	-1	-1	8	-1	-1
FRENCH-WINTERSCHIED	*	46691	3893	SMITH-JORES	N2 NW4	7	24	14E	WO		WINTERSCHIED	D	80	0	MISSI	1700	8	4	2	000054	6	0	*	0	70	MISSI	1700	B	*	36	-1	-1	3	-1	-1	-1	-1	18	-1	-1
HAAS, JOHN L.	COLT	56773	6177	COLT	*	36	23	14E	WO		WINTERSCHIED	D	-1	-1	MISSI	1615	10	8	-1	-1	-1	-1	*	-1	30	*	-1	B	*	38	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HAAS, JOHN L.	FUNK	-1	6251	FUNK	S2 NE4	22	23	14E	WO		WINTERSCHIED	P	-1	-1	MISSI	1675	10	5	0	-1	-1	-1	*	-1	20	*	-1	B	*	40	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
HAAS, JOHN L.	SWITZER	65162	8422	SWITZER	*	3	24	15E	WO		WISSMAN	D	-1	-1	MISSI	1504	8	3	-1	-1	-1	-1	*	-1	30	*	-1	B	*	32	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
J AND J OIL CO.	APT JOHNSON FLOOD	-1	-1	*	*	35	26	16E	WO		BUFFALO				*	-1	-1	-1	-1	-1	-1	-1	*	-1	-1	*	-1	*	*	-1										
LAYTON OIL COMPANY	ROSE UNIT	67151	8990	ROSE	*	20	26	17E	WO		PERRY-HALLIGAN	C	300	150	SQUIRREL	850	15	68	15	000053	25	3	5 SPOT	550	-1	ARBUC	1700	B	S GAS	28	479	0	13	146	0	1324	0	34	-1	0
MCCORMICK, L. M.	*	-1	-1	WALLACE	*	21	25	15E	WO		YATES CENTER	*	80	-1	MISSI	1500	8	4	1	-1	1	-1	IRREG.	0	140	MISSI	1500	B	*	31	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
MCCORMICK, L. M.	*	-1	-1	ASHBY LEASE	*	13	26	14E	WO		BIG SANDY	*	160	-1	BARTL	1300	30	6	0	-1	0	-1	IRREG.	600	150	BARTL	1300	B	*	27	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
PERRINE AND WRIGHT	EMERY LEASES	56663	6143	*	*	33	23	14E	WO		WINTERSCHIED	R	10	-1	MISSI	1700	12	26	1	031558	1	0	*	350	150	MISSI	1700	B	GAS	38	2	0	0	2	0	9	0	0	9	0
PETROL EQUITIES CO.	QUINCY	-1	-1	*	*	14	25	13E	WO		QUINCY	C	50	20	BARTL	1450	35	5	2	-1	6	0	IRREG.	600	150	*	-1	M	S GAS	40	196	0	17	-1	0	-1	-1	-1	-1	-1
PHILLIPS, BURTON E.	HERRICK NORTHEAST	-1	9142	HERRICK NORTHEAST LEASE	W	4	24	16E	WO		VERNON	F	8	152	SQUIRREL	1040	12	8	0	030062	1	0	7 SPOT	200	2MCF	NONE	-2	A	S GAS	25	0	450	**	-1	-1	0	450	**	-1	-1
PURE OIL CO.	*	56304	6001	JAMES DYE WELL NO. 8	SW4	7	24	13E	WO		WINTERSCHIED	P	120	-1	MISSI	1610	45	4	3	030158	1	0	*	0	102	MISSI	1633	B	S GAS	39	38	0	-1	38	0	182	0	-1	182	0
PURE OIL CO.	*	48199	4218	H. D. STEVENS WELL 5	N2 NW4 + W2 NW4 NE4	5	24	14E	WO		WINTERSCHIED	P	90	-1	MISSI	1674	32	7	2	090139	1	0	*	0	21	MISSI	1695	B	S GAS	40	8	0	-1	8	0	331	0	-1	331	0
PURE OIL CO.	*	44502	3299	J. WINTERSCHIED WELL 4	N2 + SW4	6	24	14E	WO		WINTERSCHIED	P	430	-1	MISSI	1746	31	10	5	122252	1	1	*	0	202	MISSI	1677	B	S GAS	40	71	0	-1	-1	0	1645	0	-1	1645	0
QUARTET OIL CO.	*	57029	6222	EMMA OTTO LEASE	W2 SW4	21	23	14E	WO		WINTERSCHIED	P	40	20	MISSI	1632	4	3	0	000059	1	0	*	-1	-1	MISSI	1632	B	*	37	21	0	2	65	0	65	0	17	65	0
SEMPRE OIL CO.	*	69504	9566	D. W. LONG	SE4	11	24	16E	WO		VERNON	C	10	30	SQUIRREL	1000	28	6	1	061462	3	0	5 SPOT	220	100	KC	560	B	S GAS	25	13	0	3	0	0	13	0	3	0	0
SHIRA DRILLING	*	-1	8951	ROSS LEASE	*	27	23	16E	WO		VERNON	O	40	-1	SQUIRREL	1068	19	2	0	102761	1	0	IRREG.	100	50	MISSI	1400	B	*	27	18	0	0	-1	0	22	0	0	-1	0
SINCLAIR OIL AND GAS	WINTERSCHEID	-1	7103	WATERFLOOD	*	29	23	14E	WO		WINTERSCHIED	C	640	-1	MISS. CHAT	1700	20	34	3	090060	9	4	5 SPOT	0	1600	RET + DOUGL	700	B	S GAS + WAT	42	499	0	46	209	0	923	0	91	449	0
WOODSON PIPELINE	BIG SANDY	56532	6103	BIG SANDY	NE4 + NE [illegible]4 + N2 SW4	23	26	14E	WO		BIG SANDY	P	240	-1	BARTL	1200	50	23	11	010057	4	-1	5 SPOT	375	300	*	1000	M	*	21	105	0	41	-1	0	366	0	218	-1	0

NOTE: The oil production reported by Pan American Oil Company has been adjusted by a factor of one-half (to a lower value) by the Kansas Geological Survey.

EXPLANATION FOR SYMBOLS

Symbols
- -1 = No information or insufficient information
- -2 = Question not applicable to this project
- * = No information or insufficient information
- ** = Secondary oil production less than 500 barrels
- \+ = Symbol meaning and
- Mbbls = 1000 barrels
- Mcf = 1000 cubic feet

EXPLANATION FOR ABANDONED COLUMN

- T = Temporarily abandoned project
- A = Abandoned project

EXPLANATION FOR TYPE OF PROJECT

- C = Controlled waterflood
- P = Pressure maintenance
- D = Dump flood
- O = Other
- A = Air flood
- G = Carbon dioxide injection
- F = Fire flood
- R = Recycled

EXPLANATION FOR TYPE OF PRIMARY PRODUCTION MECHANISM

- S GAS = Solution gas drive
- GAS EXP = Gas expansion drive
- GAS = Gas drive
- LIM GAS = Limited gas drive
- CAP = Gas cap drive
- WAT = Water drive
- INACT WAT = Inactive water drive
- LIM WAT = Limited water drive
- G = Gravity drive

EXPLANATION FOR PATTERN

- 7-SPOT = 7-spot pattern
- 5-SPOT = 5-spot pattern
- 2-SPOT = 2-spot pattern
- IRREG. = Irregular or random pattern
- PERIP. = Peripheral or perimeter pattern
- LINE = Line-drive pattern
- NONE = No pattern

EXPLANATION FOR TYPE OF WATER INJECTED

- B = Brine water
- F = Fresh water
- M = Mixture of fresh and brine water
- A = Air
- G = Gas

EXPLANATION OF IBM TERMS FOR OIL PRODUCING FORMATIONS AND FOR SOURCES OF INJECTION WATER

IBM Codes	Stratigraphic Names
ADMIRE	= Admire Group
ARBUC	= Arbuckle Group
B PENN	= "Basal Pennsylvanian"
BARTL	= "Bartlesville Sand"
BURL	= Burlington Lime
BURLI	= Burlingame Lime
CATTLEMAN	= "Cattleman Sand"
CEDAR HILLS	= Cedar Hills Sand
CHAT	= "Chat"
CHERO	= Cherokee Group
CONGL	= "Conglomerate Chert"
DODGE	= "Dodge Sand"
DOUGL	= Douglas Sand
EL DORADO	= "El Dorado Sand"
FT. SCOTT	= Ft. Scott Lime
GORHAM	= "Gorham Sand"
GRT. W.	= "Granite Wash"
HOOVER	= "Hoover Sand"
HOWARD	= Howard Lime
HUNTON	= "Hunton Lime"
INDIAN CAVE	= Indian Cave Sand
KC	= Kansas City Group
KEO	= Keokuk Lime
KINDH	= Kinderhookian Series
LANSI	= Lansing Group
LANS-KC	= Lansing-Kansas City Group
LAYT	= "Layton Sand"
LONGTON	= "Longton Sand"
MAQUO	= Maquoketa Shale
MAQUO DOL	= "Maquoketa Dolomite"
MARMATON	= Marmaton Group
MISENER	= Misener Sand
MISSI	= Mississippian System
MISS CHAT	= "Mississippian Chat"
MISS CONGL	= "Mississippian Conglomerate"
MISSI DOL	= "Mississippian Dolomite"
MORROW	= Morrowan Series
NEW ALBANY	= "New Albany Sand"
PENN	= Pennsylvanian System
PENN. CONGL.	= "Pennsylvanian Conglomerate"
PENN-MISSI CONGL	= "Pennsylvanian-Mississippian Conglomerate"
PERU	= "Peru Sand"
PLATT	= Plattsmouth Lime
REAGAN	= Reagan Sand
REDD	= "Redd Sand"
SH EL DORADO	= "Shallow El Dorado"
SIMP	= Simpson Sand
SQUIRREL	= "Squirrel Sand"
STALN	= "Stalnaker Sand"
TARKIO	= Tarkio Lime
TOPEK	= Topeka Lime
TORONTO	= Toronto Lime
TUCKER	= "Tucker Sand"
VI	= Viola Lime
WAYSIDE	= "Wayside Sand"
WEISER	= "Weiser Sand"

ADDITIONAL EXPLANATION OF TERMS FOR SOURCES OF INJECTION WATER

BIG SALT	= "Big Salt Sand"
CHEYENNE	= Cheyenne Sand
CITY	= Municipal Water Supply Used as Source
DAKOTA	= Dakota Sand
ELGIN	= Elgin Sand
FT. RILEY	= Ft. Riley Lime
FRESH	= Unnamed Fresh Water Source
HERTHA	= Hertha Lime
MEADE	= Meade Formation
NONE	= No Water Injected
OFFSET INJECTION	= Source of Water from Adjacent Waterflood
PEACOCK	= "Peacock Sand"
PENN SD	= Pennsylvanian Sand
QUARTZI	= "Quartzitic Sand"
RET	= Return or Produced Water
ROUBIDOUX	= Roubidoux Formation
SALT SD	= Unnamed Salt Water Sand Source
SH GRAV	= Unnamed Shallow Gravel Source
SH SD	= Unnamed Shallow Sand Source
SURFACE	= Surface Water Source
WELLS	= Shallow Well Source
WREFORD	= Wreford Lime
400 FT. SD	= Unnamed Sand Source at 400 Ft.
420 FT. SD	= Unnamed Sand Source at 420 Ft.