

TABLE 6.- MICHIGAN OIL FIELDS - 1963 (Sheet 1 of 7)

FIELD NAME AND COUNTY	YEAR DRILLING	PRODUCING FORMATION	PAY ZONE		GRAV. A.P.F.	DEPTH FEET TESTED	DEPTH FEET	NUMBER OF OIL WELLS			OIL PRODUCTION IN BARRELS		DILLED ACRES	RECOVERY (PERCENT DILLED) (TABLES)	BRINE PRODUCTION		BBL PER DAT	
			DEPTH FEET	THICK				TO END 1963	IN 1963	ABAND. IN 1963	PROD. AT END 1963	1963			CUMULATIVE	SUBSURFACE		DISPOSAL
ADMIR	1961	SALINA-MIAGARAN	2719	10	D		2755	MIAGARAN	0	0	17	(1 SD)	50,564	134,335	520	285	1	286
ADAMS	1937	TRAVERSE	2032	15	L		5079	RODS BLANK	0	0	8	(3 SD)			240	78	2	80
	1937	DUNDRE	2998	15	L				0	0	17	(1 SD)			310	19	6	25
	1941	RICHFIELD	4278	5	L				0	0	8	(1 SD)				0	0	0
	1956	DETROIT RIVER SE	3943	5	L				0	0	8	(1 SD)	22,312	1,320,680	1,080	0	3	3
									SEE 8 WELLS INCLUDE 5 RICHFIELD, 1 SOOR ZONE, AND 2 RICHFIELD & SOOR ZONE.									
ADAMS, NORTH	1940	DUNDRE	2905	15	D		4489	DETROIT RIVER	0	2	19	(1 SD)	30,837	9,038,489	470	3,662	2	3,664
ADAMS, WEST	1936	DUNDRE	2678	17	L		4130	STAVANTA	0	3	34	(1 SD)			800	0	302*	302
ADAMS, EAST	1938	DETROIT RIVER	3422	11	D				0	0	19		61,597	1,533,452	40	0	35*	35
	1954	RICHFIELD	3774	6	D				0	0	19					0	0	0
									SEE 19 WELLS INCLUDE 2 RICHFIELD, 12 SOOR ZONE, AND 5 SOOR ZONE & DUNDRE.									
ALBION-PULASKI-SCHITO TRENDS: CALROUSE, JACKSON, AND HILLSDALE COUNTIES																		
ALBION	1961	MIAGARAN	3060	20	D		4912	PRAIRIE BY CHELSE					145,887	940,378	240	0	0	0
ALBION, WEST	1960	TRAVERSE-BLA RIVER	4600	24	D				2	1	10 ⁶	(3 SD)	145,887	940,378	200	1,228	0	15
									SEE 10 WELLS INCLUDE 9 TRAVERSE AND 1 MIAGARAN.									
ALBION, EAST	1960	TRAVERSE-BLA RIVER	4179	10	D		4791	PRAIRIE DU CHELSE	1	0	21	(2 SD)	296,636	1,016,705	420	2,421	0	897
ALBION, WEST	1958	TRAVERSE-BLA RIVER	3922	7	D		4623	PRAIRIE DU CHELSE	4	1	135	(6 SD)	1,947,411	9,517,951	2,700	3,525	0	1,245
ALBION, EAST	1959	TRAVERSE-BLA RIVER	3766	6	D		4395	PRAIRIE DU CHELSE	2	0	131	(2 SD)	2,503,641	11,456,048	2,570	4,458	0	2,480
ALBION, WEST	1960	TRAVERSE-BLA RIVER	4197	4	D		4508	PRAIRIE DU CHELSE	0	0	131	(2 SD)	2,503,641	11,456,048	2,570	4,458	0	2,480
ALBION, EAST	1957	TRAVERSE-BLA RIVER	3776	5	D		4202	PRAIRIE DU CHELSE	2	0	135	(4 SD)	3,669,695	16,620,755	2,940	5,651	0	1,684
ALBION, WEST	1959	TRAVERSE-BLA RIVER	3984	6	D		4162	PRAIRIE DU CHELSE	3	0	30		613,023	1,532,368	730	2,103	0	62
									498	142	482		9,134,213	40,687,406	9,800	4,151	0	6,223
ALBION, EAST	1946	DUNDRE	2577	7	L		3375	DETROIT RIVER	0	0	2		2,697	284,088	350	812	0	0
ALBION, WEST	1945	TRAVERSE	2950	4	L		3686	DETROIT RIVER	0	0	1				80	200	0	200
ALBION, EAST	1945	DUNDRE	3645	5	L				0	0	4		7,313	386,847	160	1,612	0	0
ALBION, WEST	1945	DETROIT RIVER	2183	5	D		2550	DETROIT RIVER	0	0	1		81	7,613	30	294	0	0
ALBION, EAST	1953	RICHFIELD	4152	11	L				0	0	3		3,117	32,596	160	203	0	1
ALBION, WEST	1956	DETROIT RIVER SE	3822	14	L				0	0	3							
									SEE 3 WELLS INCLUDE 2 RICHFIELD, AND 1 RICHFIELD & SOOR ZONE.									
ALBION, EAST	1949	DUNDRE	3933	6	L		4017	DUNDRE	0	0	9		9,488	543,356	170	3,156	0	195
ALBION, WEST	1947	TRAVERSE	3097	1	L		3745	DETROIT RIVER	0	2	0		20,227	20,227	50	405	0	-
ALBION, EAST	1947	RICHFIELD	4160	20	D		4503	STAVANTA	0	20	77	(2 SD)	137,585	5,903,369	3,960	1,491	0	108
ALBION, WEST	1934	DUNDRE	3929	12	L		5225	RICHFIELD	0	0	3		5,721	839,939	320	2,685	0	65
ALBION, EAST	1936	DUNDRE	3945	12	L				0	0	19				700	121	2	123
ALBION, WEST	1956	TRAVERSE	3231	6	L		4977	DETROIT RIVER	0	0	19		24,620	1,489,132	10	2,092	0	0
ALBION, EAST	1943	DUNDRE	3876	2	L		5094	DETROIT RIVER	0	1	6		22,671	84,225	260	304	0	5
ALBION, WEST	1944	DUNDRE	3470	1.3	D		3615	DUNDRE	0	0	4	(1 SD)	1,771	330,255	220	1,501	0	120
ALBION, EAST	1961	MIAGARAN	(REFER TO GAS FIELDS)										788					
ALBION, WEST	1937	DUNDRE	3510	13	L		5114	STAVANTA	0	2	50		47,849	2,557,152	1,980	1,305	0	91
ALBION, EAST	1952	RICHFIELD	4440	14	L				0	0	1							
ALBION, WEST	1952	TRAVERSE	2825	6	L		5114	STAVANTA	0	0	1							
									SEE SMALL PRODUCTION OF PRODUCTION ACRES HELD TO RICHFIELD & TRAVERSE.									

TABLE 6.- MICHIGAN OIL FIELDS - 1963, Continued (Sheet 2 of 7)

FIELD NAME AND COUNTY	YEAR DRILLING	PRODUCING FORMATION	PAY ZONE		GRAV. A.P.F.	DEPTH FEET TESTED	DEPTH FEET	NUMBER OF OIL WELLS			OIL PRODUCTION IN BARRELS		DILLED ACRES	RECOVERY (PERCENT DILLED) (TABLES)	BRINE PRODUCTION		BBL PER DAT	
			DEPTH FEET	THICK				TO END 1963	IN 1963	ABAND. IN 1963	PROD. AT END 1963	1963			CUMULATIVE	SUBSURFACE		DISPOSAL
ALBION, WEST	1960	MIAGARAN	3600	25	D		4310	CHEMUNAWAN	0	0	3		37,708	153,208	120	1,276	0	0
ALBION, EAST	1957	TRAVERSE	2997	1	L		3731	REED CITY	0	0	2		3,145	86,307	30	2,790	0	450
ALBION, WEST	1961	MIAGARAN	2898	5	D		3097	CLIFTON	5	0	7		83,375	102,000	180	566	0	72
ALBION, EAST	1949	DUNDRE	3949	6	L		4956	RICHFIELD	0	0	19				400	2	0	2
ALBION, WEST	1950	DETROIT RIVER	4070	7	D				0	0	9		17,893	669,136	200	1,115	0	0
ALBION, EAST	1957	DUNDRE	3940	5	L		4122	DETROIT RIVER	0	0	6		10,348	84,660	50	1,693	0	0
ALBION, WEST	1951	DUNDRE	2904	7	L		3483	DETROIT RIVER	3	0	22		19,236	132,832	220	604	0	1
ALBION, EAST	1954	DUNDRE	2536	10	L		2716	DUNDRE	0	0	32		28,977	388,061	480	808	0	1
									REFER TO ABANDONED FIELDS.									
ALBION, WEST	1944	TRAVERSE	3400	3.3	L		3271	DETROIT RIVER	0	1	9	(1 SD)	29,746	1,885,850	530	3,445	0	1,020
ALBION, EAST	1938	TRAVERSE	1244	4	L		3090	TRAVERSE	0	2	31	(4 SD)	11,904	9,994,697	4,030	2,463	0	1,230
ALBION, WEST	1958	SALINA-MIAGARAN	2457	292	D		2776	CLIFTON	1	4	40	(2 SD)	200,576	671,408	1,640	409	0	455
ALBION, EAST	1936	DUNDRE	3615	14	L		5351	STAVANTA	1	0	65	(1 SD)	138,050	18,318,281	3,020	6,065	0	1,710
ALBION, WEST	1936	DUNDRE	3570	11	L		4509	DETROIT RIVER	0	0	27	(1 SD)	30,333	4,827,140	2,270	2,126	0	10
									REFER TO ABANDONED FIELDS.									
ALBION, EAST	1959	DUNDRE	3678	4	L		3804	REED CITY	0	0	3				120	159	0	159
ALBION, WEST	1960	REED CITY	3022	2	D				1	0	1		17,611	114,746	40	717	0	55
ALBION, EAST	1949	DUNDRE	3956	6	L		5027	STAVANTA	0	1	0		ABANDONED 1963		20	-	-	
ALBION, WEST	1949	RICHFIELD	4921	10	D				0	0	5		8,534	252,745	200	1,149	0	36
									REFER TO ABANDONED FIELDS.									
ALBION, EAST	1944	REED CITY	3542	3	D		3731	DETROIT RIVER	0	0	7		20,000	840,635	590	1,424	0	1,670
ALBION, WEST	1943	DUNDRE	3810	2	L		5165	STAVANTA	0	0	7				400	1,950	0	1,950
ALBION, EAST	1945	RICHFIELD	5060	6	L				0	0	2		18,787	1,000,116	60	2,174	0	0
ALBION, WEST	1943	BEREA	2460	4	SL		3734	DETROIT RIVER	0	0	1		177	6,647	20	332	0	0
ALBION, EAST	1962	MIAGARAN	2908	7	D		2691	MIAGARAN	0	1	1		5,530	7,124	200	36	0	20
ALBION, WEST	1962	MIAGARAN	2909	11	D		2631	CLIFTON	2	1	0	(2 SD)	863	1,363	80	17	-	-
									REFER TO GAS FIELDS.									
ALBION, EAST	1961	MIAGARAN	(COMBINED WITH COTTRELLVILLE IN 1962)															
ALBION, WEST	1959	SALINA	(COMBINED WITH COTTRELLVILLE IN 1962)															
ALBION, EAST	1961	TRAVERSE	3193	1	L		3220	TRAVERSE	1	0	1		0	0	10	0	0	15*
ALBION, WEST	1938	MICHIGAN STRAY	1303	2	S		3953	DUNDRE	0	0	4	(1 SD)	1,223	68,961	120	575	0	0
ALBION, EAST	1935	DUNDRE	2465	12	DL		4163	STAVANTA	0	1	48	(3 SD)		1,290		1,948	0	1,968
ALBION, WEST	1947	RICHFIELD	3790	9	D				0	0	5		57,906	5,888,629</				

TABLE 6.- MICHIGAN OIL FIELDS-1963, Continued (Sheet 3 of 7)

Table with columns: FIELD NAME AND COUNTY, YEAR DISC., PRODUCING FORMATION, PAY ZONE, DEPTH, OILY, GRAV. A.P.L., DEPTH TESTED, DEPTH RICHIFIED, NUMBER OF OIL WELLS, OIL PRODUCTION IN BARRELS, BEINE PRODUCTION, and TOTAL PRODUCTION. Includes fields like DAY, DEEP RIVER, DEERFIELD, DEERWOOD, etc.

TABLE 6.- MICHIGAN OIL FIELDS-1963, Continued (Sheet 4 of 7)

Table with columns: GROUP, YEAR DISC., PRODUCING FORMATION, PAY ZONE, DEPTH, OILY, GRAV. A.P.L., DEPTH TESTED, DEPTH RICHIFIED, NUMBER OF OIL WELLS, OIL PRODUCTION IN BARRELS, BEINE PRODUCTION, and TOTAL PRODUCTION. Includes fields like HANGLTON, HANOVER, HANSON, etc.

TABLE 6.- MICHIGAN OIL FIELDS - 1963, Continued (Sheet 5 of 7)

FIELD NAME AND COUNTY	YEAR OF DISC.	FRAMING FORMATION	PAL ZONE		DEPT. IN FEET	DEEPEST BOOR TESTED	NUMBER OF OIL WELLS		OIL PRODUCTION IN BARRELS		DILLED ACRES	RECOVERY EFFICIENCY (TABLE 1)		BRINE PRODUCTION		BBL. PER DAY TOTAL PRODUCTION	
			THICK	LOSS			TO END 1963	COMP. IN 1963	1963	CUMULATIVE		SUBSURFACE	SURFACE	RECOVERY EFFICIENCY (TABLE 1)	RECOVERY EFFICIENCY (TABLE 1)		SUBSURFACE
MT. FOREST	1947	DUNDRE	3045	9 D	4305	RICHFIELD	37	0	1	26	960	7	0	0	7	7	
MR. PLEASANT	1952	TRAVERSE	2124	2 L			4	0	0	2	(4 SD)	9,937	771,408	80	0	8*	
	1958	DUNDRE	3945	15 L	4821	STIVANIA	485	0	1	147	(3 SD)	112,648	26,778,913	5,710	819	43	
MUSKOGEE	1958	TRAVERSE	1700	3.5 L	4754	ST. PETER	-	1	0	19	6,978	6,978	3,170	2,800	25	181*	
	1956	RICHFIELD	4932	17	4165	DETROIT RIVER	1	0	0	1			40	0	0	0	
NORVILLE	1957	DUNDRE	3710	6		CAMBRO-ORD.	1	0	0	1	631	25,258	10	505	35	0	
	1954	TRIMON-BLK. RIVER	4395	2+ D	5850		16	2	0	12			240	0	0	163*	
OFTSVILLE	1960	TRAVERSE	3515	25 D			1	0	0	1	39,262	772,350	10	3,089	0	5*	
	1944	DUNDRE	2450	3 L	2674	DUNDRE	5	0	0	2			40	1	1	1	
OTTO, DEP. 32	1945	BEREA	1500	3 B			9	0	0	5	2,483	92,881	110	619	4	1	
	1950	"BEREA"	1445	1 L	1895	TRAVERSE	1	0	0	1	76	3,841	10	384	0	0	
OVENISEL	1938	TRAVERSE	1478	3 L	4660	TRIMON	164	0	0	30	13,869	2,896,391	1,770	1,614	45	30	
	1958	TRAVERSE	1652	1 L	1660	TRAVERSE	3	0	0	3	5,463	67,603	30	2,253	40	0	
PALES	1949	TRAVERSE	2890	10 D	3945	REED CITY	22	1	0	17	(1 SD)	18,894	1,128,249	440	2,564	1,095	0
	1963	TRAVERSE	1096	2 L	1098	TRAVERSE	7	7	0	7	(1 SD)	10,075	140	72	0	32*	
PAIN PAV	1948	DUNDRE	2088	10 D			143	0	6	92	(29 SD)	72,528	6,317,310	1,400	1,898	2,668	1
	1948	TRAVERSE	1985	8 L	40.4	PRAIRIE DU CHIEN	583	0	0	0			2,000	0	0	1	2,669
PEPERS	1957	SALINA-NIAGARAN	2615	2+ D	2662	CLINTON	83	2	0	79	(4 SD)	462,624	2,275,789	1,660	549	18*	
	1961	SALINA-NIAGARAN	2990	17 D	2134	CLINTON	9	3	0	9	(1 SD)	COMBINED WITH PEPPERS	360	1,127	60	0	60
PERCIVAL	1944	DUNDRE	2898	7 D	3790	DETROIT RIVER	12	0	3	2	10,913	826,032	100	8,260	180	1	
	1958	TRAVERSE															
PIRE	1938	TRAVERSE	2836	1 L	3308	DUNDRE	2	0	2	0	ABANDONED 1963 (819)	109,506	20	5,275	-	-	
	1962	TRAVERSE	822	1 L	1353	NIAGARAN	2	0	0	2	(1 SD)	0	0	0	0	1	
POLKTON	1942	TRAVERSE	1878	2 L	2351	DUNDRE	10	1	0	3	1,449	42,373	110	385	0	2	
	1933	DUNDRE	3415	12 L	5919	BLACK RIVER	529	1	19	165	(9 SD)	180,294	48,087,875	6,690	7,210	9,677	5
PROSPER	1942	DUNDRE	3837	4 L	5654	RICHFIELD	13	0	1	8	(1 SD)	23,720	1,631,449	520	3,137	2,600	0
	1954	RICHFIELD															
PULMAN, EAST	1949	TRAVERSE	1131	2 L	3020	TRIMON	25	0	0	13	5,527	348,177	250	1,393	147	6	
	1960	SALINA-NIAGARAN															
PUTTOUT	1952	TRAVERSE	1842	15 L	2601	DETROIT RIVER	37	0	4	10	2,602	450,621	730	617	79	2	
	1963	SALINA-NIAGARAN															
RAY	1940	DUNDRE	3490	3 L	8917	ST. PETER	208	0	-	117	(70 SD)	5,320	0	6,424	0	6,424	
	1941	REED CITY	3285	7 D													
REED CITY, EAST	1941	TRAVERSE	2025	5 L													
	1954	RICHFIELD	4633	12 SL													
REED CITY, WEST	1955	DETROIT RIVER SZ.	4184	73 DL													
	1947	TRAVERSE	5106	1 L													

TABLE 6.- MICHIGAN OIL FIELDS - 1963, Continued (Sheet 6 of 7)

REDFIELD	1958	TRAVERSE	2099	1 L	2100	TRAVERSE	3	0	0	1	1,944	44,076	30	1,469	100	0	100
REDFIELD	1954	REED CITY	3343	2 D	4300	BASS ISLAND	53	0	1	35	(2 SD)	2,100	2,100	2,553	11*	2,570	
RICE	1955	TRAVERSE	2787	4 D			15	1	0	11	198,713	3,795,791	110	1,718	1,385	1,36*	
	1952	DETROIT RIVER SZ.	3068	5	3257	STIVANIA	6	5	0	6	23,354	24,882	240	104	0	19*	
RIVERBEND	1942	DUNDRE	3944	3 L	3953	DUNDRE	3	2	0	3	8,475	90,232	100	902	140	0	
	1961	TRAVERSE	3220	2 L			1	0	0	1	1,219	2,782	10	278	0	5*	
RIVERVIEW	1957	TRAVERSE	1650	6 L	2317	DUNDRE	19	0	7	5	(1 SD)	4,395	229,149	190	1,265	75	0
	1956	DUNDRE	2107	7	2210	DUNDRE	2	0	0	1	778	6,121	20	306	0	1	
ROBERTSON, SEC. 3	1945	TRAVERSE	2204	3 L	2850	DETROIT RIVER	22	0	0	5	9,223	486,530	210	2,317	485	0	
	1953	DUNDRE	3690	6 L	4322	DETROIT RIVER	40	1	0	36	(2 SD)	30,877	1,907,183	900	2,119	287	9
ROSE CITY	1942	RICHFIELD	4125	9 D	5367	STIVANIA	125	1	1	117	(13 SD)	151,519	4,651,923	4,880	953	0	49
	1943	TRAVERSE	3140	5 L	3950	DETROIT RIVER	18	0	0	7	(1 SD)	26,460	1,609,232	720	2,235	410	4
ROSE LAKE	1925	BEREA	1825	16 B	3820	STIVANIA	-	0	0	16	6,184	1,630,308	1,500	1,087	0	19	
	1951	SALINA-TRAVERSE	1583	8 L	4347	TRIMON	337	0	0	101	52,156	8,178,158	3,320	2,284	289	31	
SANTIAM	1951	DUNDRE	3755	3 L	42.6		13	0	0	13	11,772	143,868	260	553	0	2	
	1959	TRAVERSE	3125	2 L													
SAUBLE	1942	TRAVERSE	2111	2 L	2156	TRAVERSE	5	0	0	2	1,259	143,020	200	715	1,000	0	
	1961	TRAVERSE	1646	3 L													
SCOTTVILLE	1962	REED CITY	2319	3 L	5129	CINCINNATI	17	1	0	16	120,617	208,847	360	580	1,714	0	
	1951	TRAVERSE	1743	3 L	2234	DUNDRE	20	0	0	6	(1 SD)	2,044	212,733	350	608	56	0
SEELY	1956	DUNDRE	3650	4 D	4994	STIVANIA	88	0	0	5	7,268	4,682,605	1,020	4,591	252	0	
	1959	TRAVERSE	806	2 D	1115	DETROIT RIVER	3	0	0	1	(SD)	0	0	30	-	-	
SILVER CREEK	1950	DUNDRE	3840	7 D	6016	STIVANIA	5	0	0	4			50	120	0	120	
	1955	TRAVERSE	3102	6 L	38.4		4	0	0	2			40	0	0	7	
SILVER LAKE	1942	DETROIT RIVER SZ.	4844	4 D	47.4												
	1953	RICHFIELD	5080	17 D	44.8		31	0	2	26	60,268	1,856,194	1,240	1,396	0	13*	
SPRINGPORT	1950	TRIMON-BLK. RIVER	4696	12+ D	5250	PRAIRIE DU CHIEN	1	0	0	1	167	488	40	12	0	0	
	1957	TRAVERSE	2305	3 L	2308	TRAVERSE	1	0	0	1	505	12,578	10	1,257	0	0	
ST. HELEN	1941	RICHFIELD	4180	11 L	5440	SALINA	99	0	0	65	73,222	3,488,967	3,960	881	0	22	
	1948	RICHFIELD	4108	3 D	4210	RICHFIELD	9	0	1	8	(1 SD)	6,554	140,429	360	390	0	0
STANDISH	1951	TRAVERSE	2916	7 DL	3492	DUNDRE	16	0	0	10	(1 SD)	25,016	805,658	320	2,517	317	0
	1947	DUNDRE	2872	17 L	4285	RICHFIELD	20	0	0	19	(1 SD)	200	200	200	0	2	
STANTON	1970	TRAVERSE	1970	5 L	36.2		22	0	0	16							
	1950	RICHFIELD	5153	8 D	37.6		40	0	1	34	95,545	1,682,337	1,600	833	0	3	
STEARNS	1952	DETROIT RIVER SZ.	3918	5 D	41.1												
	1946	TRAVERSE	1630	19 L	3837	NIAGARAN	78	0	0	50	(24 SD)	1,540	6,370	1	6,371	1	
STORY LAKE	1949	"BEREA"	990	1 SL	48.0		2	0	0	1	32,561	7,410,178	20	4,750	-	-	
	1958	TRIMON-BLK. RIVER	1940	10 DL	2382	TRIMON-BLK. RIVER	2	1	0	1	(SD)	442	2,048	20	102	-	-
SUMNER	1953	TRAVERSE	2853	1 L	3366	DUNDRE	35	0	1	28	(3 SD)	71,043	859,799	350	2,456	0	756
	1948	DUNDRE	3925	13.7 D	4100	DUNDRE	11	0	0	2	(1 SD)	4,147	1,168,234	440	2,655	760	0
TACONSHA	1959	TRIMON	3553	7 DL	4147	PRAIRIE DU CHIEN	1	0	1	0	ABANDONED 1963	2,668	10	-	-	-	
	1949	TRAVERSE	2039	1 L	2118	TRAVERSE	2	0	0	1	436	29,023	40	726	0	1	
TROMBLY	1957	TRAVERSE	1398	2 L	2952	CINCINNATI	162	0	1	15	(1 SD)	6,995	148,971</				

TABLE 6.- MICHIGAN OIL FIELDS - 1963, continued (Sheet 7 of 7)

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF OIL WELLS		OIL PRODUCTION IN BARRELS		RECOVERY PER ACRE (TABLE)	BRINE PRODUCTION		BBLR PER DAT				
			THICK	DEPTH AFTER SUCCESSION			TO END 1963	ABAND. IN 1963	1963	CUMULATIVE		SUBSURFACE	SURFACE					
UNION	1950	TRAVERSE	3191	2 L	DETROIT RIVER	4096	1	0	1	0	ABANDONED 1963 (0)	58,863	20	2,913	-			
VERBON	1930	DUNDEE	3755	3 DL	BOIS BLANC	5118	78	0	1	6	11,231	4,991,879	890	5,659	0	2,985		
WALZER	1938	TRAVERSE	1872	8 L														
	1940	"BEREA"	1121	21 SL	ST. PETER	5222	779	1	9	476	(3 SD)		8,530		20	95	115	
	1957	DETROIT RIVER	2132	12 D							THE 476 WELLS INCLUDE 470 TRAVERSE AND 6 BEREA.							
WATLAND	1944	TRAVERSE	1799	6 L	TRENTON-BLK. RIVER	4400	54	0	1	4	299	245,894	530	464	0	1	1	
	1960	SALINA	3132	12 D	TRENTON-BLK. RIVER	4400	10	0	10	(1 SD)	135,754	299,369	400	748	0	0	0	
WATLAND, NORTH	1957	TRAVERSE	1696	7 L	TRAVERSE	1712	15	0	2	7	2,132	95,563	150	637	0	7	7	
WEAVER	1961	TRAVERSE	1681	2 L	TRAVERSE	1688	3	0	1	1	775	6,531	30	218	0	1	1	
	1933	TRAVERSE			(REFERS TO ABANDONED FIELDS)													
WEST BRANCH	1933	DUNDEE	2650	20 L	CAMERO-ORD.	11,012	275	0	0	176	(1 SD)	89,428	2,772	111	35	146		
	1951	DETROIT RIVER SZ																
	1952	RICHFIELD	4127	9 D			63	0	0	62		120,185	2,073,371	2,520	0	3	3	
											THE 62 WELLS INCLUDE 30 RICHFIELD, 27 SCAR ZONE, AND 5 RICHFIELD & SCAR ZONE.							
WEITER CLOOD	1963	TRAVERSE	2537	1 L	TRAVERSE	2940	1	1	0	1	(SD)	1,092	40	27	-	-	-	
WILBY	1962	TRAVERSE	1663	5 L	REED CITY	2862	15	11	1	14		99,669	320	375	168	26	194	
WINDFIELD	1936	DUNDEE-REED CITY	3340	1 L	REED CITY	3430	8	1	0	2		2,986	120	830	0	12*	12	
WINTERFIELD	1940	TRAVERSE	3105	1 L	SYLVANIA	5273	8	0	0	6			200	6	0	0	6	
	1940	DUNDEE	3794	3 L			37	0	0	7	(1 SD)		740	1,675	0	1,675	0	
	1942	RICHFIELD	5015	15 D			2	0	0	1		32,401	80	4,860	0	3	3	
WISER	1938	DUNDEE	3700	11 L														
	1953	TRAVERSE	3090	31 L	SYLVANIA	5202	79	0	0	24	(1 SD)		1,640	0	1,463	0	1,463	
	1955	DETROIT RIVER SZ	4415	48 DL			2	0	0	1		36,720	80	2,188	14	0	14	
WOODVILLE	1943	TRAVERSE	2820	5 L	DETROIT RIVER	3534	10	0	0	10		9,889	350	1,393	80	2	82	
WRIGHT	1953	TRAVERSE	1920	1 L	DETROIT RIVER	2337	7	1	0	3			70	0	3	3	3	
	1954	"BEREA"	1170	3 L			4	0	0	4	(2 SD)	1,283	30	517	50	0	50	
WYOMING PARK	1939	TRAVERSE	1870	6 L	TRAVERSE	2255	21	0	0	1		233	300	519	0	0	0	
							143	155	4,598			15,971,229	145,700	3,996	149,696			

179 ACTIVE FIELDS AT THE END OF 1963

INCOMPLETE RECORD

TOTAL OF 143 NEW COMPLETIONS IN 1963 INCLUDING 8 WELLS DRILLED OR REDEEPTED TO NEW PAY ZONES AS COMPARED TO A TOTAL OF 135 AS SHOWN IN OTHER TABLES.

TOTAL OF 4598 PRODUCTIBLE WELLS DOES NOT INCLUDE GAS WELLS WHICH PRODUCED SOME OIL OR INJECTION WELLS.

TOTAL OF 4598 PRODUCTIBLE WELLS INCLUDES 384 SHUT-DOWN AND SHUT-IN WELLS.

TOTAL NUMBER OF PRODUCING WELLS IS 4,234.

TOTAL OF 155 ABANDONMENTS IN 1963 INCLUDES PAY ZONES WHERE WELLS WERE DEEPTED, RECOMPLETED OR PAY ZONES OR CONVERTED TO INJECTION WELLS.

BRINE FOR COMMERCIAL USES, LEASE FENCES, COUNTY ROLLS, ETC. 3,130 BARRELS

BRINE TO SURFACE FEES 866 BARRELS

TOTAL: 3,996 BARRELS

149,195,616 BARRELS OIL, CUMULATIVE PRODUCTION FROM ACTIVE FIELDS.

1,176,222 BARRELS OIL, CUMULATIVE PRODUCTION FROM ABANDONED FIELDS.

193,671,876 BARRELS OIL, TOTAL CUMULATIVE PRODUCTION.

15,971,229 BARRELS OIL FROM FIELDS ACTIVE IN 1963

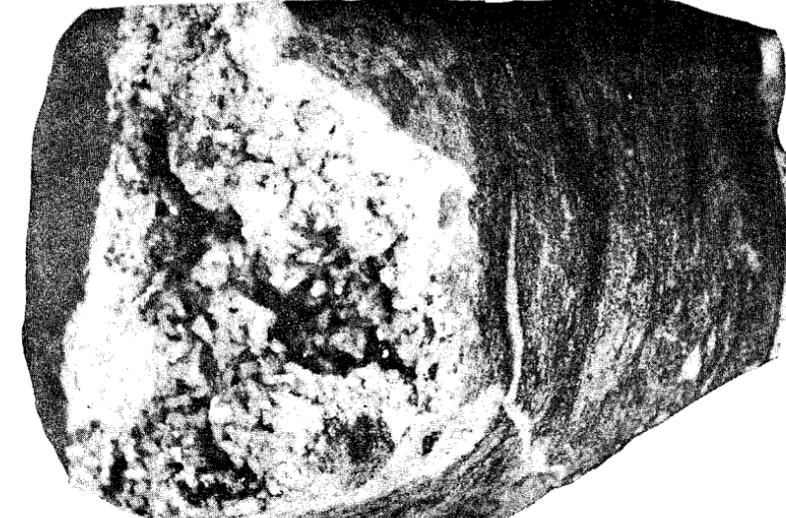
518 BARRELS OIL FROM MISCELLANEOUS WELLS IN 1963

15,971,747 BARRELS OIL, TOTAL PRODUCTION IN 1963

OIL FIELD CORE SECTIONS FRACTURED AND DOLOMITIZED LIMESTONE RESERVOIRS

A section of core from a field development well. Sun Oil Company - Hair #1 NW NE SW Section 20, T. 4S, R. 3W., Jackson County Producing Formation: Trenton - Black River, Ordovician System

The first discovery was made in Hillsdale County in 1957. Subsequent discoveries through 1963 extended the length of the trend to nearly 36 miles. Through 1963, the trend has produced 40,680,703 barrels oil and over 30,091,265 MCF Gas.



ALBION - PULASKI - SCIPIO TREND

DEEP RIVER FIELD

A section of core from a field development well. Basin and Rayburn - Sterling Bank #1 SE SW NE 8, T. 19N, R. 4E., Arenac County

This well was completed in the Dundee formation in 1944 at a total depth of 2783 feet and completed for an estimate (N) I P of 10,000 BOPD. It was deepened and cored in 1962 and finally abandoned. Through 1963, Deep River field has produced 25,741,928 barrels of oil from the Dundee formation.



TABLE 7.— FLUID INJECTION INTO PRODUCING FORMATIONS IN OIL FIELDS-1963 (Sheet 1 of 2)

FIELD & COUNTY	OPERATOR OR COMPANY	TYPE OF PROJECT	YEAR PROJECT STARTED	PAY ZONE		DEVELOPED ACRES	INJECTION FLUID	SOURCE OF INJECTION FLUID	VOLUME OF INJECTED FLUID - 1963			PRODUCTION - 1963			CUMULATIVE PRODUCTION			
				FORM	DEPTH				MCF GAS	BARRELS WATER	INJ. WELLS	MCF GAS	BARRELS WATER	SALES MCF GAS	WATER PRODUCED	NO. WELLS	BARRELS OIL	SALES MCF GAS
ADAMS	AREMAC	B.D. & P.M.		TRAV.	15	2,032	BRINE	PROD. BRINES	27,375	1		3,793	29,200	5	191,900			
ADAMS	AREMAC	B.D. & P.M.		DD.	15	2,958	BRINE	PROD. BRINES	6,570	1		11,825	8,760	16	866,871			
ADAMS, NORTH	AREMAC	B.D. & P.M.		DD.	2,905	470	BRINE	PROD. BRINES	241,265	2		30,837	1,337,360	18	9,038,489			
BAIRD	GLADWIN	B.D. & P.M.		DD.	6	3,933	BRINE	PROD. BRINES	31,025	2		9,488	71,175	9	543,396			
BEAUFORT, SOUTH	GLADWIN	UNIT, PILOT WTR.	1959	DD.	12	3,845	FRESH WTR.	GLACIAL DRIFT	245,474	4	625,141	22,897	44,895	19	1,475,411			
BELLY ACHERS	MOBIL OIL CO.	B.D. & P.M.		DD.	2	3,470	BRINE	PROD. BRINES	43,800	1		1,771	43,800	3	330,255			
BEVENS LAKE	MCCOSTA	B.D. & P.M.		TRAV.	2	2,297	BRINE	PROD. BRINES	164,250	1		3,145	164,250	2	88,507			
BLOOMINGDALE	VAN BUREN	B.D. & P.M.		TRAV.	4	1,244	BRINE	PROD. BRINES	303,425	7		11,904	448,950	27	9,924,697			
BUCKEYE, NORTH	GLADWIN	COOP. WTR. FLOOD	1948	DD.	14	3,615	FRESH WTR. & BRINE	GLACIAL DRIFT	96,746	3	1,638,257	138,050	624,150	54	18,318,281	9,834		
BURDELL	OSCEOLA	B.D. & P.M.		DD.-R.C.	3	3,678	BRINE	PROD. BRINES	78,110	1	233,265	17,611	78,110	4	114,746			
CATO	MONTCALM	B.D. & P.M.		DD.-R.C.	3	3,542	BRINE	PROD. BRINES	390,250	1		20,000	609,550	7	840,635			
CLAYTON	AREMAC	B.D. & P.M.		DD.	12	2,465	BRINE	PROD. BRINES	712,845	6		52,115	718,320	45	5,876,389			
COLEWATER	ISABELLA	B.D. & P.M.		DD.	25	3,692	BRINE	PROD. BRINES	12,875,740	6		247,933	120,129,943,365	41	20,894,526	6,311,307		
CRYSTAL	MONTCALM	B.D. & P.M.		DD.	4	3,187	BRINE	PROD. BRINES	618,675	2		10,794	618,675	8	7,666,870			
DEEP RIVER	AREMAC	B.D. & P.M.		DD.	145	2,795	BRINE	PROD. BRINES	3,166,375	11		132,456	3,175,500	35	25,731,928			
DIAMOND SPRINGS	ALLEGAN	B.D. & P.M.		TRAV.	3	1,461	BRINE	PROD. BRINES	65,700	2		4,666	66,065	8	981,762			
EAST MONTICHI	MISSAUKEE	P.M., GAS & WTR. UNIT	1947	RICH.	13	4,390	GAS & FRESH WTR.	GLACIAL DRIFT	1,192,414	30	11,699,478	138,984	798,359	11,315	6,996,865	3,041,664		
EDEN	MASON	UNIT, REPRESSURIZING	1956	DD.	15	2,240	FRESH WTR.	GLACIAL DRIFT	600,123	1	28,670	33,500	5,160	503,700	8	2,665,574	275,801	
EMORE	MONTCALM	COOP., B. D. P.M. & B. D.	1960	TRAV.	4	3,102	BRINE	PROD. BRINES	320,835	2	856,870	49,456	131,041	377,410	28	1,222,264	974,831	
ELBRIDGE	OCEANA	B.D. & P.M.		TRAV.	2	2,160	BRINE	PROD. BRINES	511,000	3		150,079	686,565	16	299,866			
ENTERPRISE	MISSAUKEE	P.M., GAS & WTR. UNIT	1953	RICH.	15	4,405	GAS & FRESH WTR.	GLACIAL DRIFT	297,533	5	1,419,641	46,995	111,818	19,710	28	1,831,628	305,956	
EVART	OSCEOLA	B.D. & P.M.		DD.	6	3,755	BRINE	PROD. BRINES	803,000	3		12,267	803,000	8	3,764,619			
FERRY	OCEANA	B.D. & P.M.		TRAV.	2	1,949	BRINE	PROD. BRINES	262,800	2	1,653,161	14,077	262,800	6	156,926			
FILLMORE	ALLEGAN	B.D. & P.M.		TRAV.	3	1,516	BRINE	PROD. BRINES	26,280	2		5,662	28,470	11	939,362			
FOOK	MCCOSTA	B.D. & P.M.		DD.	8	3,845	BRINE	PROD. BRINES	907,390	1		5,432	907,390	4	7,725,215			
FREEMAN-BEDDING	CLARE	B.D. & P.M.		DD.	19	3,885	BRINE	PROD. BRINES	2,365,200	8		34,514	2,748,450	19	16,360,933	1,956,056		
GENEVA	VAN BUREN	B.D. & P.M.		TRAV.	2	1,042	BRINE	PROD. BRINES	127,750	1		1,563	127,750	1	491,093			
GILMORE	ISABELLA	B.D. & P.M.		DD.	3	3,803	BRINE	PROD. BRINES	602,650	2		16,683	602,650	8	314,796			
GROUP	GLADWIN	UNIT, WTR. FLOOD	1960	RICH.	10	5,039	FRESH WTR.	GLACIAL DRIFT	315,640	3	671,180	109,088	17,520	13	759,812			
HAMILTON	SUN OIL CO.	UNIT, WTR. FLOOD	1958	RICH.	12	5,145	FRESH WTR.	GLACIAL DRIFT	955,366	17	2,674,575	311,915	158,050	28	2,725,594	2,265,976		
HEADQUARTERS	CLARE-ROSCOMMON	B.D. & P.M.		TRAV.	5	3,356	BRINE	PROD. BRINES	403,690	4		10,327	403,690	6	7,405,287			
JEFFERSON	CASS	B.D. & P.M.		TRAV.	3	710	BRINE	PROD. BRINES	142,350	2	248,200	15,001	162,445	7	6,894			
JEROME	MIDLAND	COOP. PILOT WTR. FLOOD	1957	DD.	10	3,743	FRESH WTR.	GLACIAL DRIFT	13,815	1	67,399	4,035	1,460	3	214,204			
KARAWANIN	RAY	UNIT, WTR. FLOOD	1953	DD.	45	2,830	FRESH WTR. & BRINE	GLACIAL DRIFT	560,415	20	1,867,599	250,523	219,000	265	12,065,897	4,590		
LAKE GEORGE	CLARE	B.D. & P.M.		DD.	3	3,968	BRINE	PROD. BRINES	297,325	2		10,583	297,325	5	313,165			
MCHAIN	MISSAUKEE	B.D. & P.M.		DD.	15	3,969	BRINE	PROD. BRINES	1,275,675	2	2,732,750	297,431	1,275,675	24	1,693,004			
MT. PLEASANT	ISABELLA-MIDLAND	B.D. & P.M.		DD.	15	3,545	BRINE	PROD. BRINES	14,965	1		110,093	15,207	145	26,694,123	7,798,362		
MESKISON	MESKISON	B.D. & P.M.		TRAV.-DD.	1	1,700	BRINE	PROD. BRINES	9,125	1		8,878	75,190	19	6,974,350	7,237,438		
OVERSEEL	ALLEGAN	B.D. & P.M.		TRAV.	3	1,478	BRINE	PROD. BRINES	18,250	1		13,869	27,010	30	2,895,391			
ORDON	MASON	B.D. & P.M.		TRAV.	1	1,692	BRINE	PROD. BRINES	34,600	1		2,463	34,600	3	67,609			

TABLE 7.— FLUID INJECTION INTO PRODUCING FORMATIONS IN OIL FIELDS-1963, Continued (Sheet 2 of 2)

PERMATER	MASON-OCEANA	UNIT, WTR. FLOOD	1960	U. TRAV.	8	1,595	FRESH WTR.	GLACIAL DRIFT	280,680	6		31,912	661,590	30(Units)	3,618,889	
PERMATER	MASON-OCEANA	UNIT, WTR. FLOOD	1960	DD.	10	2,688	FRESH WTR.	GLACIAL DRIFT	201,487	6		40,616	125,590	44(Units)	2,698,481	1,010,713
PFCOMING	RAY	B.D. & P.M.		DD.	12	2,898	BRINE	PROD. BRINES	65,700	1		10,913	66,065	2	826,032	
PORTER	MIDLAND	B.D. & P.M., COOP.		DD.	12	3,845	BRINE	PROD. BRINES	2,580,915	16		176,688	3,495,605	153	47,719,170	4,992,995
PROSPER	MISSAUKEE	B.D. & P.M.		DD.	3	3,837	BRINE	PROD. BRINES	949,000	1		23,720	949,000	7	1,631,449	
PULLMAN, EAST	ALLEGAN	B.D. & P.M.		TRAV.	2	1,131	BRINE	PROD. BRINES	53,655	4		5,527	55,845	13	348,177	
REED CITY	OSCEOLA	UNIT, GAS IN OLD RESERVOIR	1963	DD.-R.C.	10	3,585	BRINE GAS	M.C. SYSTEM PROD. BRINES	705,269	10(Units)		106,543	2,330,160	47	38,461,628	16,257,876
REEMAN	NEWAYCO	B.D. & P.M.		TRAV.	2	2,099	BRINE	PROD. BRINES	91,250	1		1,944	91,250	1	44,076	
REYNOLDS	MONTCALM	B.D. & P.M., COOP.	1956	DD.-R.C.	3	3,343	BRINE	PROD. BRINES	1,470,990	7		170,893	None	33	3,518,210	408,555
RIVERSIDE	MISSAUKEE	B.D. & P.M.		DD.	6	3,950	BRINE	PROD. BRINES	51,100	1		8,475	51,100	3	90,232	
RIVERVIEW	MASON	B.D. & P.M.		TRAV.	6	1,650	BRINE	PROD. BRINES	45,625	1		4,395	45,625	5	229,149	
ROCKFORD	KENT	B.D. & P.M.		TRAV.	3	2,204	BRINE	PROD. BRINES	29,375	1		9,223	27,375	5	486,530	
ROSE CITY	OSHWAGO	COOP. WTR. FLOOD	1955	RICH.	9	4,125	FRESH WTR.	GLACIAL DRIFT	40,782	1		151,519	699,897	113	4,651,923	4,545,737
ROSE LAKE	OSCEOLA	B.D. & P.M.		TRAV.	5	3,140	BRINE	PROD. BRINES	94,900	1		26,460	151,110	6	1,609,232	
SALEN	ALLEGAN	B.D. & P.M.		TRAV.	8	1,283	BRINE	PROD. BRINES	48,910	8		52,456	116,800	101	8,758,198	
SAULE	LAKE	B.D. & P.M.		TRAV.	2	2,111	BRINE	PROD. BRINES	365,000	1		1,259	365,000	2	143,020	
SCOTTVILLE	MASON	B.D. & P.M.		TRAV.	3	1,650	BRINE	PROD. BRINES	452,600	2		120,617	452,600	16	208,847	
SHERMAN	ISABELLA	B.D. & P.M.		DD.	3	3,650	BRINE	PROD. BRINES	77,380	2		7,988	91,980	5	4,682,605	641,217
SKEELS	CLARE-GLADWIN	B.D. & P.M.		DD.	3	3,840	BRINE	PROD. BRINES	43,800	1		11,098	43,800	3	904,525	
ST. HELEN	ROSCOMMON	UNIT, WTR. FLOOD	1958	RICH.	11	4,180	FRESH WTR.	GLACIAL DRIFT	585,989	21	3,151,610	73,922	1,002,914	65	3,488,267	5,679,430
STONY LAKE	OCEANA	B.D. & P.M.		TRAV.	19	1,630	BRINE	PROD. BRINES	2,664,500	2		31,910	2,664,500	26	7,393,226	
SUMNER	GRACIOT	B.D. & P.M.		TRAV.	1	3,366	BRINE	PROD. BRINES	65,700	1		71,043	275,940	26	859,799	
SULLIVAN	OSCEOLA	B.D. & P.M.		DD.	14	3,925	BRINE	PROD. BRINES	277,400	1		4,447	277,400	1	1,168,234	
VERNON	ISABELLA	B.D. & P.M.		DD.	3	3,755	BRINE	PROD. BRINES	1,067,625	2		11,231	1,067,625	6	4,923,879	
WILEY	MASON	B.D. & P.M.		TRAV.	5	1,660	BRINE	PROD. BRINES	27,375	3		99,612	27,375	14	119,909	
WINDFIELD	CLARE	B.D. & P.M.		DD.	3	3,794	BRINE	PROD. BRINES	319,375	2		22,892	611,375	6	4,615,711	
WISER	ISABELLA	UNIT, WTR. FLOOD	1960	DD.	11	3,700	FRESH WTR. & BRINE	GLACIAL DRIFT	894,310	9	2,700,880	33,668	533,995	23	3,702,355	

B.D. & P.M.
COOP. OPERATOR OR ORGANIZATION
UNIT.
WTR. FLOOD

M.C. SYSTEM
PROD. BRINES
PROD. GAS

SOURCE OF INJECTION FLUID

DD.-R.C.
RICH.
RICHFIELD

PAY ZONE

TABLE 8.— ABANDONED OIL FIELDS (Sheet 1 of 3)

FIELD NAME AND COUNTY	YEAR OF DISC.	FORMATION	PAY ZONE		DAY L. A.C.F.	DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF OIL WELLS	OIL PRODUCTION IN BARRELS		RECOVERY IN BARRELS (FIELDED)	BLINE PRODUCTION	
			DEPTH	TRUCK LOADS					YEAR OF ABANDONMENT	CUMULATIVE		SUBSURFACE	DISPOSAL
ALAMO	1949	TRAVERSE	1310	2 L	38.0	TRAVERSE	1420	16	1962	27,945	160	172	
ALLAMAIN	1937	TRAVERSE	1963	2 L	38.0	CLACKMINSTAN	2987	18	1961	15,577	180	87	
ASHELAND, SEC. 8	1959	TRAVERSE	2238	1 L		TRAVERSE	2239	1	1962	267	10	27	
BANKOR	1939	TRAVERSE	1002	2 L	29.5	TRENTON	2952	65	1959	913,965	610	1,531	
BEAVER, SEC. 31	1954	BEREA	2413	16 SL		STAVANIA	4754	1	1961	96	10	93	
BERONA, SEC. 13	1949	TRAVERSE	1640	3 L		DETROIT RIVER	2276	2	1956	4,951	20	248	
BIRCH RUN	1934	BEREA	1530	5 S	43.3	DUNDEE	2646	26	1951	215,876	250	864	
BISHOP	1950	TRAVERSE	2226	3 L		TRAVERSE	2238	7	1952	33,327	110	303	
BLOOMER, SEC. 18	1936	TRAVERSE	2717	6 L		DUNDEE	3138	1	1936	814	10	81	
BREEDSTVILLE	1943	TRAVERSE	1051	2 L	33.0	DETROIT RIVER	1445	32	1961	285,584	300	952	
BUCKETS, SOUTH	1956	TRAVERSE	2891	3 D	42.0	DETROIT RIVER	4509	7	(PRODUCTION COMBINED WITH BICKETS, SOUTH, DUNDEE)				
BUSHKILL	1935	DUNDEE	3105	2 L	33.9	DUNDEE	3125	1	1939	4,035	10	403	
BUTMAN	1950	TRAVERSE	2709	2 L		STAVANIA	5027	1	1953 (PRODUCTION COMBINED WITH BUTMAN DUNDEE & RICHFIELD)				
CASCO	1940	TRAVERSE	1095	1.5 L	36.6	TRAVERSE	1115	9	1959	17,382	50	348	
CEMAR CREEK, SEC. 23 MUSKOGON	1949	TRAVERSE	1951	2 L		DUNDEE	2453	1	1951	1,223	10	120	
CHERRY GROVE	1952	TRAVERSE	3145	4 D		DUNDEE	3998	1	1953	4,814	10	481	
CHESHIRE	1947	TRAVERSE	1289	2 L	35.0	TRAVERSE	1348	3	1958	9,290	30	310	
CHESTER, SEC. 15	1951	SALINA	6610	5 D	47.0	NEAGARAN	6670	1	1956	2,752	40	69	
CLEAR LAKE	1950	TRAVERSE	1380	1 L		TRAVERSE	1399	14	1953	17,490	140	125	
CLINTON	1953	TRAVERSE	986	2 D		TRENTON	3606	2	1962	2,093	20	105	
COFFEE LAKE	1946	TRAVERSE	1128	1 L		TRAVERSE	1130	11	1954	34,649	110	315	
COLLMANERS, SOUTH	1951	DUNDEE	3739	4 D		DUNDEE	3743	1	1959	10,941	20	547	
CONSFORD, SEC. 5	1949	TRAVERSE	1430	3 L		TRAVERSE	1480	2	1952	974	20	49	
CORCORAN	1953	TRAVERSE	1627	1 L		SALINA	2417	5	1958	6,437	50	129	
CRANDERY LAKE	1953	DETROIT RIVER	4601	16	48.8	RICHFIELD	5223		1962 (PRODUCTION COMBINED WITH CRANDERY LAKE, DUNDEE-TRAVERSE & RICHFIELD)				
CROOKED LAKE	1949	TRAVERSE	1278	1 L		TRAVERSE	1312	2	1956	115,452	40	2,886	
CROYON	1951	TRAVERSE	2543	2 L		SALINA	3993	10	1958	91,678	200	458	
CRUMP	1950	DUNDEE	3294	7 L		DUNDEE	3354	1	1951	1,043	10	104	
DALLAS	1942	TRAVERSE	2482	2 L		DETROIT RIVER	2534	3	1948	3,085	40	770	
DAY	1946	DUNDEE	3337	2 L		DUNDEE	3387	2	1954	16,239	20	812	
DOUGLASS, SEC. 3	1954	TRAVERSE	3025	8 L		DUNDEE	3666	1	1956	3,155	20	158	
EAST NORWICH	1942	DUNDEE	3082	4 L	44.2	STAVANIA	4632	1	1947 (PRODUCTION COMBINED WITH EAST NORWICH RICHFIELD)				
EDWARDS	1944	TRAVERSE	2410	1 L					1944 (PRODUCTION COMBINED WITH HAMILTON RICHFIELD)				
EDWARDS	1951	DUNDEE	3362	10 L		STAVANIA-BOIS BLANC	5860	1	1954	4,941	10	494	
EEBA	1927	TRAVERSE	2440	2 L	47.0	DUNDEE	3044	8	1962	42,925	90	477	
EKLAND	1946	DUNDEE	2653	14 L		STAVANIA	3735	2	1947	1,546	20	77	
ENSLLEY	1954	TRAVERSE	2439	2 L		DETROIT RIVER	3018	6	1959	70,415	120	587	
FREDSON	1954	TRENTON	3923	20 D	43.5	CAMERO-ORD.	4691	1	1956	7,217	40	180	
FREEMONT	1938	DUNDEE	3656	4 D		DUNDEE	3700	2	1956	3,045	30	102	
FREEMONT, SEC. 32	1957	TRAVERSE	3958	2 L		DUNDEE	3619	1	1958	892	10	89	
FREEMONT	1946	DUNDEE	3125	1 L		DUNDEE	3150	2	1947	2,000	20	100	
FREEMONT	1949	TRAVERSE	2031	3 L		DETROIT RIVER	2430	1	1951	19,229	10	1,923	
GAFFIELD	1946	DETROIT RIVER	5013	10 S		STAVANIA	5307	1	1948	13,769	40	344	
GENEVA	1935	DUNDEE	3678	2 L	42.7	DUNDEE	3690	7	1960	62,684	70	895	

TABLE 8.— ABANDONED OIL FIELDS, Continued (Sheet 2 of 3)

GEORSON	1950	DUNDEE	2942	4 L		DETROIT RIVER	4343	1	1952 (PRODUCTION COMBINED WITH GIBSON TRAVERSE)				
GREENWOOD, SEC. 11	1935	TRAVERSE	2036	4 L				12	1927	51,892	130	399	
GROOT	1952	DUNDEE	4054	10 L		RICHFIELD	5432	1	1953	1,324	10	132	
HAMILTON	1940	DUNDEE	3825	4 L		DETROIT RIVER	5228	5	1957 (PRODUCTION COMBINED WITH GROOT RICHFIELD)				
HAMILTON	1940	DUNDEE	4041	10 L	41.8	RICHFIELD	5395	3	1959 (PRODUCTION COMBINED WITH HAMILTON RICHFIELD)				
HAMILTON	1952	TRAVERSE	4224	20 D	46.2	CAMERIAN	6622	1	1958	60,532	40	1,513	
HART	1933	TRAVERSE	1911	4 D	34.0	ST. FEUER	5531	17	1936	116,275	150	775	
HARTON	1941	DUNDEE	3945	2 L		DUNDEE	4000	4	1948	139,272	160	870	
HARTON	1946	TRAVERSE	1103	1 L	56.0	DETROIT RIVER	1385	16	1960	68,292	160	427	
HARTON	1945	TRAVERSE	1468	2 L		TRAVERSE	1470	1	1946	559	10	56	
HARTON	1944	TRAVERSE	1576	1.2 L		NEAGARAN	3157	17	1961	124,401	300	415	
HARTON	1939	TRAVERSE	1633	4 L	41.5	DETROIT RIVER	1965	10	1956	145,513	110	1,323	
HARTON	1941	TRAVERSE	1571	2 L	41.5	SALINA	3140	31	1951	388,777	370	1,051	
HUBBARDSON	1947	DUNDEE	3028	5 L		DUNDEE	3072	5	1959	48,479	50	970	
LACONA	1946	TRAVERSE	1110	2 L		TRAVERSE	1208	11	1955	51,504	120	433	
LACONA	1935	BEREA	2473	4 S	39.0	DUNDEE	3029	2	1945	7,070	20	353	
LACONA	1948	TRAVERSE	2548	1 L		TRAVERSE	2570	1	1950	1,036	10	104	
LEE	1941	TRAVERSE	1170	1 L		TRAVERSE	1207	6	1952	3,030	60	51	
LEE, SOUTH	1949	TRAVERSE	1171	1 L		TRENTON	2860	12	1953	91,117	120	759	
LEE	1940	BEREA	1170	3 L		TRAVERSE	1904	2	1946	6,253	20	313	
LEWIS	1948	TRAVERSE	1617	1 L	36.0	ST. FEUER	4290	2	1960	2,188	20	109	
LEWIS	1949	DUNDEE	2210	3 L	32.2	RICK CITY	2347	3	1959				
LEWIS	1951	TRAVERSE	1745	2.5 DL	56.1			11	1959	105,807	110	622	
LEWIS	1934	DUNDEE	2924	4 L		DUNDEE	3036	1	1956	8,392	10	839	
LEWIS	1946	DUNDEE	3477	3 D	39.6	DUNDEE	3500	1	1947	36,069	10	3,607	
LEWIS	1946	DUNDEE	2960	2 L		DUNDEE	3057	1	1946	1,906	10	191	
LEWIS	1943	TRENTON	2635	4 L		TRENTON	2983	2	1949	2,349	10	117	
LEWIS	1940	TRAVERSE	645	7 L	21.5	TRENTON	2089	7	1958	29,672	70	424	
LEWIS	1930	TRAVERSE	660	2 L	37.0	TRENTON	2382	2	1953	1,424	20	71	
LEWIS	1941	TRAVERSE	1895	2 L		DUNDEE	2674	1	1946 (PRODUCTION COMBINED WITH OTTAVILLE DUNDEE AND BEREA)				
LEWIS	1938	TRAVERSE	1532	1 L		TRAVERSE	1600	6	1962	2,290	100	23	
LEWIS	1950	TRAVERSE	1456	1 L		TRAVERSE	1457	4	1958	681	40	17	
LEWIS	1955	TRAVERSE	(REFER TO ACTIVE FIELDS)						(COMBINED WITH OTTO, SEC. 32)				
LEWIS	1958	BEREA	1448	9		TRAVERSE	1860	2	1960 (COMBINED WITH OTTO, SEC. 32)				
LEWIS	1940	TRAVERSE	1553	4 L		TRAVERSE	1578	1	1944	6,370	10	637	
LEWIS	1958	TRAVERSE	2151	1 L		DETROIT RIVER	3790	1	1960 (PRODUCTION COMBINED WITH PINNINGTON DUNDEE)				
LEWIS	1942	DUNDEE	3480	2 L		DUNDEE	3685	2	1956	13,285	90	148	
LEWIS	1956	TRAVERSE	2890	5 L				1	1958	760	10	76	
LEWIS	1886	DUNDEE	575	20 L		CAMERIAN	4948	21	NO RECORD				
LEWIS	1954	RICHFIELD	5128	21 D		RICHFIELD	5254	1	1957	7,088	40	177	
LEWIS	1949	TRAVERSE	1185	1 L		PAISS ISLAND	1942	9	1951	26,840	90	298	
LEWIS	1950	TRAVERSE	1655	3 L		TRAVERSE	1678	8	1959	12,745	80	159	
LEWIS	1936	TRAVERSE	2739	10 L	46.0	DUNDEE	3264	1	1936	1,871	10	187	
LEWIS	1954	TRENTON	2445	4 D		TRENTON	2491	1	1962	47	10	5	
LEWIS	1937	DUNDEE	3437	5 L	38.0	DUNDEE	3500	2	1941	12,024	20	601	
LEWIS	1951	TRAVERSE	2204	1 L		TRAVERSE	2205	1	1955	628	10	63	
LEWIS	1939	TRAVERSE	3217	4 L		DUNDEE	3835	3	1947	1,364	20	68	
LEWIS	1952	TRAVERSE	1951	2 L									

TABLE 8.— ABANDONED OIL FIELDS, Continued (Sheet 3 of 3)

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEEPEST TESTED	DEPTH FEET	NO. END	NUMBER OF OIL WELLS		FROM AT END	YEAR OF ABANDONMENT	OIL PRODUCTION IN BARRELS		DRILLED ACRES	REMARKS PER ACRE (FOOTAGE)	BRINE PRODUCTION		BBLA PER DAY TOTAL PRODUCTION
			DEPTH	LITH. THICK				COMPT. IN	ADV. IN			CUMULATIVE	SURFACE					
TROBIE	1952	TRAVERSE	2379	2 L	DETROIT RIVER	2900	7				1956	31,558	140	225				
VICTORY, SEC. 10	1957	TRAVERSE	1603	9 L	TRAVERSE	1616	1				1958	500	10	58				
WEARE, SEC. 14	1952	TRAVERSE	1674	1 L	DUNDEE	2217	1				1954	1,056	10	110				
WEST BRANCH	1933	TRAVERSE	1796	2 L	CAMERO-ORD.	11,012	1				1956	(PRODUCTION COMBINED WITH WEST BRANCH DUNDEE)						
WHEATLAND	1945	DUNDEE	3690	2 L	DETROIT RIVER	3849	6				1960	141,631	100	1,416				
WILLET RIVER	1950	DUNDEE	2053	2 L	DUNDEE	2055	1				1951	7,661	20	353				
ZEEGLAND	1942	TRAVERSE	1514	3 L	NIAGARAN	3052	20				1962	310,085	400	775				
	1958	SALINA	2792	5 D			1				1962	1,666	10	161				
ZEEGLAND, SEC. 26	1954	TRAVERSE	1491	1 L	DETROIT RIVER	2215	3				1956	4,437	30	148				
												4,170,223						

101 ABANDONED OIL FIELDS AND OIL POOLS

MISCELLANEOUS PRODUCTION FROM OIL FIELDS AND ABANDONED POOLS WITH KNOWN ACCUMULATIONS 5,739
 CUMULATIVE PRODUCTION FROM ABANDONED FIELDS 4,170,223 BARRELS

TABLE 9.— MICHIGAN GAS FIELDS-1963 (Sheet 1 of 3)

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF GAS WELLS				GAS PRODUCTION IN MCF		DRILLED ACRES
			DEPTH	LITH. THICK			TO END 1963	COMP. IN 1963	ABAND. IN 1963	PROD. AT END 1963	1963	CUMULATIVE	
ADAMS, SEC. 8	1962	TRAVERSE	1420	4 L	PRAIRIE DU CHIEN	4169	1	0	0	1	14,404	17,656	20
ALPINE	1963	NIAGARAN	3151	25 D	CLINTON	3470	1	1	0	1	SHUT IN	-	80
ASHTON	1946	MICHIGAN STRAY	1215	2 S	REED CITY	3779	3	0	0	1	SHUT IN	205,680	400
ASHTON, EAST	1962	MICHIGAN STRAY	1297	5 S	REED CITY	3750	1	0	0	1	SHUT IN	0	160
BELLE RIVER MILLS	1961	SALINA-NIAGARAN	2215	305 D	CLINTON	2694	23	5	0	23	7,367,713	9,346,579	760
BEVENS LAKE	1951	DUNDEE	3536	11 L	REED CITY	3771	2	0	0	1	30,951	633,315	320
	1952	MICHIGAN STRAY			(REFER TO ABANDONED GAS FIELDS)								
BIG RAPIDS	1943	MICHIGAN STRAY	1145	7 S	REED CITY	3595	9	0	2	1	11,156	2,356,884	1,440
BLISSFIELD	1963	TRENTON-BLK. RIVER	2686	9 D	GLENWOOD	3251	1	1	0	1	SHUT IN		40
BOYD	1952	SALINA-NIAGARAN			(COMBINED WITH OIL FIELD DATA - REFER TO OIL WELL GAS PRODUCTION)								
CAL-LEE	1962	NIAGARAN	3036	8 D	PRAIRIE DU CHIEN	4912	2	0	0	2	SHUT IN		120
CAPAC	1961	NIAGARAN	4505	6 D	NIAGARAN	4634	19	11	0	19	(17 SHUT IN) 132,628	132,628	2,720
CAPAC, NORTH	1962	NIAGARAN	4558	8 D	(COMBINED WITH CAPAC)								
CAPAC, SOUTH	1961	NIAGARAN	4294	15 D	(COMBINED WITH CAPAC)								
CEDAR	1945	MICHIGAN STRAY	1490	7 S	SYLVANIA	5160	5	0	1	4	14,252	1,368,065	800
CHERRY GROVE, SEC. 13	1957	MICHIGAN STRAY	1326	35 S	DUNDEE	4080	2	1	0	2	SHUT IN		320
CHESTERFIELD	1959	NIAGARAN	2504	14 D	CLINTON	2707					(COMBINED WITH OIL FIELD DATA - REFER TO OIL WELL GAS PRODUCTION)		
CHINA BELLE	1963	NIAGARAN	2365	15 D	NIAGARAN	2451	2	2	0	2	SHUT IN		80
CHINA, SOUTH	1961	SALINA-NIAGARAN	2324	14 D	CLINTON	2743	11	3	0	11	(9 SHUT IN) 130,324	130,324	440
CLARE CITY	1937	MICHIGAN STRAY	1290	5 S	DUNDEE	3865	8	0	0	1	DOMESTIC USE	2,294,990	720
CLAYTON	1936	BEREA	1180	10 S	SYLVANIA	4463	31	0	1	17	DOMESTIC USE	5,111,048	1,560
COLFAX	1945	MICHIGAN STRAY	1240	8 S	DETROIT RIVER	4043	4	0	0	1	DOMESTIC USE	485,844	640
	1957	DUNDEE-REED CITY	3474	9 D			1	0	0	1	SHUT IN	0	160
COON CREEK	1963	NIAGARAN	3034	20 D	NIAGARAN	3093	2	2	0	2	SHUT IN	0	80
COTTRELLVILLE	1959	SALINA-NIAGARAN	2320	10 D	CLINTON	2511					(COMBINED WITH OIL FIELD DATA - REFER TO OIL WELL GAS PRODUCTION)		
CRYSTAL VALLEY	1946	DUNDEE	2400	7 L	TRENTON-BLK. RIVER	5985	4	0	1	1	SHUT IN		160
	1961	SALINA	4102	10 D			1	0	0	1	SHUT IN	3,176	40
DEEP RIVER	1936	BEREA	1490	10 S	SYLVANIA	4311	12	0	0	3	DOMESTIC USE	1,609,812	1,520
DORR	1957	DETROIT RIVER	1918	1 D	NIAGARAN	3319	1	0	0	1	SHUT IN	0	160
DORR, SEC. 17	1951	"BEREA"	953	8 D	TRAVERSE	1642	1	0	0	1	DOMESTIC USE	0	40
DORR, SEC. 21	1940	"BEREA"	957	1 D	TRAVERSE	1687	1	0	0	1	DOMESTIC USE	0	40

TABLE 9.— MICHIGAN GAS FIELDS-1963, Continued (Sheet 2 of 3)

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEPRESSY ZONE TESTED	DEPTH IN FEET	NUMBER OF GAS WELLS				GAS PRODUCTION IN MCF		DRILLED ACRES	
			DEPTH THICK	LITH. OLOGY			TO END 1963	COMP. IN 1963	ABAND. IN 1963	PROD. AT END 1963	1963	CUMULATIVE		
EDEN	1958	TRAVERSE	1960	7	L	CAMBRIAN	7249	1	0	0	1	SHUT IN	0	160
EDENVILLE, SEC. 5	1957	SAGINAW GROUP	382	12	S	DUNDEE	4028	3	0	0	2	SHUT IN	0	160
EBELSTON	1951	"BEREA"	1120	5	D	DUNDEE	2282	7	0	0	1	10,626	276,252	1,120
ENSLEY	1958	MARSHALL	826	5	S	DETROIT RIVER	3018	8	0	0	8	(5 SHUT IN)118,527	855,051	1,280
ENTERPRISE, SEC. 32	1953	MICHIGAN STRAY	1986	5	S	DETROIT RIVER	4200	2	0	0	2	DOMESTIC USE	0	320
FALMOUTH	1962	MICHIGAN STRAY	1279	3	S	REED CITY	4035	8	0	0	8	(1 SHUT IN) 62,442	62,442	1,280
FERRY, SEC. 25	1961	"BEREA"	1310	5	D	TRAVERSE	2120	1	0	0	1	DOMESTIC USE	0	40
FILLMORE	1959	SALINA	2632 2792	16 16	D	NIAGARAN	3045	11	0	0	11	250,280	250,280	1,600
FORK, NORTH	1956	MICHIGAN STRAY	1433	19	S	REED CITY	3823	1	0	0	1	DOMESTIC USE	60,178	160
FORK, WEST	1943	MICHIGAN STRAY	1490	5	S	SYLVANIA	5198	17	0	0	2	8,177	2,378,244	2,880
FORWARD	1961	MICHIGAN STRAY	1393	7	S	DETROIT RIVER	5225	6	0	0	6	(2 SHUT IN) 28,658	28,658	960
FOWLerville	1961	SALINA-NIAGARAN	3880	45	D	PRAIRIE DU CHIEN	5685	2	0	0	2	SHUT IN	0	320
FREMONT, SEC. 32	1958	MICHIGAN STRAY	1264	6	S	DUNDEE	3619	1	0	0	1	SHUT IN	377	160
HEADQUARTERS	1945	MICHIGAN STRAY	1340	6	S	SYLVANIA	5929	12	0	0	2	(1 SHUT IN) 3,522	1,725,554	1,760
HEATH, SEC. 21	1960	SALINA	2492	19	D	SALINA	2789	1	0	0	1	44,486	58,644	160
HILLIARDS	1958	SALINA	2938	30	D	NIAGARAN	3157	6	0	0	6	(2 SHUT IN)228,690	1,501,835	960
ITHACA	1943	MICHIGAN STRAY	900	16	S	DUNDEE	3419	5	0	0	1	SHUT DOWN	1,520,995	800
LENOX	1960	SALINA-NIAGARAN	2734	46	D	CLINTON	3018	8	1	0	8	(1 SHUT IN)867,198	1,794,349	300
LEONARD	1963	NIAGARAN	4245	21	D	CLINTON	4450	1	1	0	1	SHUT IN	0	40
LOGAN	1941	RICHFIELD	3260	5	S	RICHFIELD	3330	2	0	0	2	SHUT IN	0	80
LOGAN	1944	BEREA	1420	6	S	RICHFIELD	4537	13	0	0	12	SHUT IN	0	2,080
LYNDON, SEC. 7	1958	TRAVERSE & DETROIT RIVER	1311	6	D	TRENTON	4702	5	0	0	5	15,596	15,596	800
LYNN	1962	NIAGARAN	4708	4	D	NIAGARAN	4712	(COMBINED WITH CAPAC)						320
MAPLE VALLEY, SEC. 16	1958	MICHIGAN STRAY	1120	5	S	REED CITY	3365	1	0	0	1	SHUT IN	0	160
MCKAY	1929	MICHIGAN STRAY	1400	3	S	DETROIT RIVER	4055	9	0	0	2	DOMESTIC USE	712,626	360
MARINE CITY, SOUTH	1962	SALINA	2100	4	D	NIAGARAN	2251	7	4	0	7	4 SHUT IN, 3 PRODUCING OIL-REFER TO OIL TABLE	280	280
MARTINY	1934	MICHIGAN STRAY	1370	2	S	DETROIT RIVER	3807	5	0	0	4	75,543	995,207	680
MONTAGUE	1953	SALINA-NIAGARAN	3734	80	D	TRENTON	4517	3	0	0	2	SHUT IN	41,482	480
MORTON	1946	MICHIGAN STRAY	1279	2	S	DUNDEE	3691	2	0	0	1	DOMESTIC USE	118,377	320
MUSKOGON	1927	TRAVERSE-DUNDEE-DETROIT RIVER	1640 2025	6	L	ST. PETER	4754	-	0	0	2	DOMESTIC USE	7,237,438	1,520
NEWARK	1948	MICHIGAN STRAY	979	5	S	DUNDEE	3255	6	0	0	4	SHUT IN	441,757	960

TABLE 9.— MICHIGAN GAS FIELDS-1963, Continued (Sheet 3 of 3)

NORTH MORENWI	1962	TRAVERSE	638	2	D	PRAIRIE DU CHIEN	3284	47	31	0	47	SHUT IN	0	1,920
NORTH STAR	1940	MICHIGAN STRAY	870	7	S	DUNDEE	3100	1	0	0	1	SHUT IN	534,625	40
NORTHVILLE	1937	SALINA-NIAGARAN	2905	2	D	CAMERO-ORD.	5850	8	0	0	7	85,590	3,332,707	1,200
OTSEGO	1954	TRENTON	4395	70	D	DUNDEE	3949	25	0	0	25	890,014	11,447,119	2,320
PARIS	1940	ANTRIM	1385	4	SH	DUNDEE	3949	7	0	0	4	(1 SHUT IN) 43,213	286,789	680
PARTELLO	1955	DUNDEE	(REFER TO ABANDONED GAS FIELDS)											
PETERS	1951	MICHIGAN STRAY	1217	5	S	REED CITY	3545	2	0	0	1	258	345,190	160
PINE, SECS. 9 & 17	1959	SALINA	3192	30	D	TRENTON-ELK-RIVER	4905	2	0	0	2	SHUT IN	0	160
PIONEER	1931	TRAVERSE	2386	47	D	CLINTON	2842	(COMBINED WITH OIL FIELD DATA -				REFER TO OIL WELL GAS PRODUCTION		
PROSPER	1948	MICHIGAN STRAY	1251	1	S	DUNDEE	3469	2	0	0	2	SHUT IN	37,272	80
PULLMAN, EAST	1961	SALINA	3025	5	L	DUNDEE	3583	1	0	0	1	SHUT DOWN	0	40
PUTTYGUFF	1960	SALINA-NIAGARAN	1269	6	S	RICHFIELD	5254	3	0	0	2	LEASE FUEL	152,882	480
RAVENNA	1936	"BEREA"	1645	7	D	TRENTON	3020	3	0	0	3	SHUT IN	0	480
RAVENNA, SEC. 27	1953	"BEREA"	2423	60	D	NIAGARAN	2774	11	1	0	11	(1 SHUT IN)2,697,774	5,325,940	440
REDDING	1940	MICHIGAN STRAY	1205	10	D	DUNDEE	2306	30	0	0	4	DOMESTIC USE	1,432,593	4,480
RICHLAND, SEC. 27	1963	MICHIGAN STRAY	1182	6	D	DUNDEE	2500	3	0	0	2	DOMESTIC USE	32,243	480
ROMULUS	1955	SALINA	2945	101	D	NIAGARAN	3273	11	6	0	11	(5 SHUT IN)829,834	829,834	420
SALEM	1937	SALINA	1475	3	S	SYLVANIA	5462	-	0	0	5	LEASE FUEL	32,692	160
SHERIDAN	1958	DETROIT RIVER	1247	1	S	DUNDEE	3530	1	1	0	1	SHUT IN	0	160
SURREY	1945	MICHIGAN STRAY	1980	20	D	NIAGARAN	2259	2	0	0	1	SHUT IN	45,045	320
TAYMOUTH, SEC. 11	1957	TRAVERSE	2725	2	D	TRENTON	4347	(REFER TO DEVELOPED GAS STORAGE RESERVOIRS)						
TURK LAKE	1947	MICHIGAN STRAY	1969	6	D	DUNDEE	3904	3	0	0	3	8,277	36,549	320
WALKER	1939 1940	"BEREA" TRAVERSE-DET. RIVER	1375	2	S	DUNDEE	3904	5	0	0	1	DOMESTIC USE	271,374	480
WHEATLAND	1947	MICHIGAN STRAY	1460	3	S	DUNDEE	4000	-	0	0	1	DOMESTIC USE	12,667	160
WISE	1940	MICHIGAN STRAY	2085	6	L	TRAVERSE	2135	1	0	0	1	DOMESTIC USE	0	160
YANKEE	1963	MICHIGAN STRAY	1081	4	S	DETROIT RIVER	3413	4	0	0	2	DOMESTIC USE	217,584	640
ZEELAND	1946	"BEREA"	1150 2250	8 2	D	ST. PETER	5222	14	0	0	9	19,143	1,157,329	440
			1399	3	S	DUNDEE	3740	4	0	0	3	12,869	483,114	160
			1250	5	S	SYLVANIA	5205	-	0	0	6	5,064	1,693,599	1,280
			2620	20	D	CLINTON	2829	2	2	0	2	SHUT IN	0	80
			945	9	D	NIAGARAN	3388	7	0	0	2	DOMESTIC USE	0	280
								72+1 RW	5		367*	14,020,468	71,657,669	

80 PRODUCEABLE DRY GAS FIELDS AT END OF 1963

TOTAL OF 367 WELLS INCLUDE 203 SHUT IN AND NONCOMMERCIAL WELLS

14,020,468 MCF GAS PRODUCTION IN 1963.

TABLE 10.— MISCELLANEOUS AND ABANDONED GAS FIELDS (Sheet 1 of 2)

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF GAS WELLS			GAS PRODUCTION IN MCF		DRIILLED ACRES	
			DEPTH	THICK			LITH. OLOGY	TO END 1963	COMP. IN 1963	ABAND. IN 1963	PROD. AT END 1963		YEAR OF ABANDONMENT
ADAMS, NORTH	1942	BEREA	1605	1	S	DUNDEE	3101		1			1,280	40
ALBION	1941	TRAVERSE	1610	7	L	ST. PETER	4510		4			6,114	120
ALCONAC	1947	AMTRIM	302	6	SH	CABOT HEAD	2504		2			7,830	80
BEVENS LAKE	1952	MICHIGAN STRAY	1244	6	S	REED CITY	3771		2			477,791	320
BIG PRAIRIE	1944	MICHIGAN STRAY	1030	5	S	REED CITY	3322		1			152,864	160
BIG PRAIRIE, SEC. 33	1947	DUNDEE	2896	2	L	DUNDEE	2900		1			62,324	40
CANNON CREEK	MISSAUKIEP-KALKASKA	TRAVERSE	2695	11	L	RICHFIELD	4810		21			851,369	3,360
CEDAR CREEK	1940	"BEREA"	1125	7	D	DUNDEE	2252		7			624,588	1,120
COOPERSVILLE	1939	"BEREA"	1240	5	D	TRAVERSE	1900		3			108,839	240
DAY	1934	MICHIGAN STRAY	1352	4	S	MARSHALL	1395		2			8,194	80
DIAMOND CRYSTAL SALT	1927	NIAGARAN	2483	17	D	NIAGARAN	2500		1			136,445	40
DOUGLASS	1943	MICHIGAN STRAY	1190	5	S	DUNDEE	3423		4			184,806	640
ELBA	1928	MICHIGAN STRAY	670	10	S	DUNDEE	3700		10			246,058	520
FORK, EAST	1942	MICHIGAN STRAY	1480	5	S	DUNDEE	3865		4			102,708	640
FREMONT	1941	MICHIGAN STRAY	1235	5	S	DUNDEE	3556		5			381,330	800
GARFIELD	1946	DETROIT RIVER	5013	8	S	SYLVANIA	5307		1			535,811	40
GLAMORE	1945	MICHIGAN STRAY	1560	3	S	DUNDEE	4091		6			203,312	520
GOODWELL, EAST	1945	MICHIGAN STRAY	1190	4	S	DETROIT RIVER	3498		2			7,504	200
GRANT	1929	GLACIAL DRIFT	632	1	S	DUNDEE	2385		3			8,020	120
GREEN	1946	MICHIGAN STRAY	1250	3	S	REED CITY	3710		2			73,368	320
HAMILTON	1940	MICHIGAN STRAY	1270	3	S	DUNDEE	3897		4			275,606	440
HAMLIN	1952	SALINA-NIAGARAN	3950	7	D	CAMBRIAN	6622		1			0	160
HARRISON	1945	MICHIGAN STRAY	1675	3	S	SYLVANIA	5633		7			600,635	760
ISABELLA	1949	MICHIGAN STRAY	1454	7	S	DETROIT RIVER	3993		6			335,791	240
KAWKAWLIN	1941	SALINA	7760	16	D	ST. PETER	10,477		1			NO RECORD	
LEATON	1935	MICHIGAN STRAY	1240	2	S	DUNDEE	3710		5			185,609	400
MANISTEE	1959	SALINA	3616	94	D	NIAGARAN	4165		1			0	160
MECOSTA LAKE	1953	MICHIGAN STRAY	1314	12	S	DUNDEE	3690		2			84,071	320
MINERAL SPRINGS	1952	MICHIGAN STRAY	1397	8	S	DETROIT RIVER	3963		4			228,762	480
NORTHVILLE	1948	DUNDEE	788	2	L	CAMERO-ORD.	5850		4			0	640
PARIS	1949	DUNDEE	3404	5	L	REED CITY	3545		2			268,667	560

TABLE 10.— MISCELLANEOUS AND ABANDONED GAS FIELDS, Continued (Sheet 2 of 2)

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF GAS WELLS			GAS PRODUCTION IN MCF		DRIILLED ACRES	
			DEPTH	THICK			LITH. OLOGY	TO END 1963	COMP. IN 1963	ABAND. IN 1963	PROD. AT END 1963		YEAR OF ABANDONMENT
ST. CLAIR, SEC. 18	1953	SALINA-NIAGARAN	3567	2	D	CINCINNATI	3240		1			16,101	160
STIVAN	1941	MICHIGAN STRAY	1525	10	S	DETROIT RIVER	4034		1			80,714	40
VERNON	1939	MICHIGAN STRAY	1300	2	S	DETROIT RIVER	3907		25			1,464,249	920
VERNON, SEC. 31	1930	MICHIGAN STRAY	1500	1	S	DUNDEE	4055				(COMBINED WITH GILMORE)		
WOLF LAKE	1949	"BEREA"	1050	7	D	DETROIT RIVER	2250		2			99,756	320
												7,820,746	

36 MISCELLANEOUS AND ABANDONED GAS FIELDS.

7,820,746 MCF CUMULATIVE GAS PRODUCTION FROM MISCELLANEOUS AND ABANDONED GAS FIELDS

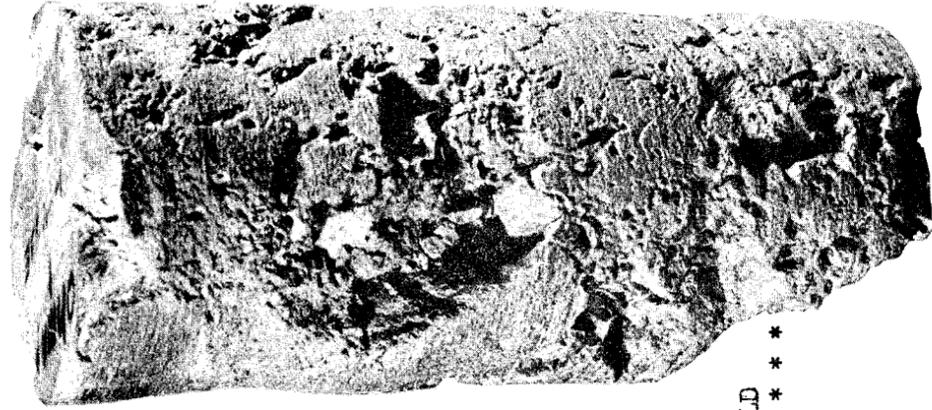
TABLE 11.— UNDEVELOPED GAS STORAGE RESERVOIRS

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF GAS WELLS			GAS PRODUCTION IN MCF		DRIILLED ACRES		
			DEPTH	THICK			LITH. OLOGY	TO END	COMP. IN	ABAND. IN	PROD. AT END		YEAR OF ABANDONMENT	CUMULATIVE
BROOMFIELD-DEERFIELD	1930	MICHIGAN STRAY	1355	5	S	SYLVANIA	4994		-	0	0	21	13,068,812	8,080
COLDWATER	1945	MICHIGAN STRAY	1390	10	S	SYLVANIA	5090		-	0	0	12	7,352,605	2,400
EDMORE-RICHLAND	1936	MICHIGAN STRAY	1300	8	S	DUNDEE	3700		-	0	0	13	8,919,285	6,800
EVART	1941	MICHIGAN STRAY	1410	7	S	DETROIT RIVER	4457		-	0	0	12	4,895,722	5,120
WINFIELD	1935	MICHIGAN STRAY	1125	8	S	DETROIT RIVER	3405		-	0	0	10	4,836,132	3,240
												68	39,072,556	

5 UNDEVELOPED GAS STORAGE RESERVOIRS

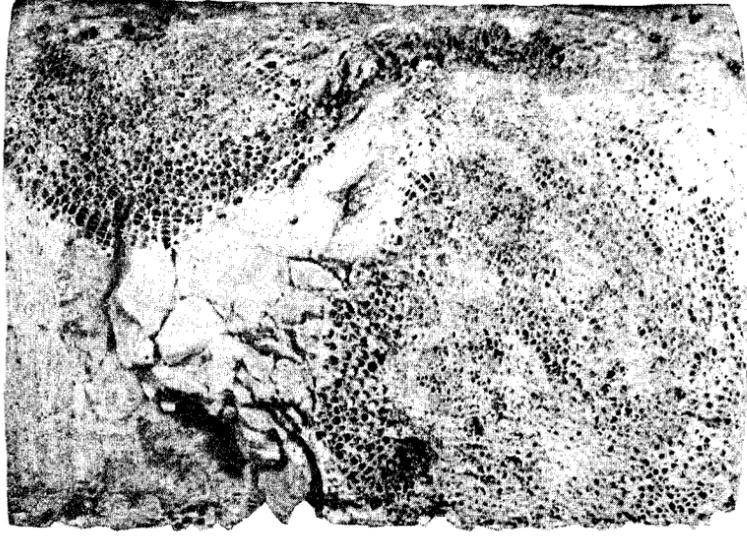
39,072,556 MCF CUMULATIVE GAS PRODUCTION FROM UNDEVELOPED GAS STORAGE RESERVOIRS.

GAS FIELD CORE SECTIONS REEF RESERVOIRS



RAY FIELD

A section of core from a field development well.
Sun Oil Company - Welser and Straub No. 1
NW NW Section 14, T. 4N, R. 16E., St. Clair County
Producing formation: Niagaran reef, Silurian System
Total depth: 2521 feet
(A) IP: gauge 36,000 MCF



BELLE RIVER MILLS FIELD

A section of core from the discovery well.
E. E. Brehm et al - Ohman No. 1
SE SW Section 1, T. 4N, R. 13E, Macomb County
Producing formation: Niagaran reef & A-1 carbonate
Silurian System
Total Depth: 3273 feet
(A) IP: gauge 53,800 MCF

TABLE 12.— DEVELOPED GAS STORAGE RESERVOIRS

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF GAS WELLS			GAS PRODUCTION IN MCF		DRILLED ACRES	
			DEPTH	THICK			TO END 1963	COMP IN 1963	ABAND. IN 1963	PROD. AT END 1963	1963		CUMULATIVE
AUSTIN	1933	MICHIGAN STRAY	1380	14	S	DETROIT RIVER	4043	-	4	9	82	6,109,033	3,970
CRANBERRY LAKE	1943	MICHIGAN STRAY	1321	10	S	RICHFIELD	5201	-	8	0	166	7,537,451	7,000
CROTON	1951	MARSHALL	917	4	S	SALINA	3993	-	0	0	7	1,320,835	860
FREEMAN-LINCOLN	1938	MICHIGAN STRAY	1500	10	S	DETROIT RIVER	3957	-	0	0	80	18,099,490	6,600
GOODWELL	1943	MICHIGAN STRAY	1142	20	S	DETROIT RIVER	3562	-	0	0	62	5,875,670	3,020
HAMILTON, NORTH	1952	MICHIGAN STRAY-MARSHALL	1487	8	S	RICHFIELD	5395	-	16	0	33	5,450,065	3,040
HOWELL	1935	SALINA	3920	9	D	ST. PETER	5958	-	0	0	29	23,678,120	2,400
IRA	1953	SALINA-NIAGARAN	2276	33	D	CLINTON	2632	-	2	0	7	2,790,184	680
MARION (WINTERFIELD)	1940	MICHIGAN STRAY	1344	15	S	SYLVANIA	5100	-	2	0	265	20,084,934	10,720
ORLENT	1945	MICHIGAN STRAY	1508	11	S	SYLVANIA	5307	-	10 + 2HW	0	47	5,350,856	2,600
OVERISEL	1956	SALINA	2650	12	D	TRENTON	4060	-	0	0	187	14,645,048	6,660
REED CITY	1940	MICHIGAN STRAY	1217	13	S	ST. PETER	8960	-	0	2	80	7,642,246	4,880
RIVERSIDE	1940	MICHIGAN STRAY	1435	7	S	DUNDRE	3953	-	1	0	89	5,188,481	3,680
SALEM	1937	SALINA	2725	2	D	TRENTON	3792	-	0	0	73	134,900	4,960
SHAVER (SUMNER-NEW HAVEN)	1935	MICHIGAN STRAY	1020	11	S	DUNDRE	3536	-	0	0	49	11,114,906	3,920
SIX LAKES	1934	MICHIGAN STRAY	1270	25	S	DETROIT RIVER	3790	-	14	0	236	51,604,719	11,480
WOODVILLE (NORWICH)	1943	MICHIGAN STRAY	1185	13	S	DETROIT RIVER	3405	-	0	0	41	2,683,259	2,240
									57+2 HW	11	1,533	134,900	200,485,995

17 GAS STORAGE RESERVOIRS

INCLUDES OBSERVATION WELLS

200,485,995 MCF CUMULATIVE PRODUCTION FROM FIELDS PRIOR TO CONVERSION TO GAS STORAGE.

SALEM FIELD CONVERTED TO GAS STORAGE IN 1963. PRODUCTION FIGURE IS AMOUNT OF GAS PRODUCED BEFORE CONVERSION TO GAS STORAGE.

TABLE 13.- OIL WELL GAS - 1963 (Sheet 1 of 2)

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE		DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF GAS WELLS			GAS PRODUCTION IN MCF		DRILLED ACRES		
			DEPTH	THICK			LITH. OLOGY	TO END	COMP. IN	ABAND. IN	PROD. AT END		1963	CUMULATIVE
ADAIR														
ST. CLAIR	1961	SALINA-NIAGARAN									177,843	298,333		
ALBION-SCIPIO TREND	1957	TRENTON-BLK. RIVER HILLSDALE									9,673,558	30,091,265		
BEAVER CREEK														
CRAWFORD-KALKASKA	1947	RICHFIELD									636,936	14,305,728		
ST. CLAIR	1952	SALINA-NIAGARAN									1,247,499	5,164,771		
GLADMIN	1939	DUNDEE										9,834		
CHESTERFIELD														
MACOMB	1959	NIAGARAN									124,698	124,698		
ISABELLA	1944	DUNDEE								120	6,311,307	6,311,307		
COLDWATER											364,710	543,421		
COTTRELLVILLE	1959	SALINA												
DORR											87,892	790,568		
ALLEGAN	1956	SALINA												
EAST NORWICH														
MISSAUKEE-ROSCOMMON	1942	RICHFIELD									798,359	3,041,664		
MASON	1948	DUNDEE									5,160	275,801		
EDEN											131,041	974,831		
EDMORE	1958	TRAVERSE									111,818	305,956		
ENTERPRISE	1943	RICHFIELD									0	3,267		
ESSEXVILLE	1944	DUNDEE												
BAY														
PORK, WEST											13,194	834,925		
METOSTA	1945	RICHFIELD												
HAMILTON, NORTH														
CLARE	1952	RICHFIELD									198,050	2,255,276		
JACKSON	1959	TRENTON-BLK. RIVER									18,370	189,548		
CLARE-ROSCOMMON	1942	DETROIT RIVER									197,563	2,146,049		
ISABELLA														
ISABELLA	1948	DUNDEE									-	138,559		
KANKAMLIN														
BAY	1938	DUNDEE									-	4,590		
NEWAYGO	1947	TRAVERSE									-	2,123,116		
KIMBALL LAKE														

TABLE 13.- OIL WELL GAS - 1963, Continued (Sheet 2 of 2)

FIELD NAME AND COUNTY	YEAR OF DISC.	PRODUCING FORMATION	PAY ZONE			DEEPEST ZONE TESTED	DEPTH IN FEET	NUMBER OF GAS WELLS			GAS PRODUCTION IN MCF		DRILLED ACRES	
			DEPTH	THICK	LITH. OLOGY			TO END	COMP. IN	ABAND. IN	PROD. AT END	1963		CUMULATIVE
MARINE CITY														
ST. CLAIR	1955	SALINA-NIAGARAN										492,785	1,000,129	
MIDLAND-ISABELLA	1928	DUNDEE										15,207	7,788,362	
PENTWATER														
MASON-OSBANA	1948	TRAVERSE-DUNDEE									0	1,010,713	1,010,713	
PETERS	1955	SALINA-NIAGARAN									1,666,466	4,328,111	4,328,111	
PORTER	1933	DUNDEE										4,992,995	4,992,995	
REDDING														
CLARE	1938	DUNDEE										1,956,056	1,956,056	
OSOBOLA	1940	TRAVERSE										383,688	383,688	
REED CITY												16,257,876	16,257,876	
DUNDEE												222,041	2,664,532	
DETROIT RIVER														
REED CITY, EAST	1947	TRAVERSE										18,569	18,569	
REYNOLDS	1954	DUNDEE										408,555	408,555	
MONTCALM														
OGEMAW	1942	RICHFIELD									659,897	4,545,737	4,545,737	
SHERMAN														
ISABELLA	1936	DUNDEE										641,217	641,217	
ROSCOMMON	1941	RICHFIELD									1,002,914	5,679,430	5,679,430	
UNION														
ISABELLA	1950	TRAVERSE										55,354	55,354	
WALKER	1938	TRAVERSE										3,678,731	3,678,731	
KENT-OTTAWA	1938	TRAVERSE												
OGEMAW	1933	DUNDEE-DETROIT RIVER									13,178	43,293	43,293	
WEST BRANCH														
OGEMAW											17,734,601	125,397,555	125,397,555	

36 FIELDS PRODUCING OIL WELL GAS.

17,734,601 MCF OIL WELL GAS IN 1963.

CUMULATIVE GAS FROM ACTIVE GAS FIELDS 71,657,669 MCF
 CUMULATIVE GAS FROM ABANDONED FIELDS 7,820,746
 CUMULATIVE GAS FROM DEVELOPED GAS STORAGE RESERVOIRS 200,485,995
 CUMULATIVE GAS FROM UNDEVELOPED GAS STORAGE RESERVOIRS 39,072,556
 CUMULATIVE GAS FROM OIL WELL GAS 125,397,555
 TOTAL ASSIGNED GAS: 444,434,521 MCF

GAS PRODUCED IN 1963
 ACTIVE GAS FIELDS 14,020,468 MCF
 UNDEVELOPED GAS STORAGE RESERVOIRS 134,900
 OIL WELL GAS 17,734,601
 TOTAL GAS PRODUCTION IN 1963 31,895,701 MCF

125,397,555 MCF CUMULATIVE OIL WELL GAS PRODUCTION.

TABLE 14 -- CASINGHEAD GAS PLANT OPERATIONS BY PLANT OR FIELD - 1963

Plant or Field	Input Totals (MCF)	Plant Fuel	Lease Fuel	Re-cycled Gas Lift	Storage and Repressuring	Line Loss and Shrinkage	Vented	Extraction Loss	Market Sales	LPG Recovery (Gallons)
Albion-Scipio	9,947,549	940,080	0	0	0	0	0	1,015,385	7,992,084	30,672,424
Beaver Creek	777,931	65,186	91,229	0	0	0	0	129,880	491,636	1,334,844
Belle River Mills	6,820,014	121,502	0	0	0	0	0	325,144	6,373,368	9,651,898
The Belle River Mills plant processes dry gas only										
Boyd	8,677,563	145,407	36,974	0	3,628,679	62,407	0	296,563	4,507,533	9,084,342
The Boyd plant processes a combination of casinghead (44%) and dry (56%) gas										
Eden	16,491	6,977	0	0	0	0	570	462	8,482	16,170
The Eden plant shut down in June, 1963										
Enterprise	157,808	15,194	27,164	0	0	3,632	0	0	111,818	0
Hamilton	278,908	11,024	52,682	0	0	0	0	17,152	198,050	429,737
Headquarters	241,139	36,091	7,405	0	0	0	0	-	197,643	44,803
Mt. Pleasant	6,847	444	-	0	0	0	0	138	6,265	38,760
Norwich, East	978,012	58,415	93,672	17,812	0	5,343	0	4,411	798,359	110,226
Rose City	656,900	8,339	2,096	0	0	0	0	0	646,465	0
St. Helen	1,052,382	46,874	53,948	0	0	3,828	0	10,553	937,179	262,282
Willow Run	17,452,857	78,273	0	0	0	0	0	83,178	17,291,406	2,540,756
This plant extracts residual liquids from gas delivered via interstate pipe line. Operations begun December, 1963										
Totals	47,064,401	1,533,806	365,170	17,812	3,628,679	75,210	570	1,882,866	39,560,288	54,186,242

TABLE 15 -- CASINGHEAD GAS PLANT OPERATIONS BY MONTH - 1963

Plant or Field	Input Totals (MCF)	Plant Fuel	Lease Fuel	Re-cycled Gas Lift	(S)=Storage and Repressuring	Line Loss and Shrinkage	Vented	Extraction Loss	Market Sales	LPG Recovery (Gallons)
January	3,453,042	140,027	34,240	1,481	0	233	295	199,282	3,077,484	5,687,759
February	3,169,353	125,342	30,100	1,501	0	0	86	175,135	2,837,189	5,105,490
March	3,100,972	127,639	32,057	1,211	(S)109,953	1,756	118	167,846	2,660,392	4,895,033
April	1,891,847	107,620	28,084	1,366	(S)482,268	2,797	43	118,757	1,150,912	3,576,831
May	1,872,759	111,790	30,592	1,416	(S)495,951	17,121	28	125,840	1,090,021	3,552,645
June	1,902,350	110,580	25,818	1,893	(S)573,436	6,096	0	126,844	1,057,683	3,556,649
July	1,914,859	111,781	26,295	1,835	(S)490,098	14,143	0	129,079	1,141,628	3,689,691
August	1,989,700	114,251	26,063	1,586	(S)533,001	21,919	0	129,268	1,163,612	3,638,524
September	1,849,890	111,454	27,885	1,376	(S)601,650	1,131	0	127,487	978,907	3,556,764
October	2,584,583	131,076	31,085	1,217	(S)342,322	7,969	0	158,569	1,912,345	4,466,672
November	2,756,089	125,822	32,574	1,210	0	1,948	0	166,445	2,428,090	4,718,677
December	20,578,957	216,424	40,377	1,720	0	97	0	258,314	20,062,025	7,741,507
Totals	47,064,401	1,533,806	365,170	17,812	3,628,679	75,210	570	1,882,866	39,560,288	54,186,242

PART III CUMULATIVE RECORDS

EXPLANATION OF PART III CONTENTS

Part III contains cumulative statistics principally of oil and gas production, well completions, and oil field brine production and disposal from 1925 through the most recent year-end compilations.

BRINE PRODUCTION AND DISPOSAL. Oil field brine production records prior to 1937 are incomplete. This table shows the reported amount of produced brine and the method of disposal from 1937 to present. Most oil field brine is now returned to subsurface formations. Small quantities are used for dust control or ice and snow removal on county roads in local areas. A small amount of brine is also disposed of in burning pits.

OIL AND GAS PRODUCTION TABLES. Oil and gas production figures for individual years prior to 1955 can be found in issues of the "Summary of Operations, Oil and Gas Fields" for 1962, and prior years. The tables show the year of the first recorded production from a particular formation and the yearly and cumulative production totals from 1925 through the most recent year-end compilations.

ABBREVIATIONS. Most of the abbreviations listed and used in this report are designed specifically to meet the needs of the publication. Standard abbreviations are used where possible.

WELL COMPLETIONS AND PRODUCTION BY COUNTY. These tables show the classifications of completed wells on a county basis, and the cumulative amount of oil and gas produced in individual counties. Table 21 also indicates the total number of dry holes, oil wells, gas wells, etc., that have been drilled under an oil and gas drilling permit in an individual county.

DRILLING PERMITS, WELL COMPLETIONS, FIELDS DISCOVERED. These tables show the number of drilling permits issued by year from 1927 through the most recent year-end compilations. Classification of well completions by year, the number of new fields or pool discoveries, along with the number of producible oil or gas wells on a yearly basis, is shown on the same table.

TABLE 16 -- DRILLING PERMITS, WELL COMPLETIONS, DISCOVERIES, WELLS AT END OF YEAR, 1963 AND PRIOR YEARS

Year	Permits Issued	Classification of Well Completions					Total	Fields or Pools Discovered		Wells at End of Year				LPG*	
		Oil Wells	Gas Wells	GS OBS	LPG	Dry Holes		Oil	Gas	Oil Wells	Gas Wells	GS OBS	Inj. P.M.		
1925	0	3					3	1							
1926	0	89				16	105	1							
1927	16	218	3		46	46	267	1							
1928	283	79	30		49	49	158	1							
1929	576	324	22		137	137	483	1							
1930	257	154	19		158	158	331	2							
1931	111	59	17		52	52	128								
1932	184	109	10		64	64	183	1							
1933	429	223	10		85	85	318	3							
1934	444	272	47		150	150	469	3							
1935	700	319	101		221	221	641	1							
1936	777	333	206		268	268	807	6							
1937	973	622	66		267	267	955	6							
1938	996	580	27		411	411	1018	6							
1939	1465	845	56		578	578	1479	17							
1940	1121	557	59		565	565	1181	8							
1941	1044	441	97		413	413	951	8							
1942	570	297	74		311	311	682	7							
1943	627	233	47		355	355	635	14							
1944	741	246	64		400	400	710	12							
1945	755	271	57		467	467	801	10							
1946	822	223	53	6	461	461	823	11							
1947	886	318	43	148	387	387	896	19							
1948	918	371	32	77	437	437	917	10							
1949	999	439	22	73	473	473	1007	10							
1950	901	336	28	47	473	473	884	21							
1951	744	227	20	43	466	466	757	14							
1952	694	261	30	51	370	370	714	13							
1953	824	258	18	110	360	360	747	8							
1954	573	214	15	2	338	338	571	9							
1955	484	204	13	1	291	291	510	13							
1956	476	196	12	28	227	227	463	5							
1957	461	176	40	35	207	207	461	10							
1958	481	166	20	36	227	227	453	5							
1959	727	257	47	72	272	272	652	6							
1960	904	372	19	79	441	441	912	5							
1961	849	205	57	74	478	478	817	15							
1962	711	148	62	53	474	474	741	5							
1963	704	135	72	57	384	384	650	11							
Totals	25,227	10,780	1,615	1,078	11,779	11,779	24,915	296	150	4,598	367	1,601	287	28	

Incomplete records from 1925 through 1930

*See table 7 for Inj.-P.M. wells

*LPG injection and extraction wells in LPG storage facilities

1 3 4 6 7 7 10 14 18 19 22 26 28

TABLE 17 -- OIL PRODUCTION BY FORMATIONS - 1963 AND PRIOR YEARS

Year	These data include estimates for multiple pay wells and leases when an accurate breakdown was not available							Total Barrels Oil- All Formations
	Marshall	Berea	Traverse	Dundee- Reed City	Detroit River	Salina Niagaran	Trenton- Black River	
	1938	1925	1927	1927	1939	1952	1935	
1925 Through 1929		876,559	873,777	4,017,451				5,767,787
1930 Through 1934		318,171	995,439	31,870,671				33,184,281
1935 Through 1939	7,411	310,313	13,814,816	72,339,293	14,000		43,565	86,521,987
1940 Through 1944	22,040	229,262	27,856,377	67,939,211	727,418		348,477	97,122,785
1945 Through 1949	17,283	166,687	16,914,771	62,438,443	4,302,309		106,510	83,946,003
1950 Through 1954	9,068	125,089	16,974,863	38,058,703	11,878,669	43,091	225,180	67,314,663
1955	1,662	26,193	2,048,256	5,959,338	3,101,121	11,258	118,004	11,265,832
1956	1,678	24,356	1,974,389	5,635,689	2,993,166	8,262	102,157	10,739,697
1957	1,830	19,926	1,805,959	5,342,961	2,811,865	24,082	161,979	10,168,602
1958	1,583	19,462	1,448,231	4,525,729	2,573,017	131,956	608,040	9,308,018
1959	1,430	20,702	1,511,950	4,155,217	2,238,621	392,527	2,118,161	10,438,608
1960	1,270	19,149	1,501,307	3,987,425	2,005,871	379,806	8,004,378	15,899,206
1961	1,268	16,945	1,380,081	3,539,682	1,748,644	916,157	11,298,171	18,900,948
1962	1,215	16,186	1,335,105	3,200,061	1,456,054	1,110,937	9,994,745	17,114,303
1963	1,223	15,899	1,329,268	2,583,882	1,580,589	1,067,729	9,393,157	15,971,747

TABLE 18 -- CUMULATIVE OIL PRODUCTION BY FORMATIONS - 1963 AND PRIOR YEARS

Year	These data include estimates for multiple-pay wells and leases when an accurate breakdown was not available							Total Barrels Oil- All Formations
	Marshall	Berea	Traverse	Dundee- Reed City	Detroit River	Salina Niagaran	Trenton- Black River	
	1938	1925	1927	1927	1939	1952	1935	
1925 Through 1929		876,559	873,777	4,017,451				5,767,787
1930 Through 1934		1,194,730	1,869,216	35,888,122				38,952,068
1935 Through 1939	7,411	1,505,043	15,684,032	108,227,415	14,000		43,565	125,481,466
1940 Through 1944	29,451	1,734,305	43,540,409	176,166,626	741,418		392,042	222,604,251
1945 Through 1949	46,734	1,900,992	60,455,180	238,605,069	5,043,727		498,552	306,550,254
1950 Through 1954	55,802	2,026,081	77,430,043	276,663,772	16,922,396	43,091	723,732	373,864,917
1955	57,464	2,052,274	79,478,299	282,623,110	20,023,517	54,349	841,736	385,130,749
1956	59,142	2,076,630	81,452,688	288,258,799	23,016,683	62,611	943,893	395,870,446
1957	60,972	2,096,556	83,258,647	293,601,760	25,828,548	86,693	1,105,872	406,039,048
1958	62,555	2,116,018	84,706,878	298,127,489	28,401,565	218,649	1,713,912	415,347,066
1959	63,985	2,136,720	86,218,828	302,282,706	30,640,186	611,176	3,832,073	425,785,674
1960	65,255	2,155,869	87,720,135	306,270,131	32,646,057	990,982	11,836,451	441,687,880
1961	66,523	2,172,814	89,100,216	309,809,813	34,394,701	1,907,139	23,134,622	460,585,828
1962	67,738	2,189,000	90,435,321	313,009,874	35,850,755	3,018,076	33,129,367	477,700,131
1963	68,961	2,204,899	91,764,589	315,593,756	37,431,344	4,085,805	42,522,524	493,671,878

TABLE 19 --- GAS PRODUCTION BY FORMATIONS -- 1963 AND PRIOR YEARS

Year	Glacial Drift	Stray-Marshall	Berea	Antrim Shale	Traverse	First Year of Recorded Gas Production by Formation				Trenton-Black River	Total MCF Gas All Formations
						Dundee-Reed City	Detroit River	Salina Niagaran	1954		
	1949	1931	1936	1947	1934	1929	1946	1929	1929	1954	
1925 Through 1929						1,887,732			74,867		1,962,599
1930 Through 1934		3,001,963			3,744	6,034,206			61,578		9,101,491
1935 Through 1939		30,769,471	1,391,076		69,894	8,862,165			6,331		41,098,937
1940 Through 1944		70,498,989	5,860,831		3,716,132	7,647,510			79,983		87,803,445
1945 Through 1949	8,020	80,217,680	1,467,460	52,495	1,414,004	15,710,636	793,763	7,393,744			107,057,802
1950 Through 1954		18,033,449	916,202	55,626	1,913,497	5,361,578	6,997,257	11,316,082		10,725	44,604,416
1955		2,378,082	54,582	8,289	31,671	623,664	1,432,635	1,202,718		1,056,056	6,787,697
1956		1,913,078	39,493	11,084	13,376	540,718	1,525,523	2,713,634		2,084,027	8,840,933
1957		1,031,520	26,294	11,094	13,062	444,272	2,326,744	1,617,909		1,168,918	6,639,813
1958		837,548	19,684	11,307	73,297	335,147	3,604,884	4,863,216		1,219,295	10,964,378
1959		674,191	8,032	14,912	135,217	343,265	3,649,466	9,720,047		1,081,097	15,626,227
1960		855,169	8,800	37,258	164,509	504,474	3,979,849	9,877,820		3,812,289	19,240,168
1961		616,710	7,357	25,573	208,967	348,084	4,054,480	9,955,240		9,828,375	25,044,786
1962		451,113	6,620	23,768	206,613	117,606	4,148,707	11,926,493		10,885,208	27,766,128
1963		356,283	10,626	43,213	161,041	85,347	3,849,049	16,808,200		10,581,942	31,895,701

TABLE 20 --- CUMULATIVE GAS PRODUCTION BY FORMATIONS - 1963 AND PRIOR YEARS

Year	Glacial Drift	Stray-Marshall	Berea	Antrim Shale	Traverse	First Year of Recorded Gas Production by Formation				Trenton-Black River	Cumulative MCF All Formations
						Dundee-Reed City	Detroit River	Salina Niagaran	1954		
	1949	1931	1936	1947	1934	1929	1946	1929	1929	1954	
1925 Through 1929						1,887,732			74,867		1,962,599
1930 Through 1934		3,001,963			3,744	7,921,938			136,445		11,064,090
1935 Through 1939		33,771,434	1,391,076		73,638	16,784,103			142,776		52,163,027
1940 Through 1944		104,270,423	7,251,907		3,789,770	24,431,613			222,759		139,966,472
1945 Through 1949	8,020	184,488,103	8,719,367	52,495	5,203,774	40,142,249	793,763	7,616,503			247,024,274
1950 Through 1954		202,521,552	9,635,569	108,121	7,117,271	45,503,827	7,791,020	18,932,585		10,725	291,628,690
1955		204,899,634	9,690,151	116,410	7,148,942	46,127,491	9,223,655	20,135,303		1,066,781	298,416,387
1956		206,812,712	9,729,644	127,494	7,162,318	46,668,209	10,749,178	22,848,927		3,150,808	307,257,320
1957		207,844,232	9,755,938	138,588	7,175,380	47,112,481	13,075,922	24,466,846		4,319,726	313,897,133
1958		208,681,780	9,775,622	149,895	7,248,677	47,447,628	16,680,806	29,330,062		5,539,021	324,861,511
1959		209,355,971	9,783,654	164,807	7,383,894	47,790,893	20,330,272	39,050,109		6,620,118	340,487,738
1960		210,211,140	9,792,454	202,065	7,548,403	48,295,367	24,310,121	48,927,929		10,432,407	359,727,906
1961		210,827,850	9,799,811	227,638	7,757,370	48,643,451	28,364,601	58,883,169		20,260,782	384,772,692
1962		211,278,963	9,806,431	251,406	7,963,983	48,761,057	32,513,308	70,809,662		31,145,990	412,538,820
1963		211,635,246	9,817,057	294,619	8,125,024	48,846,404	36,362,357	87,617,862		41,727,932	444,434,521

TABLE 21 -- CUMULATIVE WELL COMPLETIONS AND OIL AND GAS PRODUCTION BY COUNTY THROUGH 1963 (Sheet 1 of 2)

County	Classification of completed wells (does not include reworked wells)						Total Completions	Cumulative Production Through 1963	
	Oil Wells	Gas Wells	GS-OBS-SWD Wells	LPG	Dry Holes	Total		Barrels Oil	MCF Gas
Alcona	1281	89	159		4	4	17,916,522	0	
Allegan					1647	3176	0	28,455,896	
Alpena		1			9	9	0	0	
Antrim	404	44			26	27	0	0	
Arenac	74				382	830	43,815,758	6,722,136	
Barry	458	1			124	198	574,367	0	
Bay					209	668	17,322,982	7,857	
Benzie					2	2	0	0	
Berrien	9				69	78	29,672	0	
Branch					33	33	0	0	
Calhoun	190	8			184	382	12,900,003	11,596,440	
Cass	30				118	148	78,687	0	
Charlevoix					11	11	0	0	
Cheboygan					15	15	0	0	
Chippewa			Northern Peninsula County		4	4	0	0	
Clare	377	170	364		343	1254	31,051,231	55,533,897	
Clinton	4				76	80	4,121	0	
Crawford	78				17	95	4,803,631	12,356,088	
Delta			Northern Peninsula County		1	1	0	0	
Eaton					20	20	0	0	
Emmet					3	3	0	0	
Genesee	11				40	51	88,423	0	
Gladwin	730				254	984	30,706,893	9,834	
Grand Traverse					7	7	0	0	
Gratiot	46	74	19		250	389	916,770	12,911,512	
Hillsdale	195	1			295	491	18,156,671	10,994,595	
Huron	5				73	78	45,004	0	
Ingham					17	17	0	0	
Ionia	9				71	80	381,269	0	
Iosco					23	23	0	0	
Isabella	649	159			456	1264	50,989,926	32,969,579	
Jackson	124	2			191	317	10,032,567	7,384,659	
Kalamazoo	18				103	121	28,868	0	
Kalkaska	22	7			42	71	1,108,372	2,133,910	
Kent	458	6	1	8	334	807	9,061,546	3,638,950	
Lake	18	1			103	122	2,153,955	182,438	

TABLE 21 -- CUMULATIVE WELL COMPLETIONS AND OIL AND GAS PRODUCTION BY COUNTY THROUGH 1963 Continued (Sheet 2 of 2)

Lapeer	11				54	65	25,071	0
Leelanau					9	9	0	0
Lenawee	3	47			81	131	4,544	0
Livingston		19	15		71	105	109	23,679,667
Luce			Northern Peninsula County		2	2	0	0
Mackinac			Northern Peninsula County		2	2	0	0
Macomb	3	25			120	148	9,570	2,748,881
Manistee		1			24	25	0	0
Mason	109	6			205	320	3,919,682	283,827
Mecosta	99	193	132		357	781	9,151,874	30,379,144
Midland	898	2		2	267	1169	65,037,382	12,423,955
Missaukee	169	59	93		180	501	11,477,317	10,014,637
Monroe	45				106	151	675,192	0
Montcalm	375	221	113		535	1244	16,664,919	52,418,643
Montmorency	3	1			17	21	7,613	0
Muskegon	430	119			341	890	7,661,655	9,744,304
Newaygo	195	46	68		330	639	8,582,295	13,080,618
Oakland	5	3			57	65	27,247	13,628
Oceana	326	7			441	774	14,440,794	1,172,788
Ogemaw	494	18			159	671	15,013,119	4,599,427
Oseola	332	108	109		312	861	50,239,130	43,943,824
Oscoda	2				9	11	24,742	0
Otsego	1	8			28	37	2,990	286,789
Ottawa	462	19	2		446	929	7,824,828	1,443,648
Presque Isle					5	5	0	0
Roscommon	180	14			100	294	10,203,929	9,256,862
Saginaw	378	2			170	550	2,286,234	0
Sanilac					45	45	0	0
Schoolcraft			Northern Peninsula County		2	2	0	0
Shiawassee	1				51	52	236	0
St. Clair	190	94	3		421	708	3,511,813	29,222,837
St. Joseph					15	15	0	0
Tuscola	142	1			99	242	1,999,759	0
Van Buren	719	17			969	1688	11,950,154	0
Washtenaw	8	20		18	88	113	632,158	6,637,158
Wayne	9	2			44	91	125,470	8,188,135
Wexford	1				44	47	4,814	0
73 counties total	10,780	1,616	1,078	28	11,762	25,263	493,671,878	444,436,562*

*Unassigned gas not included in this total.

ABBREVIATIONS Continued

P.D.C.	Prairie du Chien formation
Penn.	Pennsylvanian
Pilot Wtr.	Pilot Water
P.M.	Pressure Maintenance
Precamb.	Precambrian
Prod.	Produced
Prod. Form.	Producing Formation
R.C.	Reed City formation
RW	Reworked Well
Rich.	Richfield formation
Sag.	Saginaw formation
Sal.-Niag.	Salina-Niagaran
SD	Shut Down
Seis.	Seismograph
SG	Show Gas
Sil.	Silurian
SO	Show Oil
S.P.	St. Peter formation
SSG	Small Show Gas
SSO	Small Show Oil
Stray	Michigan Stray formation
Sub.	Subsurface geology
SW	Service Well
SWD	Salt Water Disposal
Sylv.	Sylvania formation
SZ	Sour Zone (in Detroit River)
Thick.	Thickness
(T) I.P.	(Treatment) Initial Production or Potential
Trav.	Traverse
Tremp.	Trempealeau formation
Trenton-Blk. River	Trenton-Black River
Trent.	Trenton

Unit.
Wtr. Flood
Unitized
Water Flood

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