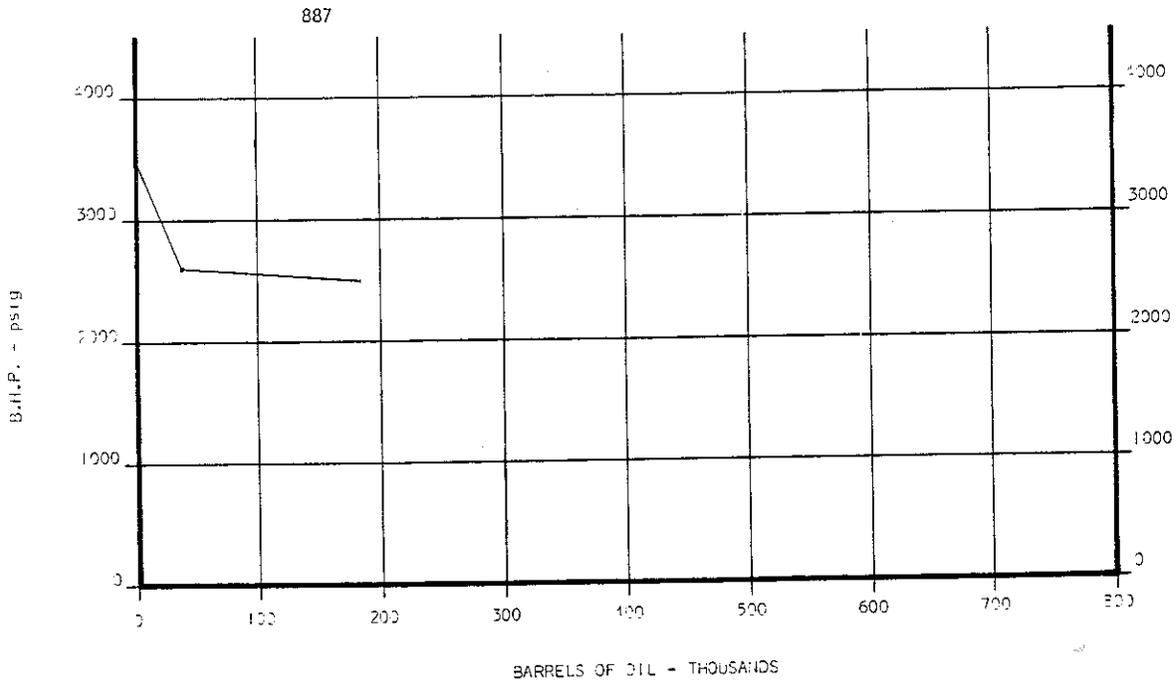


STATE OF MICHIGAN

FIELD NAME UNION 3A-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-81 VIRGIN PRESSURE 3481 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5594 FEET		DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS				
Elhart #2-3	12-81	24	6493 TVD	3481	DECEMBER 14, 1981 .282	3481	INITIAL	TEST		1790	1800
Elhart #2-3	12-81	48	6493 TVD	3117	JULY 29, 1982 .282	3117	3481	12-14-81	-364	1511	
Templeton #1-3A	8-83	39	6500 TVD	2607	AUGUST 22, 1983 .291	2616	3117	7-29-82	-501	1080	
Elhart #2-3	12-81	--	6493 TVD	2501	DECEMBER 30, 1983 .300	2501	2616	8-22-83	-115	942	

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 UNION 3A-26N-9W



STATE OF MICHIGAN

FIELD NAME PARADISE 8-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-80 VIRGIN PRESSURE 3492 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5333 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
Haight Rawlings 1-8	4-80	2	6306	3231	APRIL 14, 1980 .134	3231	INITIAL TEST			2613	2269
St. Paradise #4-8	10-81	24	6535	3510	OCTOBER 8, 1981 .112	3492	INITIAL TEST			2806	1957
Village of Kingsley #1-8	7-80	160 +	6518	3394	AUGUST 27, 1982 10	3377	INITIAL TEST			2720	
Wistrand #3-8A	1-83	21.5	6484 TVD	3678	JANUARY 27, 1983 10*	3660	INITIAL TEST			--	--
Village of Kingsley #1-8	7-80	56	6518	3218	AUGUST 11, 1983 10*	3201	3660	1-27-83	-459	2586	

* Assumed

STATE OF MICHIGAN

FIELD NAME PARADISE 15-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 1-83 VIRGIN PRESSURE 3600* NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5002 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
Wicksall-Francona #1-15A	1-83	--	6100	2502+ (+ pressure not built up)	DECEMBER 21, 1983 .537	2502	INITIAL TEST			1200	

* Estimated

STATE OF MICHIGAN

PARADISE 18-25N-10W

FIELD NAME PARADISE 17-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-79 VIRGIN PRESSURE 3615 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5372 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Chavalia #1-17	11-79	517	6475	3615	NOVEMBER 5, 1979 .30	3615	INITIAL	TEST		2365

STATE OF MICHIGAN

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5438 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Egeler #1-18	10-73	145	6506	2916	OCTOBER 16, 1979 .093	2917	3307	7-9-79	- 390	2322
Chavalia #3-18A	7-78	436.4	6550 IVD	2911	MARCH 31, 1980 .10	2911	2917	10-16-79	- 6	
Chavalia 3-18A	7-78	172	6551 TVD	2225	JUNE 28, 1982 .29	2226	2911	3-31-80	- 685	1569
Egeler 1-18	10-73	217	6506	1303	JULY 7, 1982 .04	1312	2226	6-28-82	- 914	1074

REMARKS:

STATE OF MICHIGAN

FIELD NAME PARADISE 18-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-19-73 VIRGIN PRESSURE 3600* NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5438 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Egeler #1-18	10-73	258.5	6506	NOVEMBER 9, 1973 2330	.082	2330	Initial test	(INCOMPLETE BUILDUP)		
Egeler #1-18	10-73	43 Days	6506	DECEMBER 12, 1977 2568	.10*	3570	3600	11-9-73	- 30	2853
Chavalia #3-18a	7-78	96.4	6436 IVD	AUGUST 7, 1978 3544	.10*	3556	3570	11-9-73	- 14	2795
Approximately 5200 bbls. condensate and 12,000 Mcf gas production from field										
Egeler #1-18	10-73	105.4	6506	DECEMBER 13, 1978 2949	.10*	2951	NOT USED IN CALCULATIONS			1180 Pkr.
Incomplete pressure buildup, buildup rate at 3 psi/hr										
Chavalia #3-18a	7-78	27	6471 IVD	FEBRUARY 27, 1979 3376	.11	3385	3556	8-7-78	-171	2624
Lathers #4-18a	7-79	67.2	6584 IVD	JULY 9, 1979 3309	065	3307	3385	2-27-79	- 78	2624

REMARKS:

FIELD NAME PARADISE 18A-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 8-77 VIRGIN PRESSURE 3448 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5186 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Veeder 2-18	8-77	61	6309	AUGUST 1, 1977 .10*	3448	INITIAL TEST				2750
Veeder 2-18	8-77	1 yr	6309	JULY 7, 1982 .10	3365	3448	8-1-77	-83		2683

* Assumed

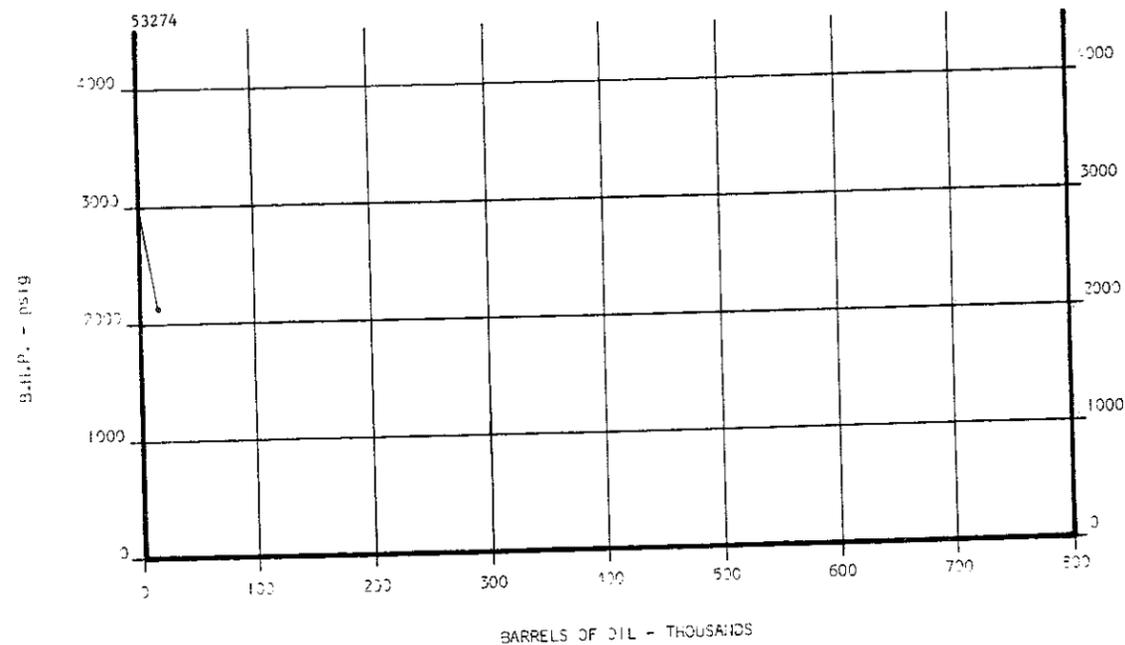
FIELD NAME PARADISE 19-26N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-75 VIRGIN PRESSURE 2915 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 4876 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
State Paradise 1-19	6-75	61.8	5801	2915	.10	2915	INITIAL TEST		2355	
St. Paradise #1-19	6-75	744	5800	2125	.58	2126	6-9-75	- 789	151	

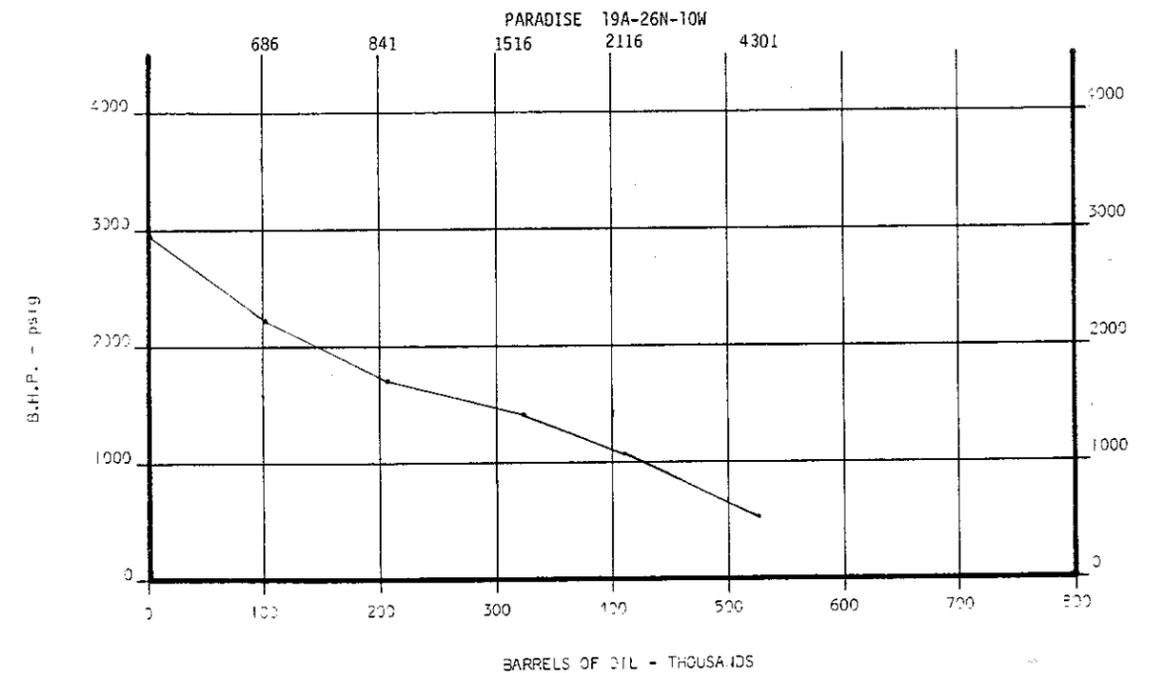
FIELD NAME PARADISE 19a-26N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-77 VIRGIN PRESSURE 2944 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 4903 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
St. Paradise #2-19a	10-77	94.7	5826 IVD	2944	.29	2944	INITIAL TEST			
St. Paradise #2-19a	10-77	69	5826 IVD	2036	.38	2036	2944	10-20-77	- 908	674
St. Paradise 2-19A	10-77	48	5826 IVD	1730	.31	1730	2036	10-20-78	- 306	756
St. Paradise 2-19A	10-77	25	5826 IVD	1413	.26	1408	1730	10-22-79	- 322	912
St. Paradise 2-19A	10-77	50	5826 IVD	1076	.02	1076	1408	10-3-80	- 332	907
St. Paradise 2-19A	10-77	25	5833 TVD	549	.11	546	1076	10-21-81	-530	465

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION PARADISE 19-26N-10W



BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME PARADISE 20-26N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-75 VIRGIN PRESSURE 3114 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5114 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Paradise 1-20	7-75	114.8	6039	3114	JULY 30, 1975 N.A.	3114		INITIAL TEST		2472	
St. Paradise 1-20	7-75	61.4	6037	2943	JUNE 25, 1976 .09	2943	3114	7-30-75	- 171	2393	
St. Paradise 1-20	7-75	62.1	5883	1482	FEBRUARY 11, 1979 .043	1489	2943	6-25-76	-1454	1235	

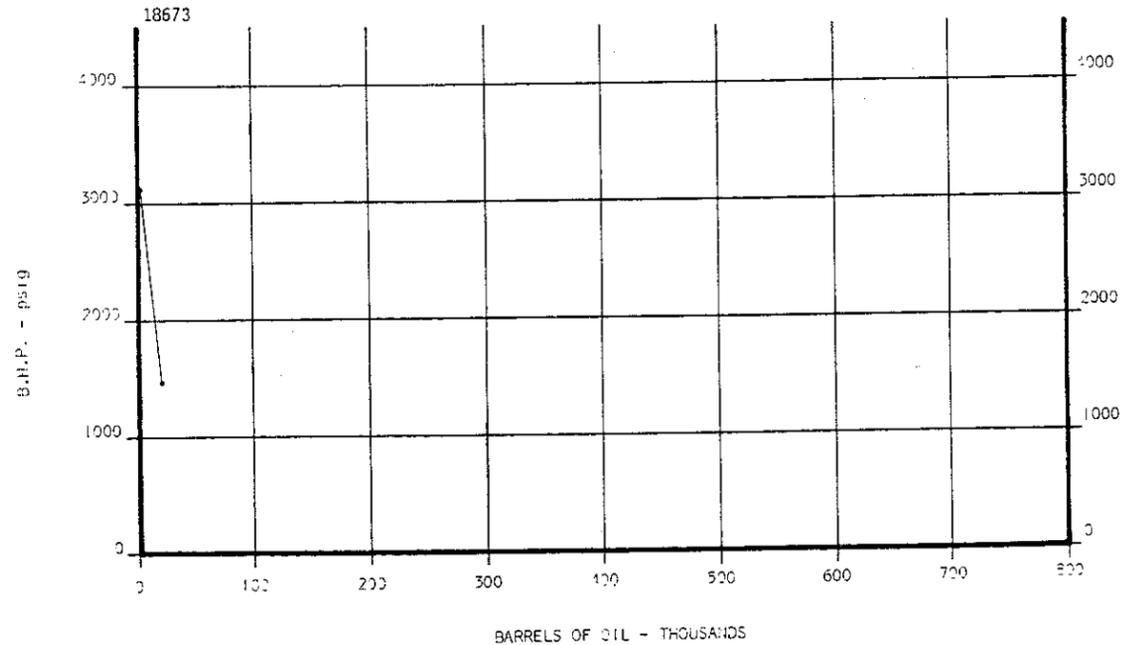
FIELD NAME PARADISE 20A-26N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-79 VIRGIN PRESSURE 3335 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5572 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.
Cunningham 1-20	8-79	N.A.	6436	3335	AUGUST 21, 1979 .30*	3335		INITIAL TEST		1100	1058
Cunningham 1-20	8-79	10	5794	2761	SEPTEMBER 17, 1979 .429	3036	3335	8-21-79	- 299	1715	1215
St. Paradise 3-19	5-80	138.8	5924 IVD	2468	MAY 28, 1980 .50	2751	3036	9-17-79	- 285	0	

* Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION

PARADISE 20-26N-10W



FIELD NAME PARADISE 21-26N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-75 VIRGIN PRESSURE 3124 NO. PRODUCING WELLS

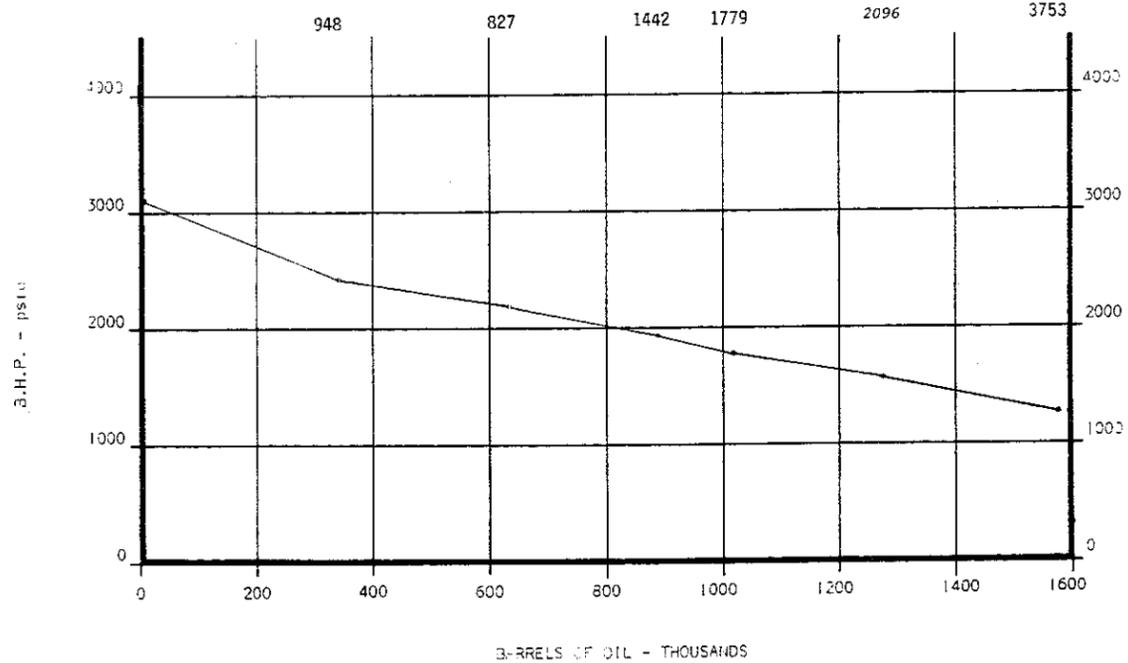
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5067 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.
Wise Smith 1-21	8-75	62.8	5847 IVD	3120	AUGUST 11, 1975 .33	3120		INITIAL TEST		1456	
Wise Smith 1-21	8-75	65.4	5759 IVD	3102	OCTOBER 20, 1975 .26	3124		INITIAL TEST		1555	
Baber St. Paradise 2-21	6-76	113	5900	3073	MAY 27, 1976 .30	3078	3124	10-20-75	- 46	1481	
Wise #1-16	6-76	185	5835	3027	JUNE 23, 1976 .364	3025	3078	5-27-76	- 53	1443	
Wise Smith 1-21	8-75	27	5709 IVD	1810	APRIL 19, 1977 .302	1852		NOT USED IN CALCULATIONS		793	
Baber St. Paradise #2-21	6-76	27	5971	2435	OCTOBER 6, 1977 .290	2419	3025	6-23-76	- 606	966	
Wise 1-16	6-76	30	5835	2172	OCTOBER 12, 1978 .313	2170	2419	10-6-77	- 249	1447	1620
Wise #1-16	6-76	N.A.	5835	1951	NOVEMBER 20, 1979 .304	1949	2170	10-12-78	- 221	1451	1479
Wise #1-16	6-76	93	5835	1782	OCTOBER 2, 1980 .36	1775	1949	11-20-79	- 174	1362	1630

FIELD NAME: PARADISE 21-26N-10W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM FEET			INTERNAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. # 5067	CURRENT PRESS.	PREVIOUS PRESSURE			
Wise #1-16 Baber-Paradise 2-21	6-76	---	5892	1620	OCTOBER 16-21, 1981	.345	1594			1249	
	6-76	26	5971	1610	Average	.29	1594	1775	10-2-80	- 181	
Wise #1-16	6-76	48	5834	1272	JANUARY 29, 1984	.320	1270	1594	10-21-81	-324	990

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVE CUMULATIVE OIL PRODUCTION
Paradise 21-26N-10W



FIELD NAME PARADISE 23-26N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-74 VIRGIN PRESSURE 3309 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM FEET			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. # 5309	CURRENT PRESS.	PREVIOUS PRESS.		
St. Paradise 1-23	4-74	40	6324	MAY 1, 1974 3309	.120	3309				
St. Paradise 1-23	4-74	208	6324	MAY 28, 1975 3130	.1964	3133	3309	5-1-74	- 176	2382
St. Paradise 1-23	4-74	48	6324	August 25, 1978 1735	.053	1736	3133	5-28-75	-1397	1407
St. Paradise 1-23	4-74	26	6324	OCTOBER 30, 1981 944	.02	944	1736	8-25-78	- 792	785
St. Paradise 1-23	4-74	2 da	6324	APRIL 13, 1983 650	.02	650	944	10-30-81	-294	550

REMARKS:

FIELD NAME PARADISE 24-26N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-75 VIRGIN PRESSURE 3246 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM FEET			INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. # 5350	CURRENT PRESS.	PREVIOUS PRESS.		
St. Paradise 2-24	7-75	130.4	6294	JULY 24, 1975 3246	N.A.	3246				2476
St. Paradise 2-24	7-75	17 Days	6295	DECEMBER 5, 1977 2201	.073	2201	3246	7-24-75	- 1045	1717
St. Paradise 2-24	7-75	151	6294	DECEMBER 18, 1978 916	.025	916	2201	12-5-77	- 1285	240 Pkr.
St. Paradise 2-24	7-75	25	6298	OCTOBER 16, 1981 475	.01	475	916	12-18-78	- 441	396

STATE OF MICHIGAN

FIELD NAME MAYFIELD 21-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-74 VIRGIN PRESSURE 3200 NO PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5230 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Weber #1-21	5-74	43	6331	3200	.100	3200				2380
Weber #1-21	5-74	1.3	6326	3159	.100*	3160	3200	5-20-74	- 40	2257
Weber #1-21	5-74	68	6326	3021	.100*	3022	3160	3-2-75	- 138	2257
Weber #1-21	5-74	3.8	6326	2856	.100*	2857	3022	4-14-75	- 165	
Weber #1-21	5-74	3.7	6326	2391	.087	2391	2857	9-3-75	- 466	1840
Finehout #3-21	5-76	27.3	6331*	2205	.100*	2205	2391	3-9-76	- 186	1051 1731
Finehout #3-21	5-76	26	6513	1905	.070	1892	2205	6-2-76	- 313	1502 1502
Finehout #3-21	5-76	26	6467	1827	.057	1819	1892	9-21-76	- 73	1480 1429
Weber #1-21	5-74	30 Days	6326	1577	.05	1577	1819	11-5-76	- 242	1273

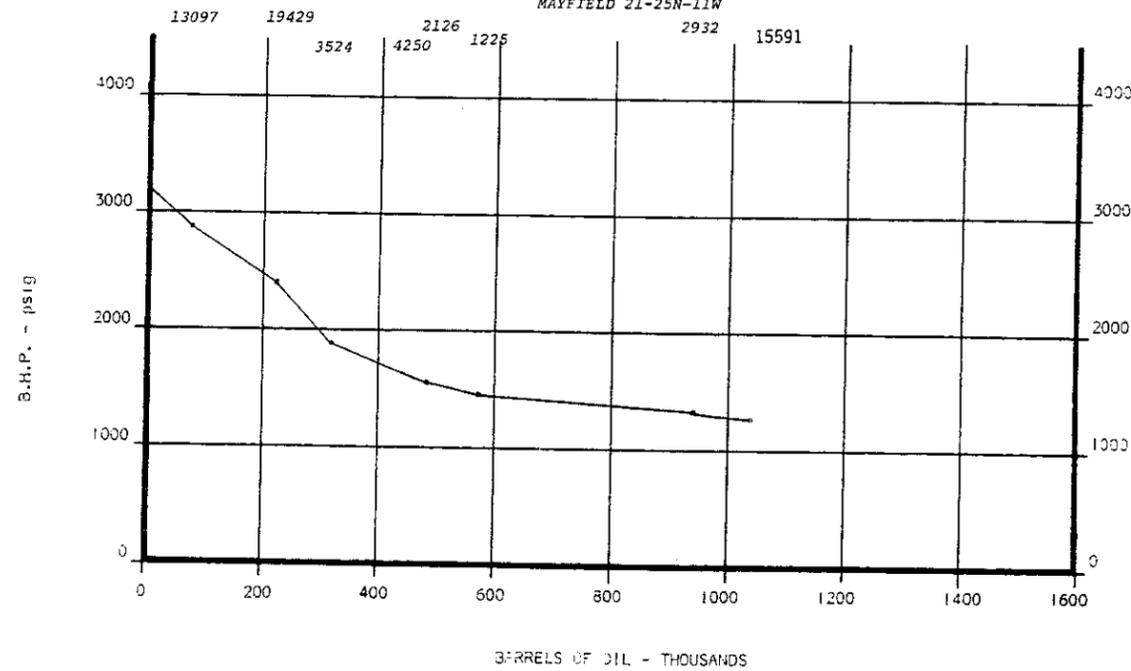
* Assumed

BOTTOM-HOLE PRESSURE TESTS - Page 2

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5230 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Finehout #3-21	5-76	5.5	6478	1540	.055	1532				1091 1250
Weber #1-21	5-74	28 Days	6326	1556	.0525	1556				
					AVERAGE	1544	1577	3-25-77	- 33	
Finehout #3-21	5-76	76	6478	1537	.056	1529				
Weber #1-21	5-74	15 Days	6326	1542	.06	1542				1223
					AVERAGE	1536	1544	12-7-77	- 9	
Weber #3-21	6-78	90	6500	1544	.29	1479	1536	3-15-78	- 57	443
Weber #5-21C	9-78	62	6469 IVD	1509	.30	1422	1479	6-19-78	- 57	572
Weber #5-21C	9-78	102	6469 IVD	1456	.10	1436	NOT USED IN CALCULATIONS			
Weber #3-21	6-78	26	6500	1426	.31	1356	1422	2-16-79	- 66	1113
Weber 3-21	6/78	26	6500	1228	.08	1209	1356	4/1/81	-147	975

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME MAYFIELD 24-25N-11W (EAST) COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-73 VIRGIN PRESSURE 3481 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5469 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Howard #1-24	4-73	14.5	6584	3481	.295*	3481				2661
Howard #1-24	4-73	9.6	6584**	2512	.295*	2512				2623
Howard #1-24	4-73	Several Days	6584	3183	.116	3183	3481	5-5-73	-298	2420
Howard #1-24	4-73	51.5	6585	2700	.093	2700	3183	7-1-77	-483	2087
Howard #1-24	4-73	40.9	6585	2113	.067	2113	2700	2-28-79	-587	1680
Howard 1-24	4-73	65	6585	1258	.09	1258	2113	2-20-80	-855	1026

* Gas well with oil well gradient
 ** Assumed

FIELD NAME MAYFIELD 22-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 7-82 VIRGIN PRESSURE 3281 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5476 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Richards 1-22B	7-82	28	6566 TVD	3182	122	3182				2375 372
Mason 1-22A	1-83	23	6560 TVD	3276	123	3277				2489 --
Mason 1-22A	1-83	NA	6560 TVD	3280	123	3281				2513

FIELD NAME MAYFIELD 24-25N-11W (WEST) COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-74 VIRGIN PRESSURE 3487 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5469 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Howard #2-23	9-74	40	6357	3432	.320	3487				
Howard #2-23	9-74	Since Completion	6357	3431	.10	3486				2574
Howard #2-23	9-74	70.1	6357*	2972	.10*	2990	3487	9-14-74	-497	
Howard #3-23	9-74	52.5	6358	2039	.066	2050	2990	7-1-77	-940	1615
Howard #2-23	9-74	43.7	6356	1632	.087	1647	2050	2-20-79	-403	1085
Howard #2-23	9-74	48	6357	1301	.02	1304	1647	3-7-80	-343	1071

* Estimated

FIELD NAME MAYFIELD 26-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 7-74 VIRGIN PRESSURE 3436 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5355 FEET			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Mayfield #1-26	7-74	42.5	6406	3464	.090	3464				
								Initial Test		
St. Mayfield #1-26	7-74	53.5	6408	2810	.097	2811	3464	7-30-74	- 653	2195
St. Mayfield 1-26	7-74	68	6408	1616	.048	1616	2811	2-28-79	- 1195	1320
St Mayfield 1-26	7-74	10 DA	6418	614	.03	614	1616	2-7-80	-1002	520

REMARKS:

FIELD NAME MAYFIELD 26A-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-79 VIRGIN PRESSURE 3138 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5557 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Ergang #2-26A	12-79	69.3	6632 TVD	3138	.240	3138				2459
								INITIAL TEST		
Ergang 2-26B	11-82	24	6598 TVD	2877	.104	2880	3138	12-20-79	-258	2289

FIELD NAME MAYFIELD 27-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 10-78 VIRGIN PRESSURE 3289 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5163 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Hill Homrich 2-27	10-78	14 days	6217	3180	.109	3180				2517
								INITIAL TEST		
Homrich Hill Estate #5-28A	7-80	81.2	6515 TVD	3327	.124	3289				2517
								INITIAL TEST		
Homrich Hill Estate 5-28A	7-80	96	6515 TVD	2711	.12	2674				2071
Hill Homrich 2-27	10-78	months	6217	2334	.02	2334				1850
					AVG	2504	3289	7-8-80	-785	
Homrich Hill Estate 5-28A	7-80	96	6515 TVD	2171	.07	2149	2504	7-2-82	-355	1698

FIELD NAME MAYFIELD 27a-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 5-79 VIRGIN PRESSURE 3183 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5420 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Hill Estate 3-27a	5-79	86	6486 TVD	3183	.106	3183				2490
								INITIAL TEST		
Hill Estate 3-27A	5-79	123	6521 TVD	1150	.37	1137				859
								NOT USED IN CALCULATION		
Hill Estate 3-27A	5-79	--	6520 TVD	1155	.14	1150				950
								NOT USED IN CALCULATION		
Hill Estate 3-27A	5-79	7 DA	6520 TVD	1151	.25	1143	3183	5-7-79	-1995	928

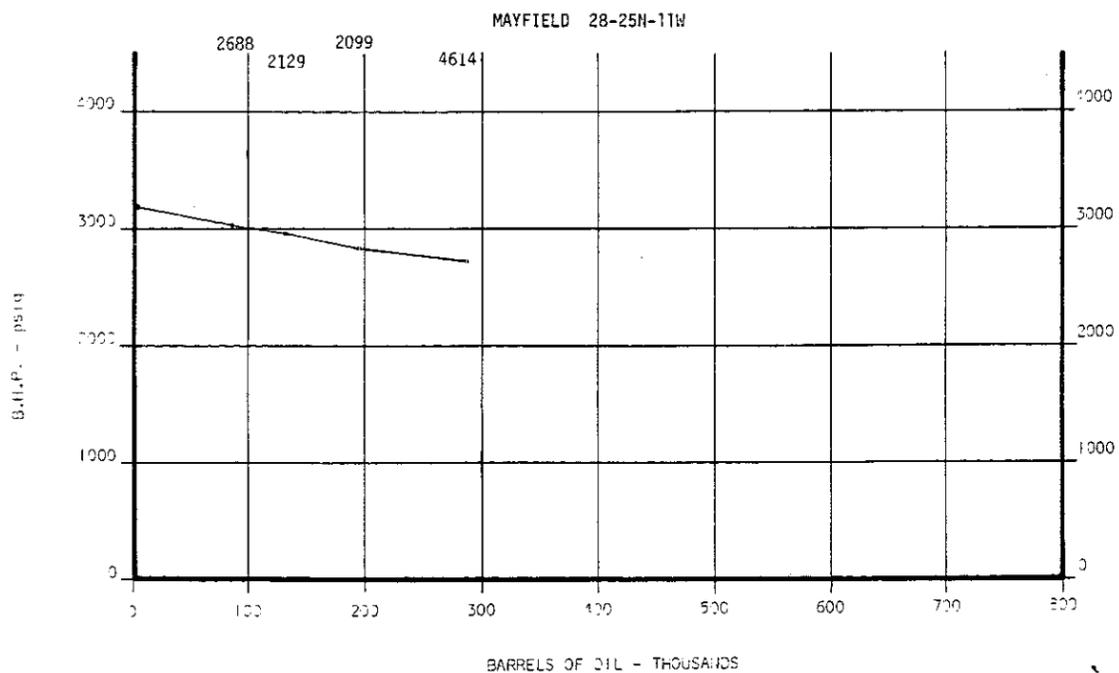
FIELD NAME MAYFIELD 28-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-76 VIRGIN PRESSURE 3195 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5403 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Phoenix Petroleum Corp. #2-28	9-76	1	6440	3195	N.A.	3195		INITIAL PRESSURE		1743
Phoenix #2-28	9-76	24	6440	3048	.25	3044	3195	9-20-76	- 151	2201
Phoenix #2-28	9-76	41	6440	2983	.26	2978	3044	10-18-78	- 66	2120
Phoenix #2-28	9-76	264	6440	2850	.14	2847	2978	10-17-79	- 131	2153
Phoenix #2-28	9-76	25	6439	2764	.11	2764	2847	10-29-80	-83	2127
Phoenix #2-28	9-76	25	6440	2694	.25	2694	2764	11-10-82	-70	2028

FIELD NAME MAYFIELD 28B-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 6-82 VIRGIN PRESSURE 3200* NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Phoenix 6-28C	6-82	48	6500 TVD	828	.02	830		INITIAL TEST		628

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME MAYFIELD 29-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-76 VIRGIN PRESSURE 2983 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5015 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Henschell #1-29A	3-76	203	6060 TVD	2935	MARCH 17, 1976 N.A.	2935		INITIAL TEST		
Henschell #1-29A	3-76	18 Days	6060 TVD	2983	MARCH 26, 1976 .704	2983		INITIAL TEST		2325

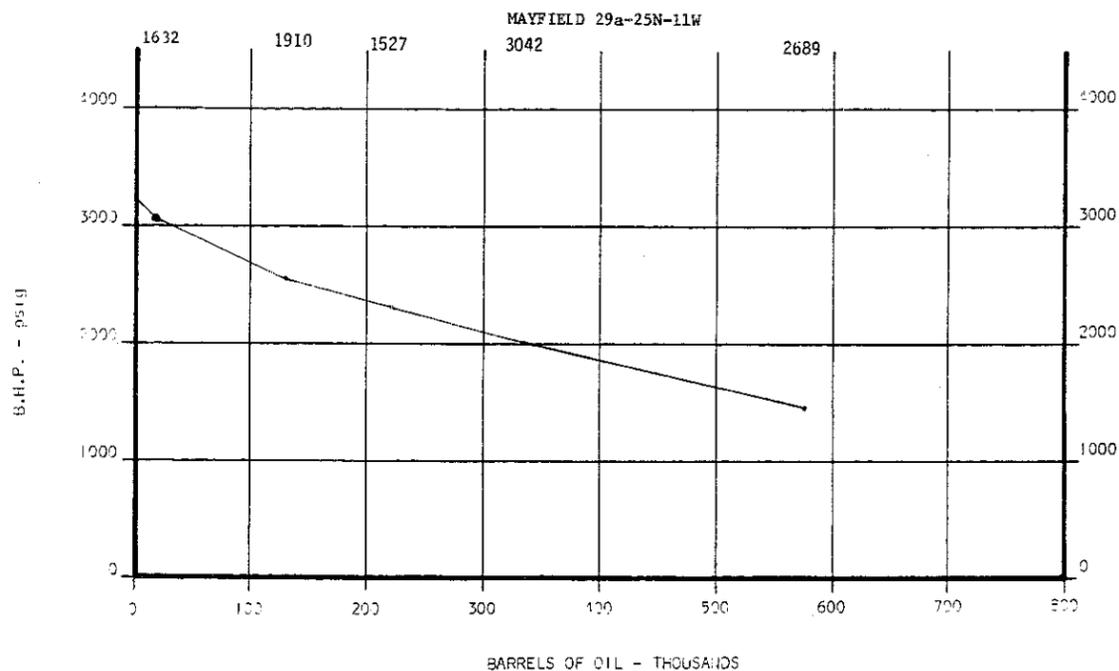
FIELD NAME MAYFIELD 29a-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-77 VIRGIN PRESSURE 3208 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5370 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Phoenix #3-29	3-77	84.4	6399	MARCH 31, 1977 3208	.30	3208		INITIAL TEST		1618
Gantner #5-29	10-77	93.3	6423	OCTOBER 21, 1977 3060	.28	3048	3208	3-31-77	- 160	1510
Phoenix #3-29	3-77	24	6399	OCTOBER 10, 1978 2588	.28	2584	3048	10-21-77	- 464	1590
Phoenix #3-29	3-77	42	6399	OCTOBER 17, 1979 2307	.30	2303	2584	10-10-78	- 281	1153
Phoenix #3-29	3-77	72	6399	OCTOBER 29, 1980 2008	.13	2006	2303	10-17-79	- 297	1593
Phoenix #3-29	3-77	24	6399	DECEMBER 15, 1980 1462	.21	1462	2006	10-29-80	-544	1200

FIELD NAME MAYFIELD 29B-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-80 VIRGIN PRESSURE 3049 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5015 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Prosch #6-29A	3-80	112	6361 TVD	3149	.32	3049		INITIAL TEST		3155
This well is drilled as a replacement well on the same 160-acre unit as is the Henschell #1-29A. There may be weak communication with the Henschell #1-29A (Mayfield 29-25N-11W).										
Prosch 6-29A	3-80	28	6361 TVD	2570	56	2533	3049	3-10-80	-516	98

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME MAYFIELD 30-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-73 VIRGIN PRESSURE 3142 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5253 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Osband #1-30	9-73	113	6352	3129	.120	3129		INITIAL TEST		
Osband #1-30	9-73	1272	6352	3142	.160	3142		INITIAL TEST		
Osband #1-30	9-73	N.A.	6351	3084	.104	3084	3142	10-23-73	- 58	2427
Osband #4-30	2-76	111	6379	2879	.27	2876	3084	11-21-73	- 208	1204
Osband #4-30	2-76	69	6379	2637	.14	2635	2876	3-23-76	-241	2025
Osband #1-30	9-73	110.9	6352	2366	.12*	2368	2635	10-10-77	- 267	
Osband #4-30	2-76	120	6379	2553	.11	2552		NOT USED IN CALCULATIONS		1975
Osband #4-30	2-76	96	6379	2079	.13	2075	2368	2-21-78	- 293	1647

REMARKS:

FIELD NAME: MAYFIELD 30-25N-11W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM FEET			INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. CURRENT PRESS.	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE		
Osband #4-30	2-76	52	6379	1664	MARCH 31, 1981 .08	1663	2075	10-19-79	- 412	1324
Duff-Grant Farms 3-36A	4-83	43	6427 TVD	1975	MARCH 1, 1983 .535	1946	NOT USED IN CALCULATIONS			817 110

REMARKS:

STATE OF MICHIGAN

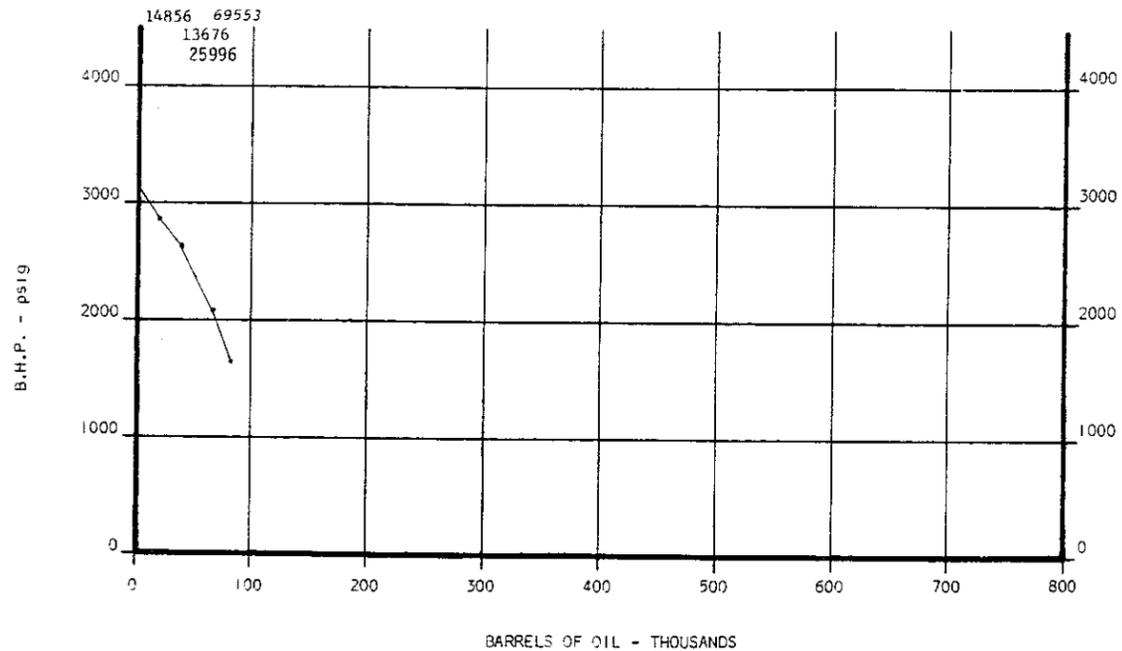
FIELD NAME MAYFIELD 31-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-76 VIRGIN PRESSURE 3250* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Bossingham #1-31	5-76	60	6100	JUNE 2, 1977 3067	.20	3067	3250	Assumed July, 1976	- 183	2266
Guernsey #3-31	8-79	71.5	6289	SEPTEMBER 29, 1979 3068	.284	3015	3067	6-2-77	- 52	2295 Pkr.

* Assumed

STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 MAYFIELD 30-25N-11W



FIELD NAME MAYFIELD 33-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-77 VIRGIN PRESSURE 3270 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. CURRENT PRESS.	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
St. Mayfield #1-33A	3-77	205.4	6504 TVD	MARCH 19, 1977 3270	N.A.	3270	INITIAL TEST			
St. Mayfield #1-33A	3-77	50	6504 TVD	OCTOBER 6, 1981 1170	.02	1170	3270	3-19-77	- 2100	973
St. Mayfield 1-33A	3-77	10 da	6504 TVD	AUGUST 27, 1982 989	.02	989	1170	10-6-81	-181	828

FIELD NAME MAYFIELD 33B-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE _____ VIRGIN PRESSURE 3352 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5555 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Mayfield 1-33 (Reef)	11-81	weeks	5580 TVD	3210	108	3210	3352	11-9-81	-142	2506
DECEMBER 29, 1981										

FIELD NAME PARADISE 3-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 9-75 VIRGIN PRESSURE 3459 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5577 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Chamberlain 1-3	9-75	62.9	6627	3459	N.A.	3459		INITIAL PRESSURE		2727
SEPTEMBER 30, 1975										
Chamberlain #1-3	9-75	25 5	6611	1448	.043	1448	3459	9-30-75	-2011	1170
OCTOBER 4, 1978										
Chamberlain 1-3	9-75	63 da	6614	1191	.04	1191	1448	10-4-78	-257	985
AUGUST 17, 1982										

FIELD NAME PARADISE 3A-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 3-83 VIRGIN PRESSURE 3500* NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5792 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Thoresen #1-3B	3-83	91	6845 TVD	2114	561	2114		INITIAL TEST		1334 1554
MARCH 7, 1983										

* = Estimated

FIELD NAME PARADISE 4-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 1-83 VIRGIN PRESSURE 3692 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5727 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Hoflin #2-4C	4-83	51	6722 TVD	3040	542	3040		INITIAL TEST		2321 1217
JANUARY 22, 1983										
Hoflin #2-4C	4-83	20	6516 TVD	3198	648	3331		INITIAL TEST		2237
MARCH 28, 1983										

STATE OF MICHIGAN

FIELD NAME PARADISE 7-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-80 VIRGIN PRESSURE 3696 NO. PRODUCING WELLS _____

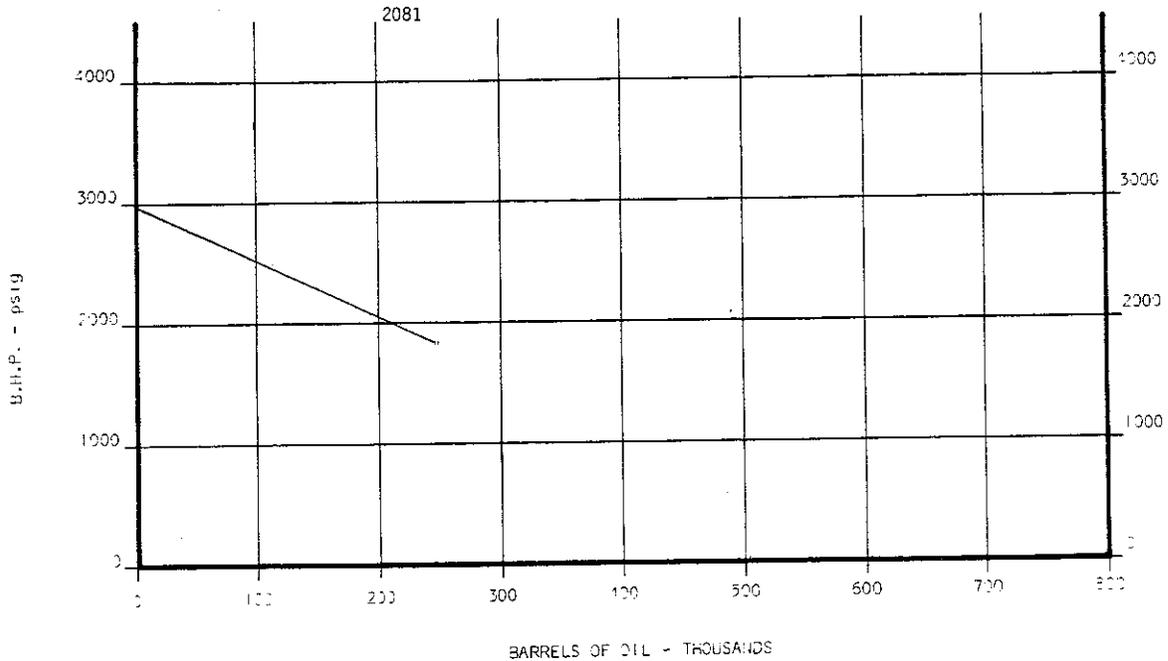
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5097 CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Fewless #1-7a	9-80	N. A.	6157 TVD	3696	SEPTEMBER .104	16, 1980 3696			INITIAL TEST	2953	1345
Van Pelt #1-7	11-81	120	6520	3188	NOVEMBER 7, 1981 .108	3151	3696	9-16-80	- 545	2561	PKR

STATE OF MICHIGAN

FIELD NAME PARADISE 7A-25N-10W COUNTY GRAND TRAVERSE TOWNSHIP PARADISE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 4-83 VIRGIN PRESSURE 3484 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5408 CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Wall #4-6A	4-83	14.3	6480 TVD	3484	MAY 12, 1983 .103	3484			INITIAL TEST	2805	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
MAYFIELD 4-25N-11W



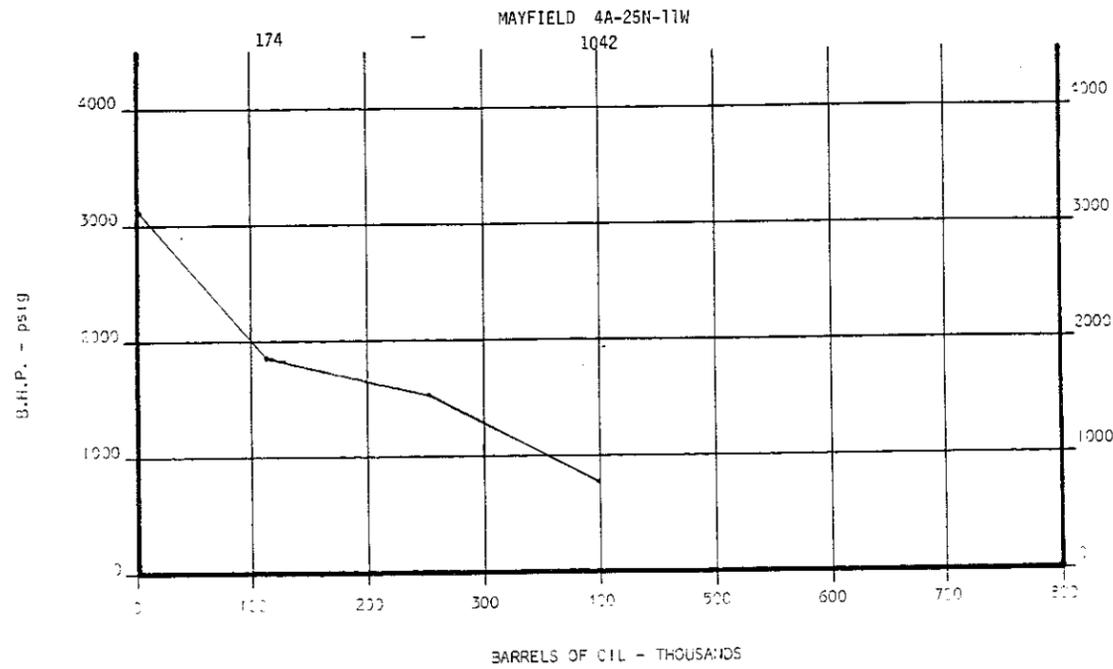
STATE OF MICHIGAN

FIELD NAME MAYFIELD 4a-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-77 VIRGIN PRESSURE 3121 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ CURRENT PRESS.	4793 FEET PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Fraser #3-4	6-77	112.4	5859	JUNE 2, 1977 3121	.30	3121	INITIAL PRESSURE			1458
Zimmerman #1-9a	6-79	48	5841 TVD	JUNE 25, 1979 1853	.534	1871	3121	6-2-77	-1250	0 60
Bell #1-5	Plugged before completed	13.5	5865	JANUARY 15, 1981 1645	.30*	1654	1871	6-25-79	- 217	522
Fraser 6-4C	9/83	38	5911 TVD	772	INCOMPLETE BUILDUP AT 16 psi/hr SEPTEMBER 21, 1983 .419	751	1654	1/15/81	-903	510

* Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



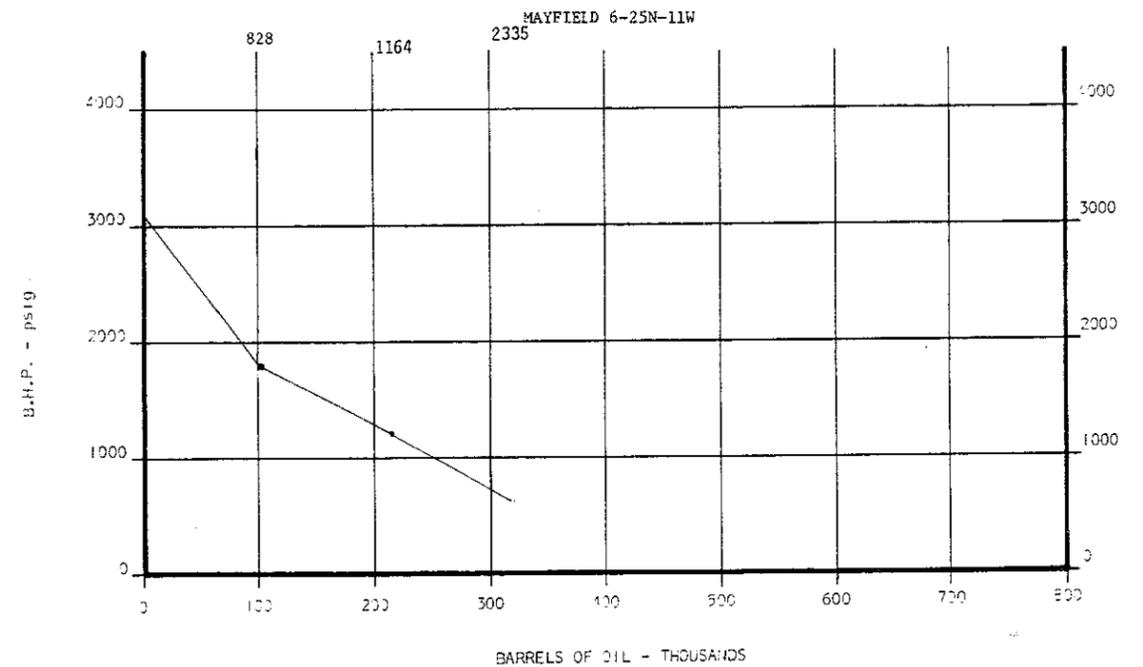
FIELD NAME MAYFIELD 6-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-75 VIRGIN PRESSURE 3064 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 4654 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Weber #1-6	2-75	42	5735	3064	FEBRUARY 6, 1975 .297	3064	INITIAL TEST		1462	
Weber #1-6	2-75	51	5736	1769	OCTOBER 4, 1977 .35	1769	3064 2-6-75	- 1295	1230	
Weber #1-6	2-75	72	5735	1203	OCTOBER 29, 1978 .09	1202	1769 10-4-77	- 567	1021	
Weber #1-6	2-75	31	5735	633	OCTOBER 31, 1979 .02	633	1202 10-29-78	- 569		

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

FIELD NAME Mayfield 4B-25N-11W COUNTY Grand Traverse TOWNSHIP Mayfield DATE OF TESTS _____
 PRODUCING FORMATION Sal - Niag DISCOVERY DATE 7/83 VIRGIN PRESSURE 3168 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Weber 2-4	7/83	72	6021	3168	AUGUST 8, 1983 .333	3168	INITIAL TEST		1522 1383	
Weber 2-4	7/83	72	6021	3077	AUGUST 12, 1983 .290	3077	INITIAL TEST		1470 1216	



STATE OF MICHIGAN

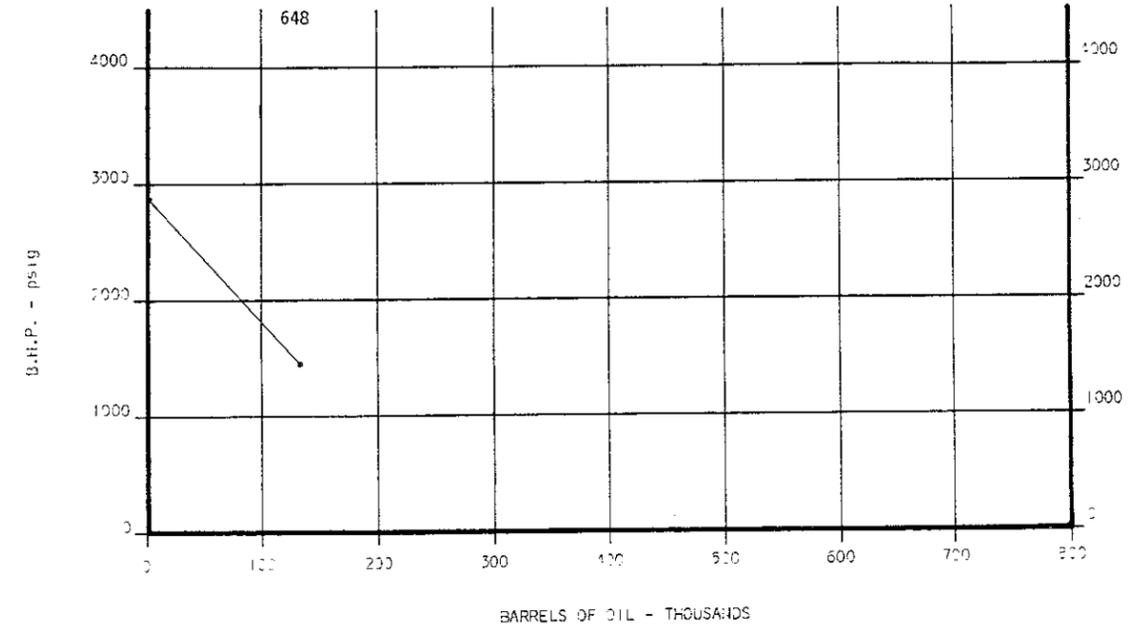
FIELD NAME MAYFIELD 8-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-81 VIRGIN PRESSURE 2800* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 4938 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
Weber #3-8C	9-81	39.3	6048 IVD	2418	SEPTEMBER 28, 1981 .573	2418	INITIAL	TEST		649	706
Berry 2-8A	5/83	42	5922 TVD	1921	FEBRUARY 9, 1983 .50*	1981	2418	9/28/81	-437		

* = Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
 RESERVOIR CUMULATIVE OIL PRODUCTION

Mayfield 9-25N-11W



STATE OF MICHIGAN

FIELD NAME MAYFIELD 9-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-77 VIRGIN PRESSURE 2881 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 4994 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
Bauer Mikowski #8-16b 6-77	23.2	6120 IVD	2881	39	SEPTEMBER 22, 1977	2881	INITIAL	TEST			
Zimmerman #2-9A	10-77	24.3	6030 IVD	1432	OCTOBER 24, 1979 .295	1446	2881	9-22-77	- 1435	775	Pkr.

The Bauer Mikowski #8-16b and Zimmerman #2-9A may be located in separate reefs and/or pressure systems

STATE OF MICHIGAN

FIELD NAME MAYFIELD 10-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-74 VIRGIN PRESSURE 5102 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5220 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
Steinbach #2-10	11-74	61.5	6309 IVD	3102	NOVEMBER 15, 1974 .320	3102	INITIAL	TEST		1532	
Duncan #4-10A	2-75	3	6287 IVD	3095	FEBRUARY 5, 1975 .24	3096	INITIAL	TEST		1562	
Steinbach 2-10	11-74	28	6299 IVD	2866	OCTOBER 7, 1975 .23	2868	3102	11-15-74	- 234	1420	500
Steinbach #2-10 Duncan #4-10A	11-74 2-75	42.5 43.5	6309 IVD 6287 TVD	2664 2648	MAY 11, 1976 .31 .27 Average	2660 2650 2655	2868	10-7-75	- 213	1145 1033	Pkr.
Zimmerman #12-10	3-77	60.5	6335	2460	MARCH 29, 1977 .32	2451	2655	5-11-76	- 204	1024	
Duncan #4-10A	2-75	24	6282 TVD	2386	APRIL 14, 1977 .255	2389	2451	3-29-77	- 62	964	
Duncan #4-10a	2-75	24.5	6287 IVD	2088	MAY 5, 1978 .27	2090	2389	4-14-77	- 299	930	
Steinbach #2-10	11-74	25.5	6308 IVD	1856	APRIL 12, 1979 .29	1847	2090	5-5-78	- 243	1456	
Steinbach 2-10	11-74	28	6309 IVD	1604	APRIL 9, 1980 .46	1604	1847	4-12-79	- 243	1224	

FIELD NAME: MAYFIELD 10-25N-11W

STATE OF MICHIGAN

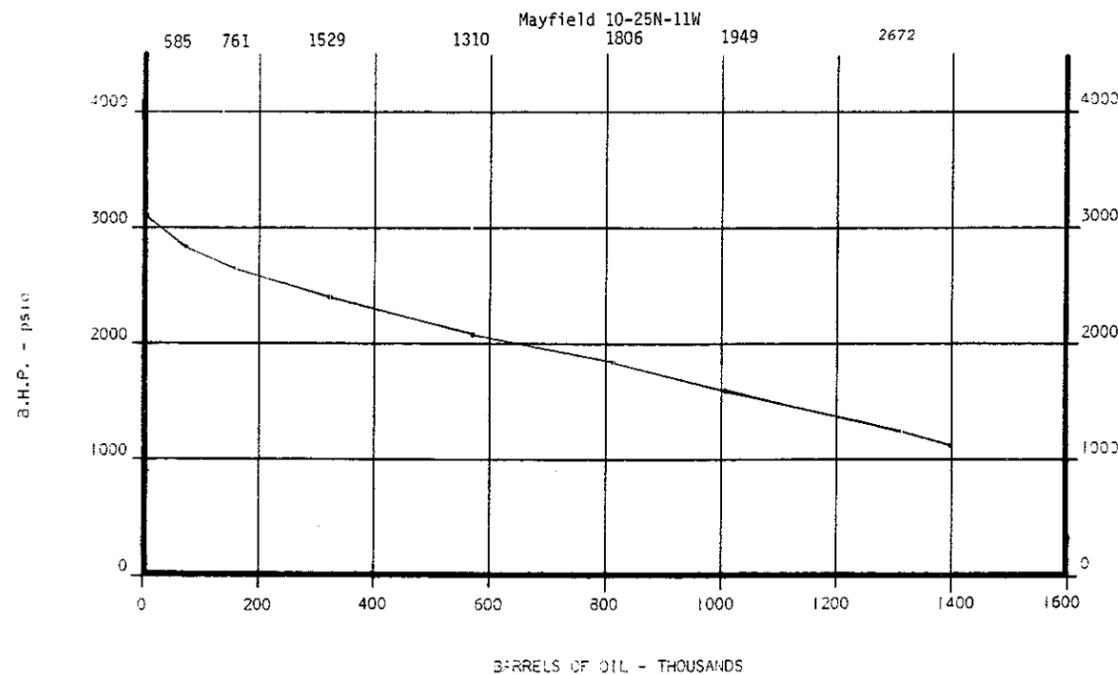
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM		DATE OF PREV. PRESSURE	INTERNAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5220 FEET	PREVIOUS PRESSURE			
Zimmerman #12-10	3-77	52	6335	1235	.19	1230	1604	4-9-80	- 374	1008
Duncan 17-10 A	9/82	60.3	6327 TVD	1137	.20*	1131	1230	10/27/81	-99	-- --

REMARKS:

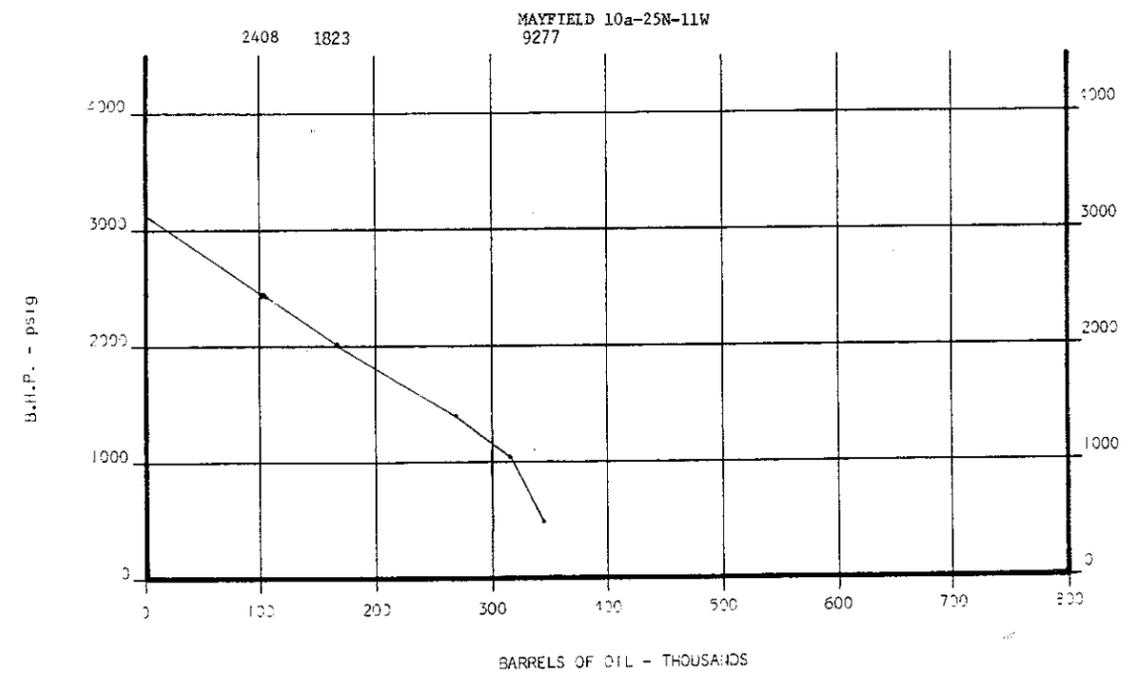
FIELD NAME MAYFIELD 10a-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-76 VIRGIN PRESSURE 3109 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM		DATE OF PREV. PRESSURE	INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5271 FEET	PREVIOUS PRESS.			
Jefferson #7-10	3-76	38	6343	3109	MARCH 29 N.A.	3109		INITIAL PRESSURE		1542
Jefferson #7-10	3-76	24	6342	2446	OCTOBER 3, 1977 .30	2446	3109	3-29-76	- 663	1414
Jefferson #7-10	3-76	24	6342	2021	OCTOBER 18, 1978 .29	2018	2446	10-5-77	- 428	1333
Jefferson #7-10	3-76	70	6342	1671	OCTOBER 30, 1979 .09	1670	2018	10-18-78	- 348	1358
Jefferson #7-10	3-76	312	6343	1419	OCTOBER 1, 1980 .06	1418	1670	10-30-79	- 252	1182
Jefferson 7-10	3/76	49.5	6342	1028	APRIL 8, 1982 .05	1028	1418	10/1/80	-390	851
Jefferson 7-10	3/76	25	6343	473	DECEMBER 14, 1983 .10	473	1028	4/8/82	-555	384

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



STATE OF MICHIGAN

FIELD NAME MAYFIELD 10b-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-76 VIRGIN PRESSURE 3166 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5126 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Steinbach #8-10	4-76	16.7	6198	3166	APRIL 23, 1976 .30	3166	INITIAL TEST			1461
Steinbach #8-10	4-76	72	6199	2234	OCTOBER 15, 1977 .42	2234	3166	4-23-76	- 932	108
WATERFLOOD PROJECT BEGUN APRIL 25, 1979										
Steinbach 15-10A	11-81	180	5962 TVD	2142	NOVEMBER 9, 1981 .21	2189	2234	10-15-77	- 45	805

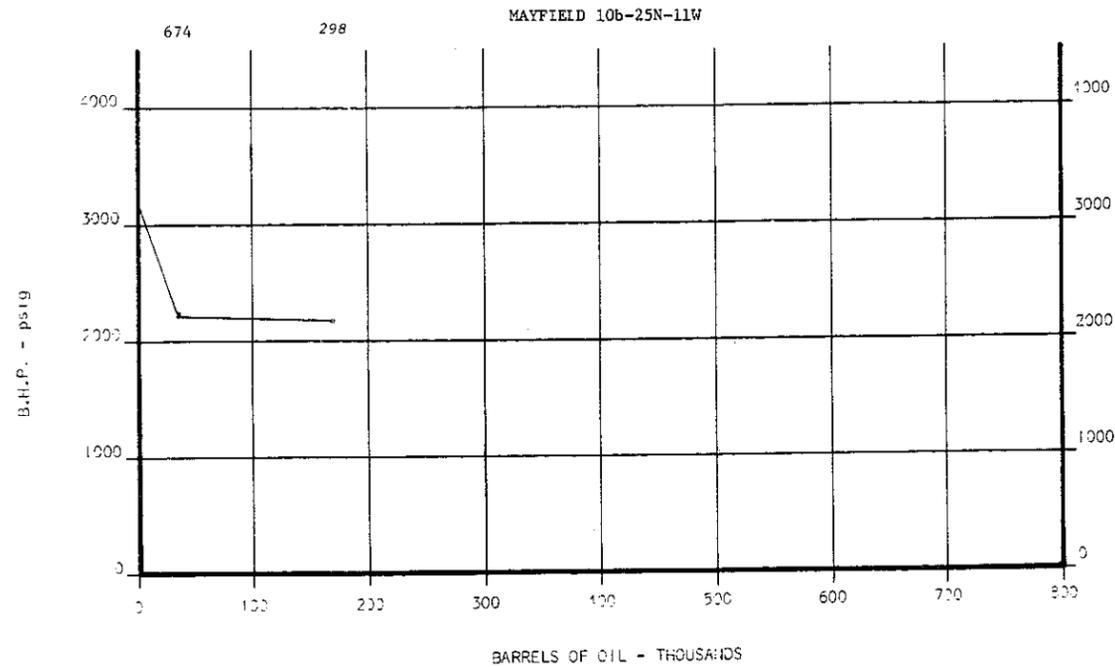
STATE OF MICHIGAN

FIELD NAME MAYFIELD 11-25N-1W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-76 VIRGIN PRESSURE 3128 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5283 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Schmuckal #3-11	11-76	68.7	6370	3128	NOVEMBER 23, 1976 N.A.	3128	INITIAL PRESSURE			
Schmuckal #3-11	11-76	17 Days	6371	1254	JANUARY 25, 1978 .037	1254	3128	11-23-76	- 1874	1020
Schmuckal #3-11	11-76	55.5	6371	389	JANUARY 16, 1980 .01	389	NOT USED IN CALCULATIONS			330
Schmuckal 3-11	11-76	--	6370	400	JANUARY 27, 1982 .02	400	1254	1-25-78	-854	331

STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME MAYFIELD 12-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-74 VIRGIN PRESSURE 3574 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5174 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Rawlings #1-12	12-74	42	6334	3574	DECEMBER 17, 1974 .118	3574	INITIAL TEST			
Rawlings #1-12	12-74	18	6334	2015	SEPTEMBER 21, 1977 .061	2015	3574	12-17-74	- 1559	1633
Rawlings #1-12	12-74	26	6334	1152	FEBRUARY 28, 1979 .031	1152	2015	9-21-77	- 863	960
Rawlings #1-12	12-74	42	6334	1003	MARCH 3, 1980 .026	1003	1152	2-28-79	- 149	830

STATE OF MICHIGAN

FIELD NAME MAYFIELD 12a-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-75 VIRGIN PRESSURE 3555 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5174 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Cronkhite #3-12	5-75	66	6500*	MAY 6, 1975 3573	.100*	3555		INITIAL TEST		2790
Cronkhite #3-12	5-75	N.A.	6499	NOVEMBER 15, 1976 3368	.100*	3355	3555	5-6-75	- 203	
Cronkhite #3-12	5-75	48	6499	JANUARY 25, 1978 1488	.039	1482	3352	11-15-76	- 1870	1234
Cronkhite #3-12	5-75	49.5	6499	FEBRUARY 28, 1979 1271	.036	1265	1482	1-25-78	- 217	1050
Cronkhite #3-12	5-75	45.9	6499	MARCH 5, 1980 943	.025	939	1265	2-28-79	- 326	775
Cronkhite 3-12	5-75	96	6494	MAY 11, 1982 274	.01	272	939	3-5-80	-667	235

* Assumed

STATE OF MICHIGAN

FIELD NAME MAYFIELD 15-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-76 VIRGIN PRESSURE 3324 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5439 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Mitchell #1-15	5-76	.5	6566	JUNE 10, 1976 3324	.141	3324		INITIAL TEST		2437
Bauer #2-15	5-78	21.8	6569	MAY 12, 1978 2025	.10*	2024	3324	6-10-76	-1300	1596
Bauer #2-15	5-78	--	6551	OCTOBER 9, 1981 561	.025	561	2024	5-12-78	- 1463	455 1520

* Estimated

STATE OF MICHIGAN

FIELD NAME MAYFIELD 13-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-77 VIRGIN PRESSURE 3660 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5420 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Medford #4-13A	5-77	91.1	6523 TVD	MAY 19, 1977 3648	.111	3648		INITIAL PRESSURE		
Schaub #6-13	4-78	23	6597	APRIL 13, 1978 3669	.10*	3660		INITIAL PRESSURE		
Schaub #6-13	4-78	27.5	6597	FEBRUARY 27, 1979 5492	.21	5473		NOT USED IN CALCULATIONS		2052
Medford #4-13a	5-77	775	6524 IVD	MARCH 1, 1979 3588	.11	3588	3660	4-15-78	- 72	2850
Medford #4-13A Schaub #6-13	5-77 4-78	41.8 18	6524 IVD 6647	MARCH 3 (Medford #4-13A), 10 (Schaub #6-13), 1980 3336 3311	.098 .10	3336 3297				2700
Schaub 6-13	4-78	66	6597	Average 3317		3588	3317	3-1-79	- 291	
Schaub 6-13	4-78	66	6597	JANUARY 26, 1982 3000	.11	2990	3317	3-10-80	-327	2375
Medford 4-13A Schaub 6-13	5-77 4-78	4 DA 6 DA	6523 TVD 6597	OCTOBER 13-19, 1982 2850	.08	2850				2269
Schaub 6-13	4-78	6 DA	6597	2856	.12 AVG	2845 2848	2990	1-26-82	-142	

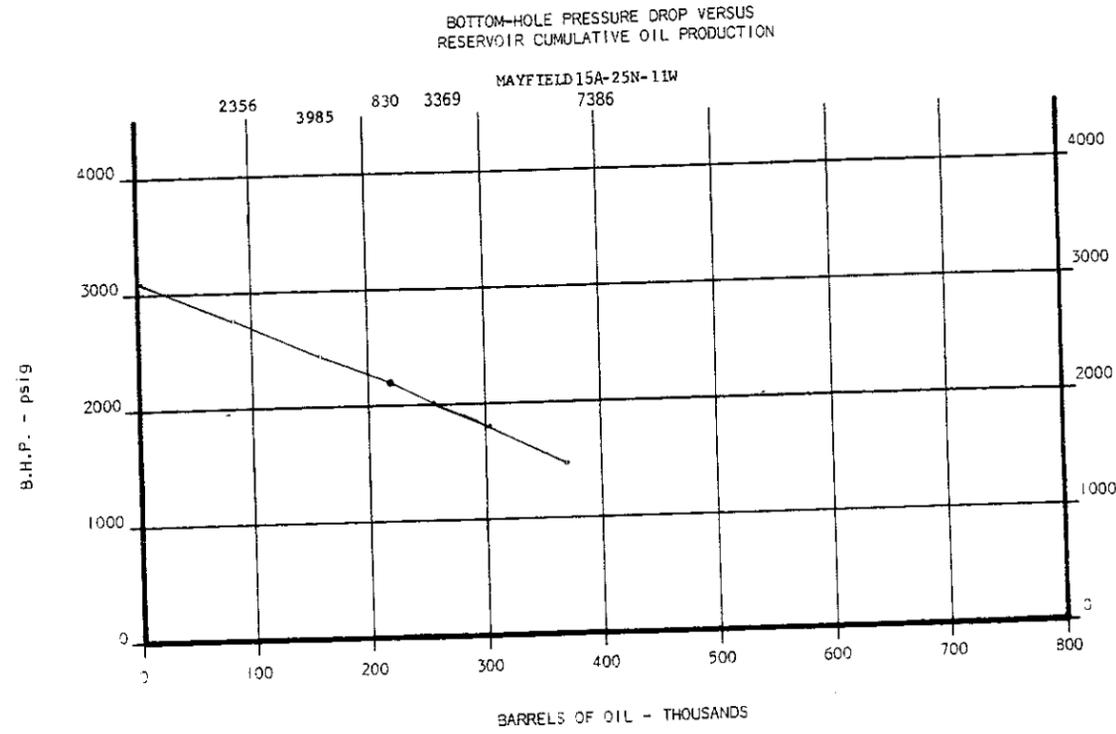
* Estimated

STATE OF MICHIGAN

FIELD NAME MAYFIELD 15A-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-74 VIRGIN PRESSURE 3107 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5372 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Weber #1-15	12-74	77.5	6408	JANUARY 2, 1975 3107	.300	3107		INITIAL TEST		1568
Weber #1-15	12-74	24	6408	MAY 12, 1976 2757*	.27	2770	3107	1-2-75	- 337	1475 Pkr.
Weber #1-15	12-74	27.5	6408	APRIL 15, 1977 2434	.30	2452	2770	5-12-76	- 318	1561 Pkr.
Weber #1-15	12-74	28	6408	MAY 2, 1978 2176	.28	2193	2452	4-15-77	- 259	1099
Weber #1-15	12-74	44	6408	MARCH 12, 1979 1994	.27	2007	2193	5-2-78	- 186	1568
Weber #1-15	12-74	26	6408	APRIL 7, 1980 1793	.15	1802	2007	3-12-79	- 205	1422
Weber 1-15	12-74	27	5408	MAY 15, 1982 1445	.04	1447	1802	4/7/80	-355	1182

* Estimated



STATE OF MICHIGAN

FIELD NAME MAYFIELD 16-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TEST
 RECORDING NAME Sal.-Niag. DISCOVERY DATE 12-3-72 VIRGIN PRESSURE 3130 NO. PRODUCING WELLS

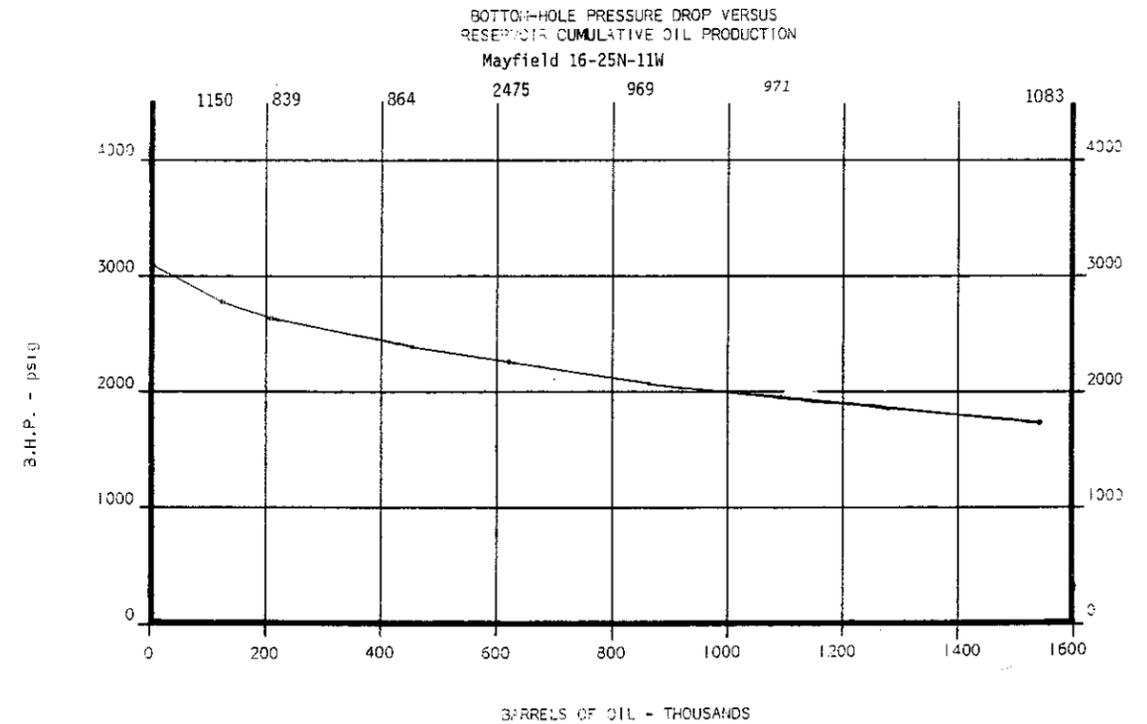
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5262 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Wurm #1-16	12-72	21.5	6375	3118	.270	3118	Initial	test			
Grant Farms 2-16	4-73	17	6389	3125	.295	3130	3118	4-72	+ 12		
Wurm 1-16	12-72	24	6375	2842	.260	2838	3130	5-3-73	- 292	1131	Pkr.
Wurm #1-16	12-72	26	6375	2777	.270	2773	2838	10-8-74	- 65	1261	1840
Wurm #1-16	12-72	24.5	6375	2839	.280	2639	2773	4-1-75	- 134	1174	1750
Wurm #1-16	12-72	24.25	6375	2524	.27	2520				1097	Pkr.
Grant Farms #2-16	4-73	24	6383	2531	.24	2530				1092	
				Average		2525	2639	10-7-75	- 114		
Wurm #1-16	12-72	29.5	6375	2391	.36	2391	2525	5-12-76	- 134	962	Pkr.

REMARKS:

MAYFIELD 16-22N-11W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5262 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Wurm #1-16	12-72	24	6375	2240	.28	2240	2391	4-15-77	- 151	834	
Wurm #1-16	12-72	25	6375	2080	.30	2076	2240	5-3-78	- 164	727	
Wurm #1-16	12-72	24.5	6375	1968	.29	1968	2076	10-30-79	- 108	637	
Wurm 1-16	12/72	25	6375	1718	.44	1718	1968	4/2/81	-250	908	PKR

REMARKS:

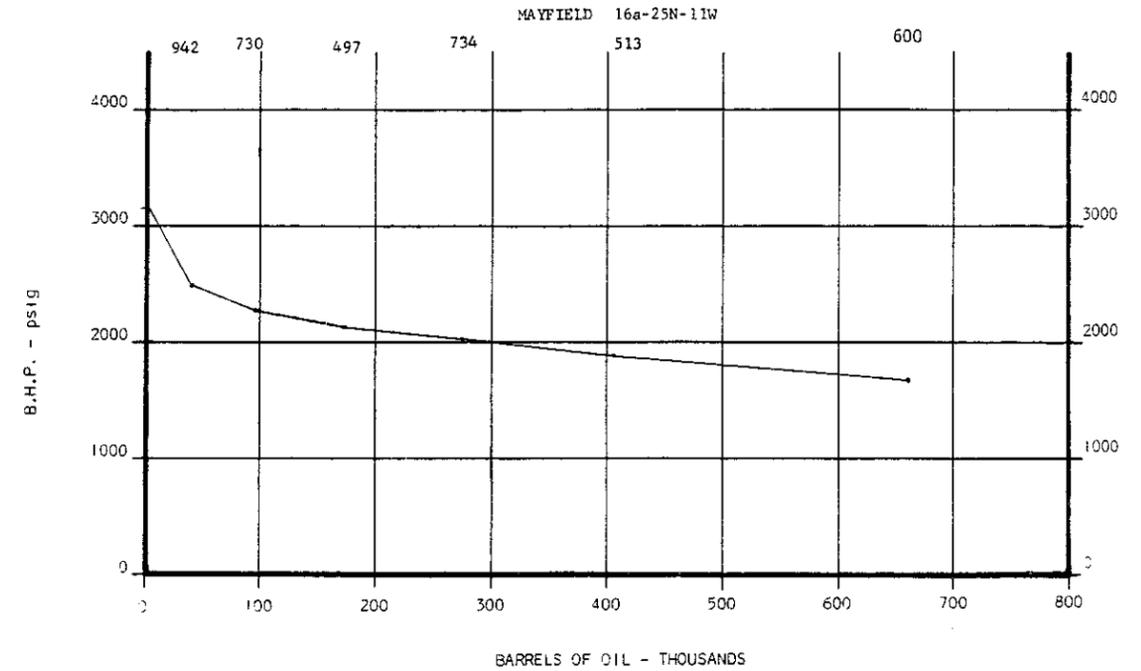


FIELD NAME MAYFIELD 16a-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-74 VIRGIN PRESSURE 3152 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5243 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Kochevar-Dracka #3-16b	1-74	65	6342 TVD	3152	.295	3152	Initial Test				
			FEBRUARY 1, 1974								
			OCTOBER 10, 1974								
Kochevar-Dracka #3-16b	1-74	26	6346 TVD	2519	.290	2513	3152	2-1-74	- 639	963	Pkr
			APRIL 1, 1975								
Kochevar-Dracka #5-16b	1-74	24	6343 TVD	2288	.340	2283	2513	10-10-74	- 230	822	1100
			OCTOBER 7, 1975								
Kochevar-Dracka #3-16b	1-74	24.8	6343 TVD	2157	.31	2157	2283	4-1-75	- 126	775	1000
			MAY 15, 1976								
Kochevar-Dracka #3-16b	1-74	25.5	6343 TVD	2023	.31	2018	2157	10-1-75	- 139	676	Pkr
			APRIL 15, 1977								
Weber Dracka #3-17	11-74	27	6372	1895	.32	1884	2018	5-13-76	- 134	575	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS - Page 2

MAYFIELD 16a-25N-11W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5243 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Weber Dracka #3-17	11-74	68	6372	1687	.29	1674	1884	4-15-77	- 210	162	

REMARKS:

FIELD NAME MAYFIELD 17-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-11-74 VIRGIN PRESSURE 3130 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 4855 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Fox #1-17	1-74	63	5924	3130	.310	3130	Initial Test			1430	
			JANUARY 13, 1974								
			JULY 25, 1974								
Wolf-Olszewski #2-17	7-74	96	6096	3030	.340	2991	3130	1-13-74	- 139		
			OCTOBER 8, 1974								
Fox #1-17	1-74	26	5944	2801	.300	2791	2991	7-25-74	- 200	1189	Pkr
			APRIL 1, 1975								
Fox #1-17	1-74	24	5944	2335	.290	2325	2791	10-8-74	- 466	926	725
			OCTOBER 7, 1975								
Wolf-Olszewski #2-17	7-74	23.3	6095	2247	.290	2214	2325	4-1-75	- 111	904	1325
			MAY 13, 1976 (#2-17), MAY 14, 1976 (#1-17)								
Wolf #2-17	7-74	27	6096	2136	.29	2131				829	Pkr
Fox #1-17	1-74	53.25	5944	2109	.32	2103				806	
			Average								
				2117		2214		10-7-75	- 97		
			APRIL 19, 1977								
Fox #1-17	1-74	29.5	5944	1954	.29	1948	2117	5-13-76	- 169	1547	

REMARKS:

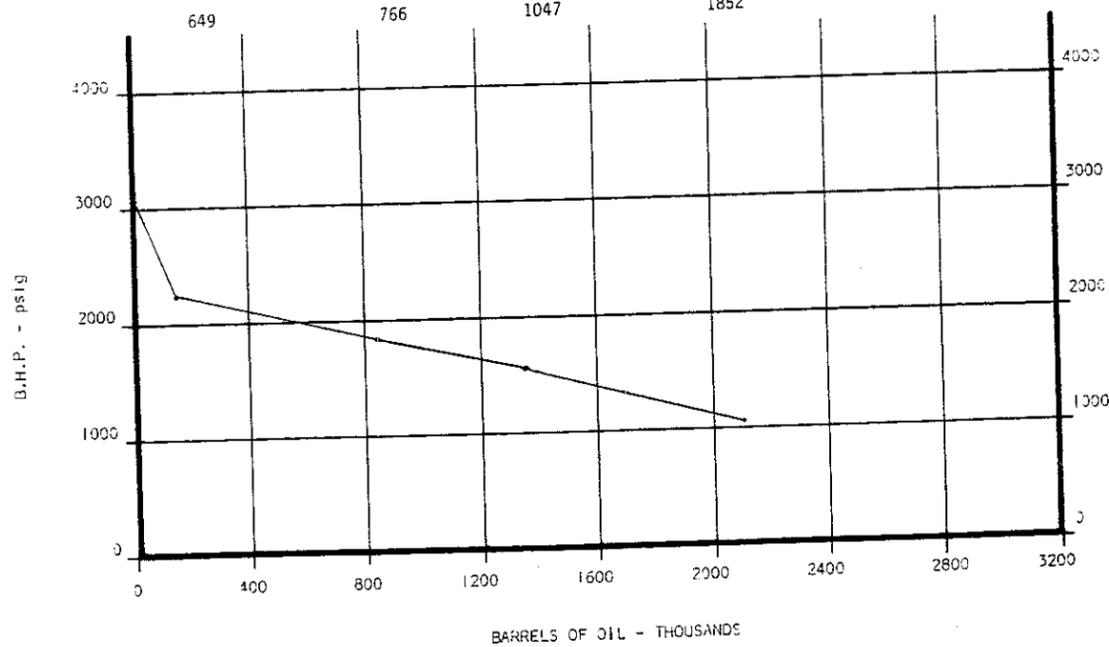
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 4855 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Fox #1-17	1-74	25	5944	1816	MAY 3, 1978 .06	1815	1948	4-19-77	- 133	1504
Cassell #5-17	6-78	44.7	5925	1805	JUNE 15, 1978 .309	1799	1815	5-3-78	- 16	550
Fox #1-17	1-74	26.5	5971	1696	APRIL 12, 1979 .120	1689	1799	6-15-78	- 110	
Fox #1-17	1-74	25	5944	1532	APRIL 7, 1980 .09	1530	1689	4-12-79	- 159	1275
Fox 1-17	1/74	25	6000	1042	DECEMBER 14, 1983 .24	1024	1530	4/7/80	-506	858

REMARKS:

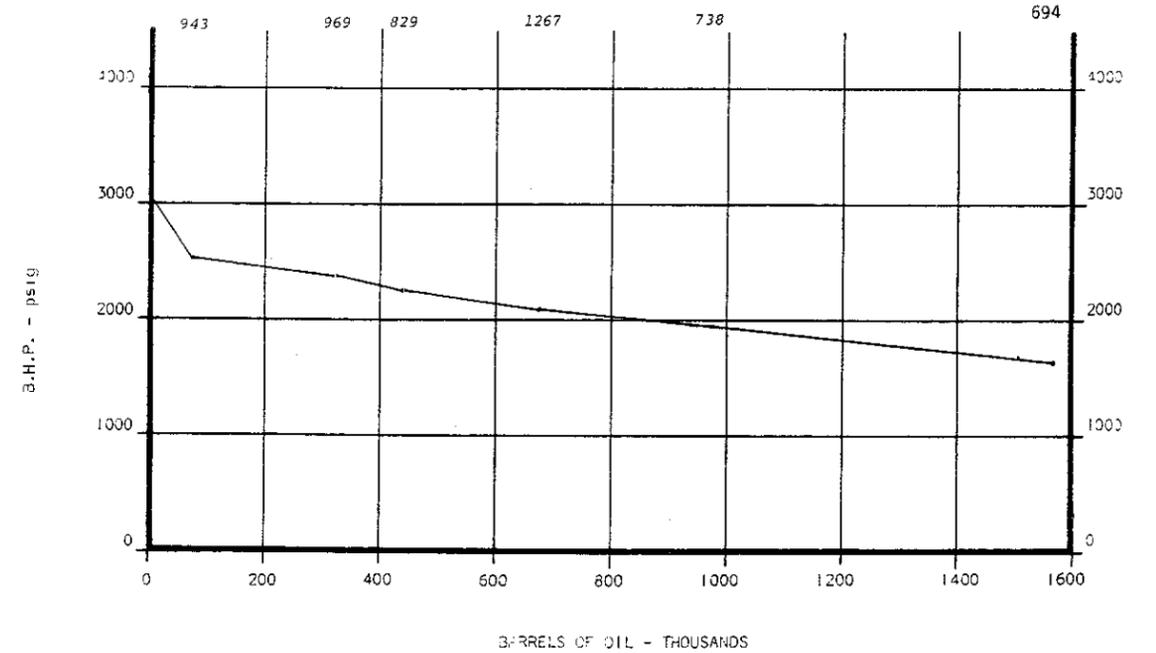
FIELD NAME MAYFIELD 18-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NLAG. DISCOVERY DATE 7-75 VIRGIN PRESSURE 3063 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 4838 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Longcore 2-18	7-75	43.2	5885 IVD	3063	JULY 16, 1975 N.A.	3063		INITIAL TEST		1469
Longcore 2-18	7-75	24	5885 TVD	2552	OCTOBER 26, 1976 .22	2548	3063	7-16-75	- 515	1233
Stevens #4-18A	5-77	739	5839 IVD	2942	MARCH 31, 1977 .27	2963		NOT USED IN CALCULATIONS		1240
State Grant #1-13	7-77	69	5964	2606	JULY 19, 1977 .340	2605	2548	10-26-76	+ 57	1108
State Grant #1-13	7-77	25	5964	2393	MAY 5, 1978 .50	2392	2605	7-19-77	- 213	973
State Grant #1-15	7-77	96	5964	2270	NOVEMBER 23, 1978 .50	2269	2392	5-5-78	- 123	828
St. Grant #1-13	7-77	27	5964	2112	OCTOBER 31, 1979 .28	2106	2269	11-23-78	- 163	716
St. Grant #1-13	7-77	120.5	5864	1927	APRIL 6, 1981 .31	1957	2106	10-31-79	- 149	574
Longcore 2-18	7/75	25	5885 TVD	1631	DECEMBER 16, 1983 .27	1631	1957	4/6/81	-326	430

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION MAYFIELD 17-25N-11W



BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION MAYFIELD 18-25N-11W

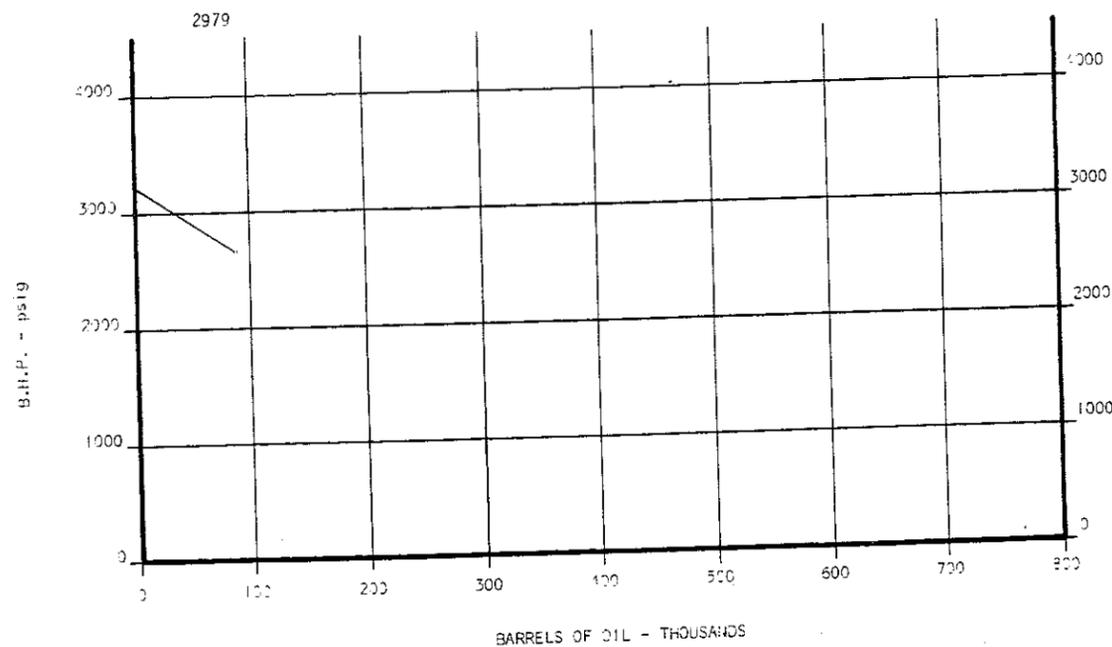


FIELD NAME MAYFIELD 18a-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-75 VIRGIN PRESSURE 3180 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5143 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Stevenson #3-18	9-75	154	6202	3170	.26	3110				1582
				SEPTEMBER 29, 1975						
Stevenson #3-18	9-75	Since Completion	6202	3180	.27	3180				1558
				NOVEMBER 26, 1975						
Stevenson #3-18	9-75	84	6122	3115	.29	3138				1506
				JANUARY 13, 1976						
Stevenson #3-18	9-75	Since Jan 1976	6156	3029	.29*	3042				1243
				JUNE 10, 1977						
Bowman #6-19	7-78	63.6	6204	2442	.29	2481				967
				JULY 3, 1978						
Stevenson #3-18	9-75	94	6156	699	.20	705				571
				APRIL 20, 1979						
St. Mayfield-Bowman #7-19	8-81	111.2	6134	2586	.32	2604	3180	11-26-75	- 576	1090
				AUGUST 10, 1981						

* Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 MAYFIELD 18A-25N-11W



FIELD NAME MAYFIELD 19-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-73 VIRGIN PRESSURE 3140 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 4870 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Mayfield 1-19	3-73	12	5920	3140	N.A.	3140				
				MARCH 14, 1973						
St. Mayfield 1-19	3-73	57	5922	3077	.12*	3077				2362
				JULY 15, 1975						
St. Mayfield 1-19	3-73	54	5921	2490	.12*	2490	3140	3-14-73	- 650	1948
				NOVEMBER 26, 1975						
St. Mayfield 1-19	3-73	48	5912	1695	.12*	1696	2490	11-26-75	- 794	
				OCTOBER 30, 1976						
St. Mayfield 1-19	3-73	64.2	5921	871	.40	871	1696	10-30-76	- 825	710
				AUGUST 21, 1979						
St. Mayfield 1-19	3-73	336	5921	543	.53	542	871	8-21-79	- 329	
				MARCH 27, 1980						

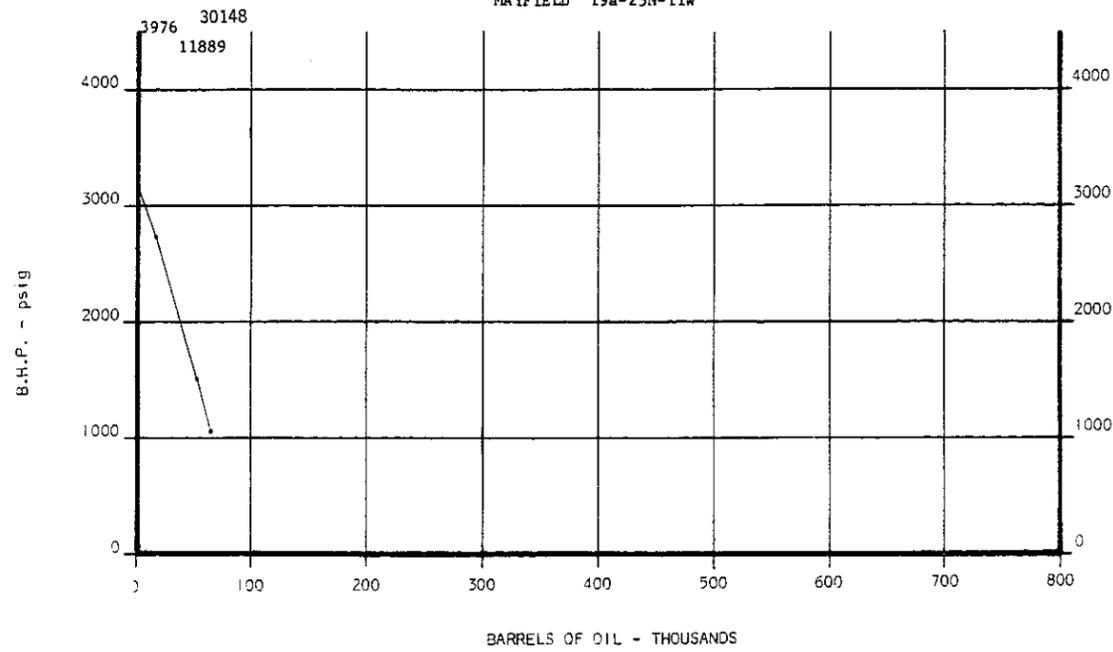
* Assumed

FIELD NAME MAYFIELD 19a-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-74 VIRGIN PRESSURE 3152 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5256 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Pulaski #3-19	1-74	66	6295	3152	.190	3152				
				FEBRUARY 1, 1974						
Pulaski #3-19	1-74	42	6320	2740	.30	2732	3152	2-1-74	- 420	1755
				OCTOBER 10, 1975						
				Initial test following rework						
Pulaski #3-19	1-74	28.5	6320	1520	.15	1516	2732	10-10-75	-1216	1227
				APRIL 19, 1977						
Pulaski #3-19	1-74	70	6321	1082	.17	1078	1516	4-19-77	- 438	875
				SEPTEMBER 15, 1978						

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME MAYFIELD 20-25N-11W (EAST) COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-75 VIRGIN PRESSURE 3122 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5236 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Dracka Phoenix #2-20 3-75		62.5	6243	3111	.31	3122			INITIAL TEST	1487
Dracka Phoenix #2-20 3-75		27	6243	2284	.32	2295	3122	3-18-74	- 827	1740
Dracka Phoenix #2-20 3-75		24	6243	1987	.30	1998	2295	4-19-77	- 297	1277
Dracka Phoenix 2-20 3-75		24	6243	1593	.29	1603	1998	5-3-78	- 395	1131
Dracka Phoenix 2-20 3/75		25	6243	1248	.12	1252	1603	4/8/80	-351	1028
Dracka Phoenix 2-20 3/75		27	6243	1072	.27	1072	1252	11/10/82	-180	895

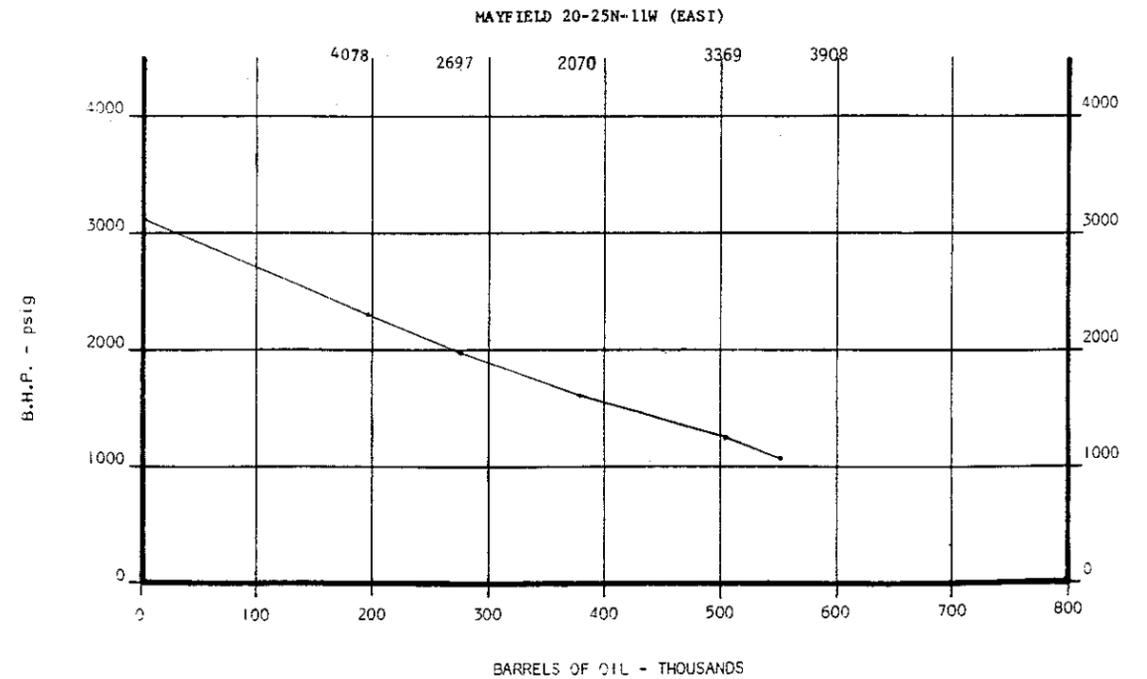
STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME MAYFIELD 19b-25N-11W COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-76 VIRGIN PRESSURE 3026 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. @ 5022 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
St.-Mayfield 5-19	1-76	162.8	6089	2924		JANUARY 28, 1976 N.A.	2924			INITIAL TEST	2160
St.-Mayfield 5-19	1-76	528	6093	3027	.314	FEBRUARY 12, 1976	3026			INITIAL TEST	2211
St. Grant Farms 1-24	7/83	72	6120	1144	.041	JULY 22, 1983	1143	3026	2/12/76	-1883	944 926

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

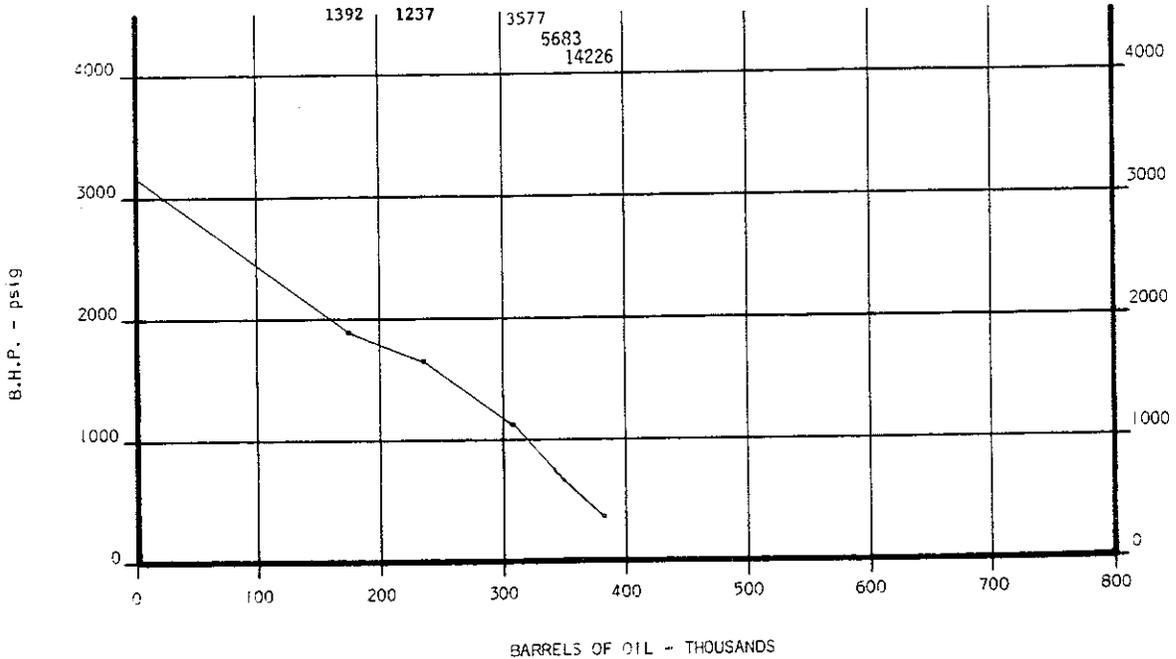


STATE OF MICHIGAN

FIELD NAME MAYFIELD 20-25N-11W (WEST) COUNTY GRAND TRAVERSE TOWNSHIP MAYFIELD DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-74 VIRGIN PRESSURE 3153 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5236 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
Hanson #1-20A	12-74	44	6266 TVD	3153	.280	3153					1556
				DECEMBER 23, 1974							
State-Mayfield #3-20	5-75	39	6193	3084	.3227	3109					1402
				MAY 12, 1975							
Hanson #1-20A	12-74	28.5	6266 TVD	1894	.08	1893	3153	12-23-74	- 1260		1543 Pkr
				MAY 18, 1976							
Hanson #1-20A	12-74	73	6270 TVD	1650	.05	1649	1893	5-13-76	- 244		1353 Pkr
				NOVEMBER 5, 1976							
HANSON #1-20A	12-74	48	6271 IVD	1135	.03	1135	1649	11-5-76	- 514		941
				OCTOBER 6, 1977							
Hanson #1-20a	12-74	24	6271 IVD	691	.05	690	1135	10-6-77	- 445		575
				OCTOBER 18, 1978							
Hanson #1-20A	12-74	21 days	6271 IVD	313	.33	312	690	10-18-78	- 378		20
				JUNE 25, 1980							

BOTTOM-HOLE PRESSURE DROP VERSUS
 RESERVOIR CUMULATIVE OIL PRODUCTION
 MAYFIELD 20-25N-11W (WEST)



FIELD NAME UNION 5-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-73 VIRGIN PRESSURE 3246 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5224 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Green-St. Union #1-5	9-73	N.A.	6080 IVD	3228	.120	3228					
Green St. Union #1-5	9-73	N.A.	6020 IVD	3237	.120	3246					2581
Green #1-5	9-73	18	6019 TVD	1747	.053	1751	3246	5-10-74	- 1495		1427
Green #1-5	9-73	103	6019 TVD	1495	.044	1498	1751	9-21-77	- 253		1240
Green #1-5	9-73	49	6080 TVD	1034	.01	1034	1498	7-10-78	- 464		876
Green 1-5	9-73	74	6080 TVD	888	.02	888	1034	10-15-81	-146		752

REMARKS:

STATE OF MICHIGAN

FIELD NAME UNION 6-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-75 VIRGIN PRESSURE 3259 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5088 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
State Union Pike #1-6	1-75	23	5982 IVD	3259	.1068	3259					2612
State Union Pike #1-6	1-75	N.A.	5982 IVD	3222	.10	3222	3259	1-8-75	- 37		2527
State Union Pike #1-6	1-75	72	5982 TVD	3154	.10	3154	3222	9-30-75	- 68		2518
State East Bay #1-1	6-76	73	5981	3095	.27	3092	3154	5-5-76	- 62		2411
St. Union Pike #1-6	1-75	9	5982 IVD	2144	.069	2144	3092	6-14-76	- 948		1731
St. East Bay #1-1	6-76	N.A.	5988	1667	.125	1665	2144	9-20-77	- 479		1359 132
St. Union Pike #1-6	1-75	28	5982 IVD	1320	.034	1320	1665	4-11-78	- 345		1115
St. East Bay #1-1	6-76	23.3	6060	1329	.278	1305	1320	3-15-79	- 15		1098 1106

UNION 6-26N-9W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5088 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. East Bay 1-1	6-76	30.5	5999	1258	SEPT 27, 1979 .06	1257	1305	4-5-79	- 48	1054 661
St. East Bay 1-1	6-76	18 days	5999	1162	FEBRUARY 17, 1980 .04	1161	1257	9-27-79	- 96	972 981
St. Union Pike 2-6	6-80	88	5986	1084	JUNE 30, 1980 .07	1085	1161	2-17-80	- 76	920
St. East Bay 1-1	6-76	168	5870	1055	SEPT 26, 1980 .03	1058	1085	6-30-80	- 27	896 781
St. East Bay #1-1	6-76	--	5999	836	SEPT 9, 1982 .03	835	1058	9-26-80	-223	710 690
St. East Bay #1-1	6-76	27	5999	725	NOVEMBER 11, 1983 .02	724	835	9-9-82	-111	624 621

REMARKS:

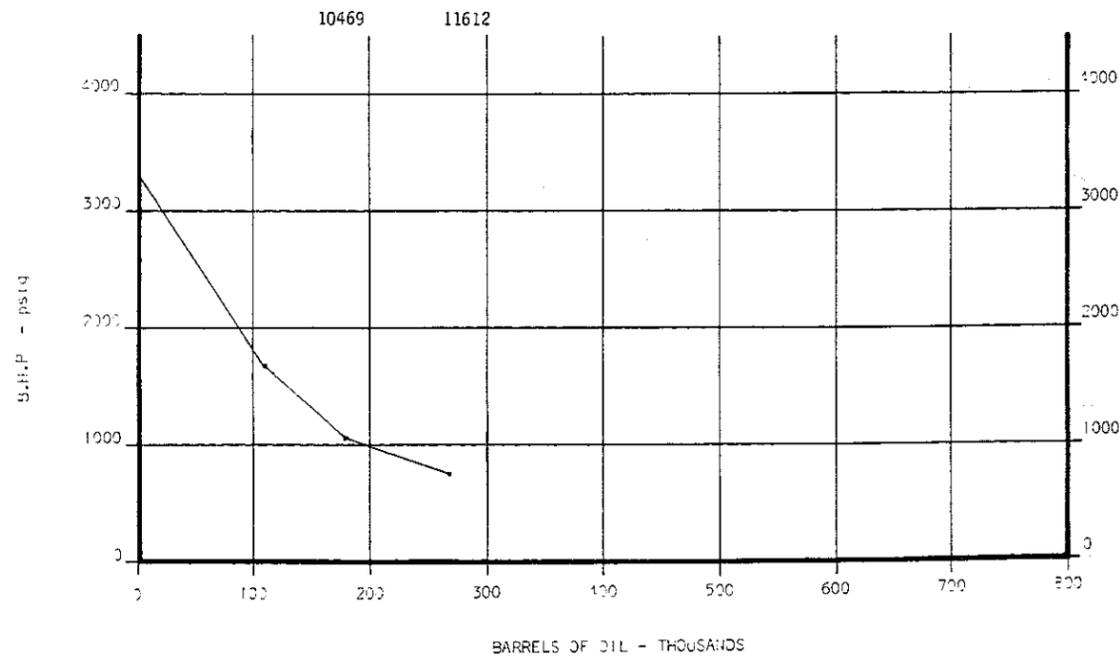
FIELD NAME UNION 8-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 10-17-70 VIRGIN PRESSURE 3345 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5337 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Union 1-8	10-70			APRIL 21, 1971 6200	3345	113	3345			2710
St. Union 1-8	10-70			MAY 1, 1971 6200	3329	097	3329			2962
St. Union 1-8	10-72			DECEMBER 23, 1972 6300	3333	.105	3343			2685
St. Union 1-8	10-72	69		OCTOBER 31, 1973 6315	3079	.112	3092	3343	12-23-72	- 251
St. Union 1-8	10-72			MARCH 5, 1974 (M.P.S.C. 4-Point test) 6564	2627	112*	2609	3092	10-31-73	- 483
St. Union 1-8	10-72	168		MAY 27, 1975 6316	2080	.112*	2068	2609	3-5-74	- 541
								Cumulative production to 5-31-75 3410 MMcf and 51,818 Bbls. Condensate		1697
St. Union 1-8	10-72	96		DECEMBER 9, 1977 6315	1104	.10*	1093	2068	5-27-75	- 975

REMARKS: * Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION

UNION 6-26N-9W



UNION 8-26N-9W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5337 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Union 1-8	10-72	145	6315	711	FEBRUARY 13, 1980 .019	709	1093	12-9-77	- 384	
St. Union 1-8	10-72	2 da	6316	407	FEBRUARY 12, 1983 .03	404	709	2-13-80	-305	339

REMARKS:

FIELD NAME UNION 8-26N-9W (EAST) COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-77 VIRGIN PRESSURE 3340 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5337 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Hanna #2-9	7-77	41	6307 IVD	3351		JULY 12, 1977 .099	3340	INITIAL TEST			
Hanna #2-9	7-77	67 7	6308 IVD	2058		OCTOBER 2, 1978 .057	3340	7-12-77	- 1288	1700	
Hanna #2-9	7-77	23	6308 IVD	1385		FEBRUARY 5, 1979 .033	2052	10-2-78	- 671	1190	

FIELD NAME UNION 11-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-15-72 VIRGIN PRESSURE 3597 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5680 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Union "B" 1-11	9-72	N.A.	6650	3597	N.A.	3597		INITIAL TEST			
St. Union "B" 1-11	9-72	N.A.	6557	1212	.035	1216	3597	9-72	- 2381	995	
St. Union "B" 1-11	9-72	73 3	6557	1202	.035	1205	1216	6-22-78	- 11	948	
St. Union "B" 1-11	9-72	93.3	6557	517	.035	520	1205	9-29-78	- 685	431	435

REMARKS:

FIELD NAME UNION 12-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-14-69 VIRGIN PRESSURE 2886 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5715 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Union 1-12	9-69					OCTOBER 7, 1969 6700	2886				
St. Union 1-12	9-69	64.5	6812	1367	.350	1328	2886				
St. Union 1-12	9-69	127	6812	1315	.405	1270	2886				
St. Union 1-12	9-69	703	6812	1463	.550	1401	2886				
				Ave.	1333		2886	7-69	- 1553		

REMARKS:

FIELD NAME UNION 12a-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-75 VIRGIN PRESSURE 3494 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5564 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Union #2-12	2-75	N.A.	6550	3494	.102	3494		INITIAL TEST			2826

FIELD NAME UNION 14-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-73 VIRGIN PRESSURE 3478 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5718 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Prizy-Schiff #1-14	10-73	66	6672	3478	.116	3478		INITIAL TEST			
Prizy-Schiff #1-14	10-73	47½	6672	1819	.050	1820	3478	10-8-73	- 1658	1467	1510
Prizy-Schiff #1-14	10-73	N.A.	6210	1513	.043	1533	1820	1-12-78	- 287	1252	1290
Prizy-Schiff #1-14	10-73	73.3	6672	1382	.047	1383	1533	6-16-78	- 150	1122	1132
Prizy-Schiff #1-14	10-73	72	6672	654	.073	655	1383	9-29-78	- 728	545	582

RE MARKS:

FIELD NAME UNION 16-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 5-75 VIRGIN PRESSURE 3373 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5332 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
Orth #1-16	5-75	24	6292	3373	.0959	3373		INITIAL PRESSURE			
Orth #1-16	5-75	12.3	6292	2783	.090	2783	3373	5-8-75	- 590	2246	2242
Orth #1-16	5-75	N.A.	6292	2603	.079	2603	2783	1-12-78	- 180	2110	
Orth #1-16	5-75	73.3	6292	2221	.068	2221	2603	4-25-78	- 382	1816	
Orth #1-16	5-75	121.5	6292	1057	.026	1057	2221	9-25-78	- 1164	894	876
Orth #1-16	5-75	116.5	6292	916	.026	916	1057	4-23-81	- 141	771	764

FIELD NAME UNION 16A-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-76 VIRGIN PRESSURE 3435 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5503 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
State Union #1-16	1-76	65.8	6447	3435		FEBRUARY 3, 1976 N.A.	3435	INITIAL TEST			2750
State Union #2-16	7-76	62.1	6506	3414		JULY 13, 1976 .12*	3410	INITIAL TEST			2769
State Union #1-16	1-76	N.A.	6439	3401		AUGUST 31, 1976 .12*	3402	3410	7-13-76	- 8	2745
St. Union #2-16	7-76	96	6506	2801		SEPTEMBER 19, 1977 .086	2798	3402	8-31-76	- 604	2241
St. Union #1-16	1-76	7 Days	6439	1731		NOVEMBER 8, 1977 .05	1731	2798	9-19-77	- 1067	1411
St. Union #2-16	7-76	27.5	6506	1890		AUGUST 24, 1978 .054	1888		NOI USED IN CALCULATIONS		1545
St. Union #1-16	1-76	120	6439	524		FEBRUARY 26, 1980 .017	524	1731	11-8-77	- 1207	410
St. Union 2-16	7-76	3 da	6506	440		JANUARY 28, 1983 .02	439	524	2-26-80	-85	369
St. Union 1-16	1-76	8 da	6439	419		APRIL 28, 1983 .02	419	439	1-28-83	-20	352

* Assumed

FIELD NAME UNION 17-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-77 VIRGIN PRESSURE 3365 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5497 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Union "N" 2-17	12-77	144	6458	3365		DECEMBER 6, 1977 .10*	3365		INITIAL TEST		2698
St. Union "N" 2-17	12-77	297	6458	1721		OCTOBER 4, 1978 .048	1721	3365	12-6-77	- 1644	1402 137
St. Union "N" 2-17	12-77	68.8	6458	1216		DECEMBER 9, 1981 .037	1216	1721	10-4-78	- 505	1007 0

* Estimated

FIELD NAME UNION 18-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-73 VIRGIN PRESSURE 3231 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5410 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.
Montgomery 1-18	12-73	169	6252	3231	.099	3231					
				DECEMBER 29, 1973							
Montgomery 1-18	12-73	63.5	6235	1138	.099*	1140					
				JANUARY 10, 1977							
				Incomplete buildup at 9 psi/hour.			NOT USED	IN CALCULATIONS			
Montgomery 1-18	12-73	118.3	6250	1833	.08	1833					1313
				JANUARY 16, 1978							
Montgomery 1-18	12-73	N.A.	6250	1519	.048	1519					1250
				APRIL 6, 1978							
Montgomery 1-18	12-73	N.A.	6232	1851	.099	1853					1509
Montgomery 2-18	12-73	N.A.	6394 TVD	2358	.564	2256					372
				FEBRUARY 26, 1981							
				Dry Hole			3231	12-29-73	- 1378		
							NOT USED	IN CALCULATIONS			

* Assumed

REMARKS:

STATE OF MICHIGAN

FIELD NAME UNION 18A-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 1-79 VIRGIN PRESSURE 3253 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5416 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.
St. Union #3-18a	1-79	47.8	6260 TVD	3253	.11	3253					2558
				FEBRUARY 5, 1979							
St. Union #3-18a	1-79	146	6260 TVD	1393	.04	1393	3253	2-5-79	- 1860		1138
				OCTOBER 15, 1981							
St. Union 3-18A	1-79	6 da	6248 TVD	1212	.17	1214	1393	10-15-81	-179		991
				FEBRUARY 22, 1983							

FIELD NAME UNION 20-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-78 VIRGIN PRESSURE 3456 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5601 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.
AMOCO PRODUCTION Scharmen #1-20	7-78	65.5	6557	3456	.181	3456					2749
				JULY 21, 1978							
NORHERN MICHIGAN Scharmen #1-20	12-78	72	6531	2890	.20	2890	3456	7-21-78	- 566		2323
				DECEMBER 20, 1978							
				INCOMPLETE PRESSURE BUILDUP, BUILDUP RATE 5 psi/hr.							
Scharmen #1-20 (Amoco)	7-78	91.5	6340	1126	.026	1131	2891	12-20-78	- 1760	938	948
				DECEMBER 8, 1981							
Scharmen #1-20 (Amoco)	7-78	24	6340	1063	.03*	1070	1131	12-8-81	-61	900	900
				SEPTEMBER 30, 1983							

* = Assumed

STATE OF MICHIGAN

FIELD NAME UNION 21-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-77 VIRGIN PRESSURE 3478 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5821 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.
St. Union "M" 1-21	12-77	1 Month	6769	3463	.10*	3463					
				DECEMBER, 1977							
St. Union "M" 1-21	12-77	11 Mo's.	6769	3478	.119	3478					2695
				OCTOBER 17, 1978							
St. Union "M" 1-21	12-77	117	6769	2087	.063	2087	3478	10-17-78	- 1591	1657	572
				DECEMBER 9, 1981							
St. Union "M" 1-21	12-77	24	6769	1635	.10*	1635	2087	12-9-81	-452	1250	600
				SEPTEMBER 30, 1983							

* Estimated

STATE OF MICHIGAN

FIELD NAME UNION 22-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-78 VIRGIN PRESSURE NO PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES		
						P.S.I. @ 5813 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.	
St. Union "O" 1-22	7-78	20	6770	3469	<u>JULY 14, 1978</u> .119	3469					2710	PKR.
St. Union "O" #1-22	7-78	93.3	6745	1063	<u>MARCH 8, 1981</u> .053	1064	3469	7-14-78	- 2405		867	

STATE OF MICHIGAN

FIELD NAME UNION 28-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-75 VIRGIN PRESSURE 3687 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES		
						P.S.I. @ 5898 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.	
St. Union "J" #1-28	6-75	12	6880	3687	<u>JUNE 30, 1975</u> .140	3687						
St. Union "J" 1-28	6-75	73.5	6873	2930	<u>OCTOBER 4, 1978</u> .115	2931	3687	6-30-75	- 756		2256	2142
St. Union "J" #1-28	6-75	49.3	6966	1032	<u>SEPTEMBER 13, 1981</u> .041	1029	2931	10-4-78	- 1902		836	848

STATE OF MICHIGAN

FIELD NAME UNION 29-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-80 VIRGIN PRESSURE 3503 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES		
						P.S.I. @ 5879 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.	
St. Union "S" #2-29	11-80	138	6823	3503	<u>NOVEMBER 14, 1980</u> .10*	3503						2700
St. Union "S" 2-29	11-80	524	6770	2043	<u>OCTOBER 27, 1982</u> .055	2046	3503	11-14-80	-1457		--	
St. Union "S" 2-29	11-80	24+	6770	1969	<u>OCTOBER 26, 1983</u> .06*	1972	2046	10-27-82	-74		1525	

* Estimated

STATE OF MICHIGAN

FIELD NAME UNION 29A-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-81 VIRGIN PRESSURE 3512 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES		
						P.S.I. @ 5915 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.	
St. Union "U" #3A-29	9-81	NA	6866 TVD	3512	<u>JULY 16, 1981</u> 108	3512						
St. Union "U" 3A-29	9-81	NA	6881 TVD	2956	<u>FEBRUARY 28, 1983</u> 128	2954	3512	7-16-81	-558		2303	1753
St. Union "U" 3A-29	9-81	24	6874 TVD	2953	<u>SEPTEMBER 29, 1983</u> .20	2951	2954	2-28-83	-3		2275	

FIELD NAME UNION 31-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 5-78 VIRGIN PRESSURE 3217 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM 5768 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Law Unit 1-31	8-78	109	6800 AT THIS	3217	.10*	3217				2511
				MAY 30, 1978 TIME 64 BBL. CONDENSATE AND 2727 mcf PRODUCED.						
Law Unit 1-31	8-78	2702	6728 AT THIS	3029	.096	3029				2390
				DECEMBER 20, 1978 TIME 734 BBL. CONDENSATE AND 31000 mcf (EST.) PRODUCED.						
Law Unit #1-31	8-78	1009	6728	877	.026	877	3029	8-30-78	- 2152	548
				FEBRUARY 15, 1982						

*Estimated

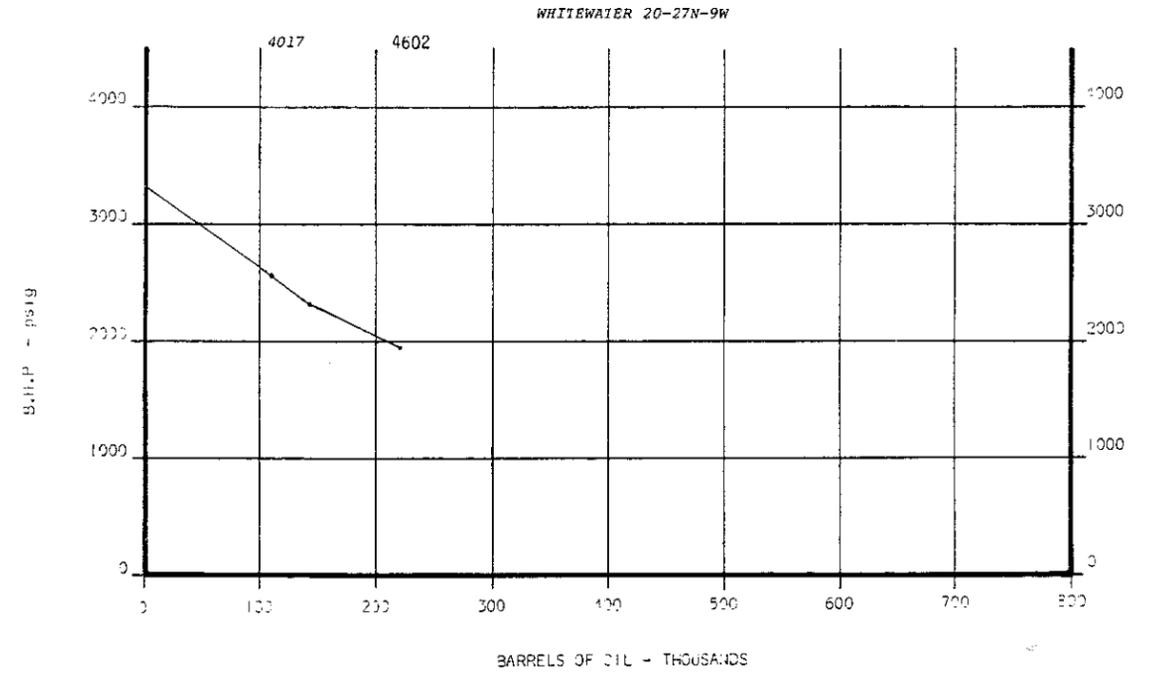
FIELD NAME WHITEWATER 20-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 12-78 VIRGIN PRESSURE 3315 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM 5124 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Whitewater "J" 1-20 (Amoco)	12-78	72.3	6103	3315	272	3315				1775 1734
				DECEMBER 21, 1978 INITIAL TEST						
St. Whitewater "J" #1-20	12-78	19.5	6103	2738	.291	2738	3315	12-21-78	- 577	1817 2322
				FEBRUARY 26, 1981						
St. Whitewater "J" #1-20 (Amoco)	10-78	67.3	6103	2560	301	2560	2738	2-26-81	- 178	1627 955
				MARCH 8, 1982						
St. Whitewater "J" (Amoco)	1-20 10-78	NA	6103	2437	291	2437	2650	3-8-82	-123	
				MAY 8, 1982						
St. Whitewater "J"	4-20 10-82	42	6127	2307	575	2300	2437	5-8-82	-137	1306 1854
				OCTOBER 29, 1982						
St. Whitewater "J"	5-20 10-83	190	6146	1950	288	1939	2300	10-29-82	-361	974 1558
				NOVEMBER 4, 1983						

FIELD NAME UNION 31A-26N-9W COUNTY GRAND TRAVERSE TOWNSHIP UNION DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 1-83 VIRGIN PRESSURE 3404 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Law 1B-31	1-83	89.3	6896 TVD	3404	.110	3404				2637
				FEBRUARY 17, 1983						
Law 1B-31	1-83	24	6896 TVD	2908	.10*	2908	3404	2-17-83	-496	2255 2275
				OCTOBER 27, 1983						

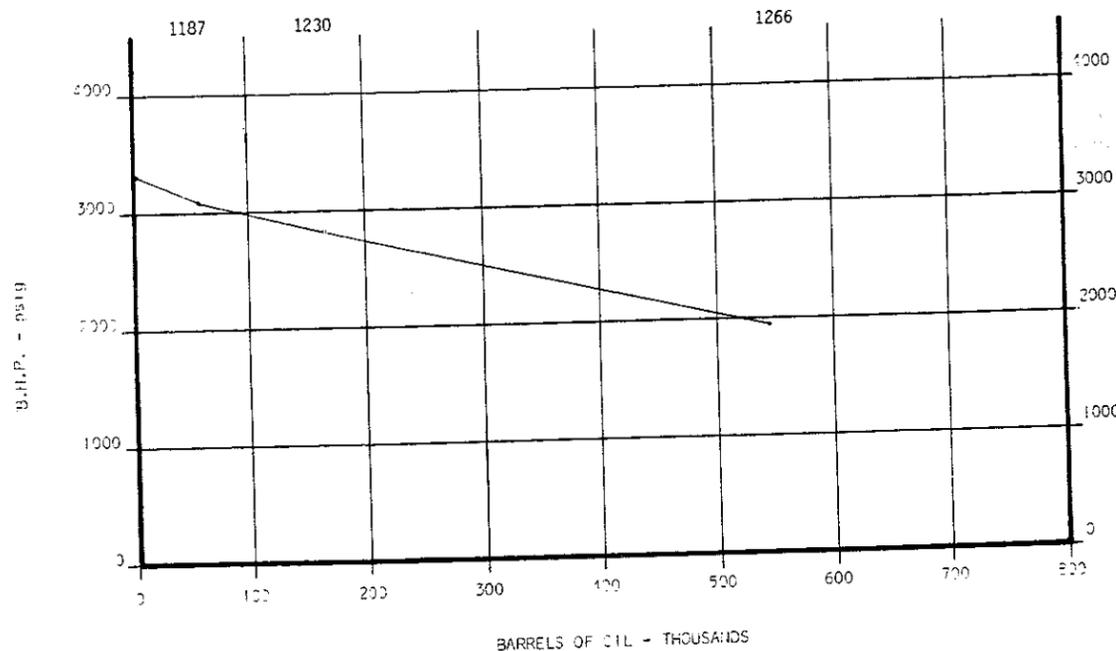
BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME WHITEWATER 20a-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 1-79 VIRGIN PRESSURE 3300 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5111 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Whitewater #1-20 (Shell) 1-79	64.6	6161	3300	.26	3300	JANUARY 13, 1979 INITIAL TEST			1666	
St. Whitewater #1-20 (Shell) 1-79	52	6161	3081	.27	3077	3300	1-13-79	- 223	1561	
St. Whitewater #1-20 (Shell) 1-79	72	6160	2821	.28	2817	3077	10-22-79	- 260	1413	
St. Whitewater #2-20 (Amoco) 3-82	50.8	6060	2517	.473	2507	2817	10-16-80	- 310	1097 1089	
St. Whitewater 3-20 (Shell) 10-83	116	6033	1950	.28	1944	2507	3-8-82	-563	1101	

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 Whitewater 20A-27N-9W



FIELD NAME WHITEWATER 20b-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 7-79 VIRGIN PRESSURE 3375 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 4996 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Whitewater #2-20 (Shell) 7-79	120	5970	3375	.25	3375	JULY 2, 1979 INITIAL PRESSURE			2630	
St. Whitewater 2-20 (Shell) 7-79	48	5969	2929	.57	2930	3375	7-2-79	- 445	0	
St. Whitewater 2-20 (Shell) 7-79	2688	5979	2746	.56	2747	2930	7-22-80	-183		

FIELD NAME WHITEWATER 22-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-76 VIRGIN PRESSURE 3200* NO. PRODUCING WELLS _____
 (Completion)

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5204 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Whitewater "E" #1-22 10-76	1	6211 EST	3127	N.A.	3127	OCTOBER 8, 1976 INITIAL REPORTED PRESSURE				
St. Whitewater "E" #1-22 10-76	25.25	6216	2853	.106	2852	3200	10-8-76	- 348	2212	
St. Whitewater "E" #1-22 10-76	41	6216	2530	.097	2530	DECEMBER 20, 1977 NOT USED IN CALCULATIONS			1979	
St. Whitewater "H" #3-22 1-78	62.3	6283	2560	.099	2553	2852	4-14-77	- 299	1992 1991	
St. Whitewater "H" #3-22 1-78	25.5	6283	2253	.074	2248	AUGUST 5, 1978			1671 1667	
St. Whitewater "E" #1-22 10-76	67.5	6216	2208	.074	2208	2228	1-26-78	- 325	1756	
St. Whitewater "H" #4-22 12-78	73	6165	2094	.073	2093	2228	8-5-78	- 135	1671 1667	

FIELD NAME: WHITEWATER 22-27N-9W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.			
						P.S.I. @ 5204 FEET	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE					
St. Whitewater "H" #4-22	12-78	75	6188	1340		NOVEMBER 1, 1980	.404	1325	2093	12-7-78	- 768	1340	1088
St. Whitewater "E" #1-22	10-76	N.A.	6261	1190		FEBRUARY 12, 1981	.042	1188	1325	11-1-80	- 137	985	
St. Whitewater "I" #3-22	1-78	43.8	6283	1210		MARCH 27, 1981	.332	1188	1188	2-12-81	- 0	936	1027
St. Whitewater "H" #4-22	12-78	---	5851	816		MAY 19, 1981	.207	878	NOT USED IN CALCULATIONS				
St. Whitewater "H" #4-22	12-78	53.5	6150	1191		MAY 22, 1981	.047	1191	1188	3-27-81	+ 3	992	997
St. Whitewater "I" #3-22	1-78	NA	6283	1228		JULY 22, 1981	.329	1206	NOT USED IN CALCULATIONS				
St. Whitewater "H" #4-22	12-78	--	5851	643		MAY 20, 1982	.034	653	1206	7-22-81	-553		
St. Whitewater "E" #1-22	10-76	--	5300	650		JUNE 30, 1982	.119	650	653	5-20-82	-3		
St. Whitewater "I" #3-22	1-78	22	6283	669		SEPTEMBER 28, 1983	.10	662	NOT USED IN CALCULATIONS				

REMARKS:

STATE OF MICHIGAN

FIELD NAME WHITEWATER 28-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS

PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-75 VIRGIN PRESSURE 2943 NO PRODUCING WELLS

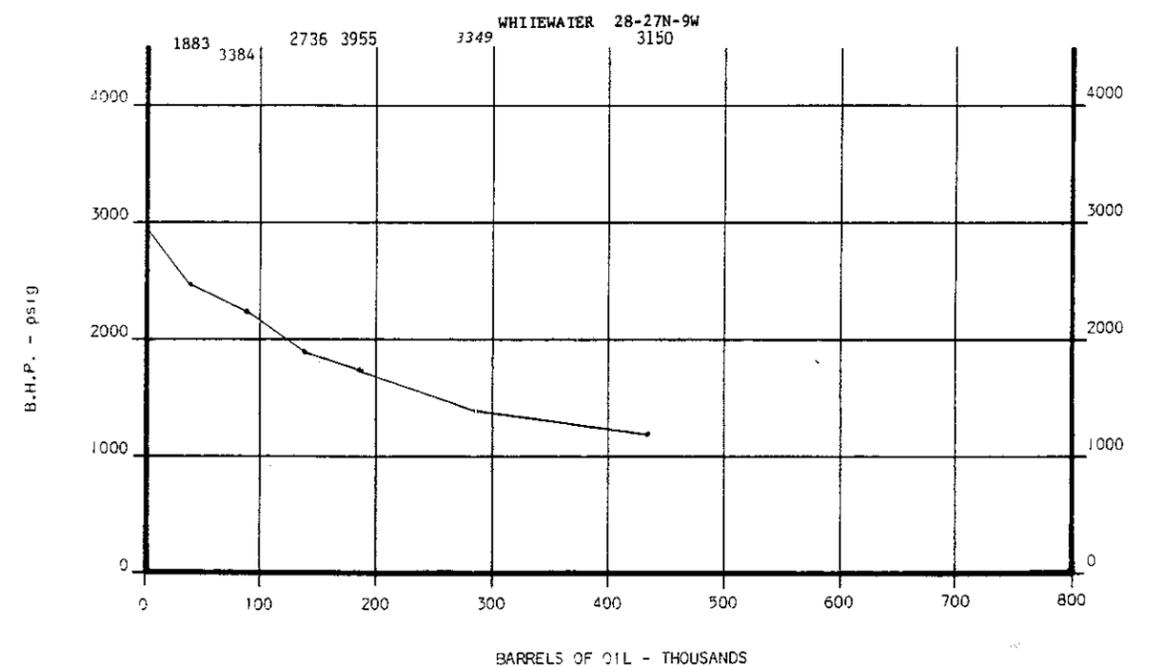
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. @ 5158 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
State Whitewater #2-28	4-75	43	6107	2943		APRIL 3, 1975	28	2943	INITIAL TEST	1560	
State Whitewater #2-28	4-75	24	6107	2473	.24	OCTOBER 19, 1976	2470	2943	4-3-76	- 473	1566
State Whitewater #2-28	4-75	24	6107	2234	.12	OCTOBER 6, 1977	2234	2470	10-19-76	- 236	1760
State Whitewater #2-28	4-75	24	6107	1920	.08	OCTOBER 23, 1978	1919	2234	10-6-77	- 315	1572
St. Whitewater 2-28	4-75	24	6107	1729	.26	OCTOBER 19, 1979	1725	1919	10-23-78	- 194	1431
St. Whitewater 2-28	4-75	25	6107	1460	.070	APRIL 2, 1981	1460	1725	10-19-79	- 265	1213

FIELD NAME: WHITEWATER 28-27N-9W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. @ 5158 FEET	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE			
St. Whitewater #2-28A	12-81	69	6093 TVD	1389	.34	DECEMBER 17, 1981	1395	1460	4-2-81	- 65	722
St. Whitewater 3-28	11-83	68	6084	1195	.12	NOVEMBER 17, 1983	1195	1395	12-17-81	-200	1009

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



FIELD NAME WHITEWATER 32-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 9-24-72 VIRGIN PRESSURE 3209 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5155 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Gelbke #1	9-72	48	OCTOBER 13, 1972 6105	3209	285	3209	1st test			1475	1650
Gelbke #1	9-72	47	NOVEMBER 7, 1972 6105	3072	280	3072	3209	10-13-72	- 137	1438	1610
Gelbke #1	9-72	24 +	SEPTEMBER 25, 1973 6105	2854	297	2854	3072	11-7-72	- 218	1424	2200
Gelbke #1	9-72	26	APRIL 12, 1974 6105	2746	320	2746	2854	9-25-73	- 108	1202	2200
St. Whitewater #1-52	4-74	19	MAY 7, 1974 6129	2753	350	2727	2746	4-12-74	- 19		
St. Whitewater #1-52	4-74	--	AUGUST 16, 1974 6129	2624	280	2618	2727	5-7-74	- 109	971	
Gelbke #1	9-72	49	SEPTEMBER 14, 1974 6105	2599	400	2599	2618	8-16-74	- 19	939	720

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 2

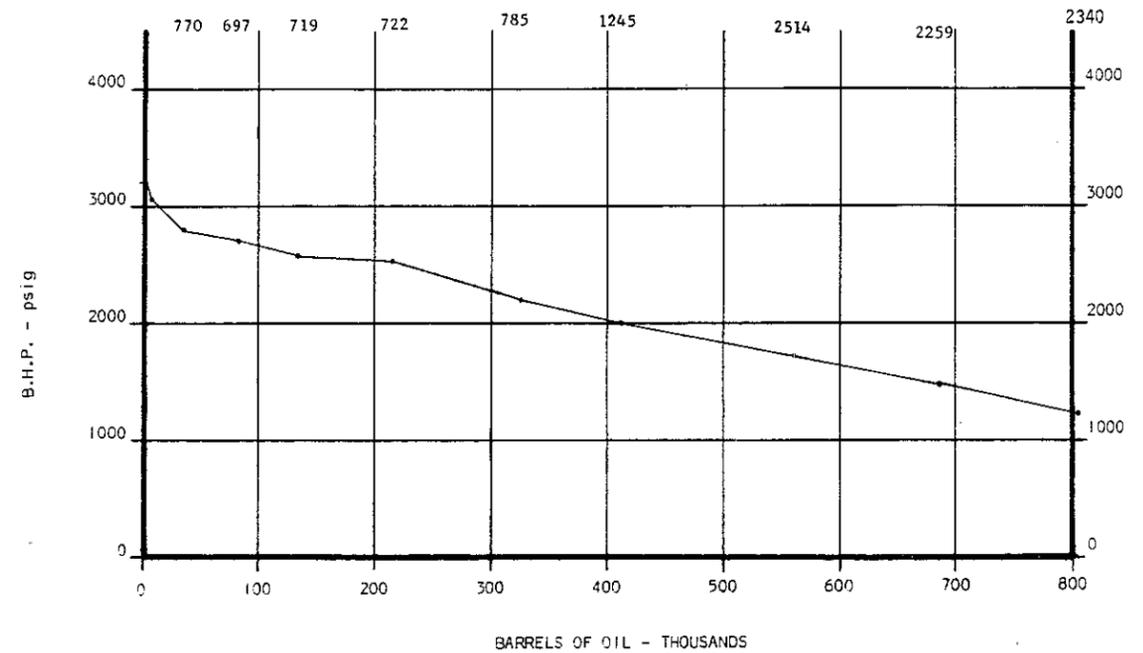
WHITEWATER 32-27N-9W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5155 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Gelbke #1	9-72	27	6105	2550	APRIL 8, 1975 .35	2550	2599	9-14-74	- 49	1050	
Gelbke #1	9-72	29.5	6105	2198	OCTOBER 13, 1975 .304	2197	2550	4-8-75	- 353	749	992
Gelbke #1	9-72	24+	6105	2093	APRIL 12, 1976 .290	2092	2197	10-13-75	- 105	1167	1502
Gelbke #1	9-72	25.25	6105	1943	OCTOBER 6, 1976 .310	1942	2092	4-12-76	- 150	1131	1020
Gelbke #1	9-72	25.75	6105	1732	MAY 24, 1977 .300	1731	1942	10-6-76	- 211	758	1137
Gelbke #1	9-72	25	6105	1472	APRIL 20, 1978 .380	1471	1731	5-24-77	- 260	817	1188
Gelbke #1	9-72	24	6105	1227	APRIL 26, 1979 .30	1227	1471	4-20-78	- 244	668	986

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION

WHITEWATER 32-27N-9W



STATE OF MICHIGAN

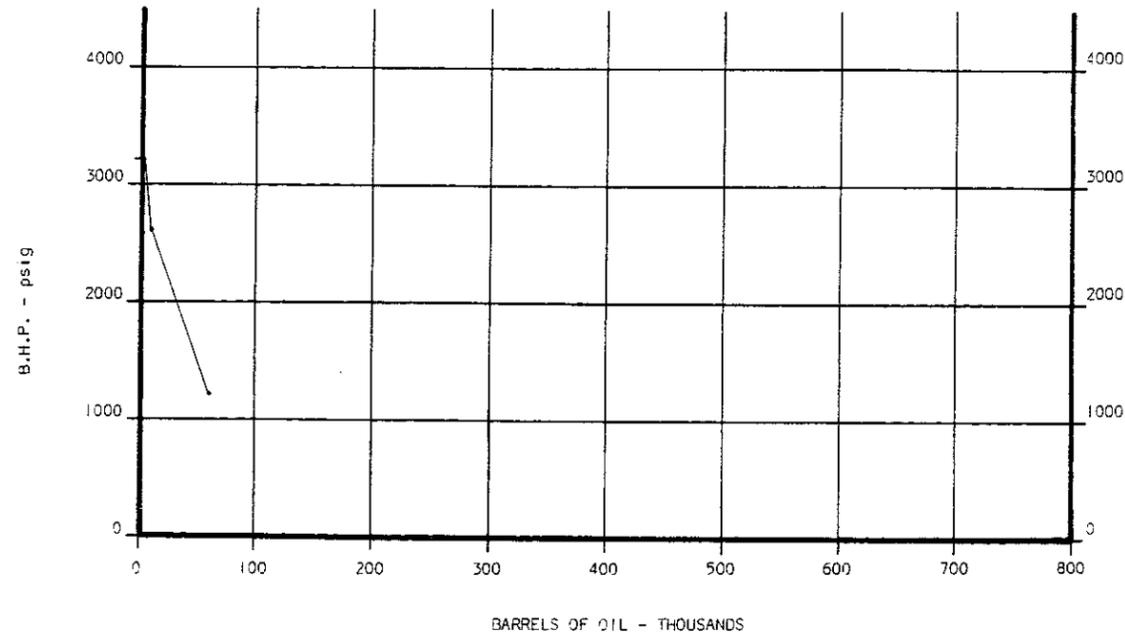
FIELD NAME WHITEWATER 34-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 8-11-72 VIRGIN PRESSURE 3225 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5332 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Whitewater 1-34	8-72	62.5	6300	3225	OCTOBER 10, 1972 .293	3225	1st test			1180	1425
St. Whitewater 1-34	8-72	30	6300	2666	NOVEMBER 2, 1972 .270	2666	3225	10-10-72	- 559	920	1400
St. Whitewater 1-34	8-72	N.A.	6268	1208	FEBRUARY 15, 1977 .507	1224	2666	11-2-72	- 1442	0	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

WHITEWATER 34-27N-9W



STATE OF MICHIGAN

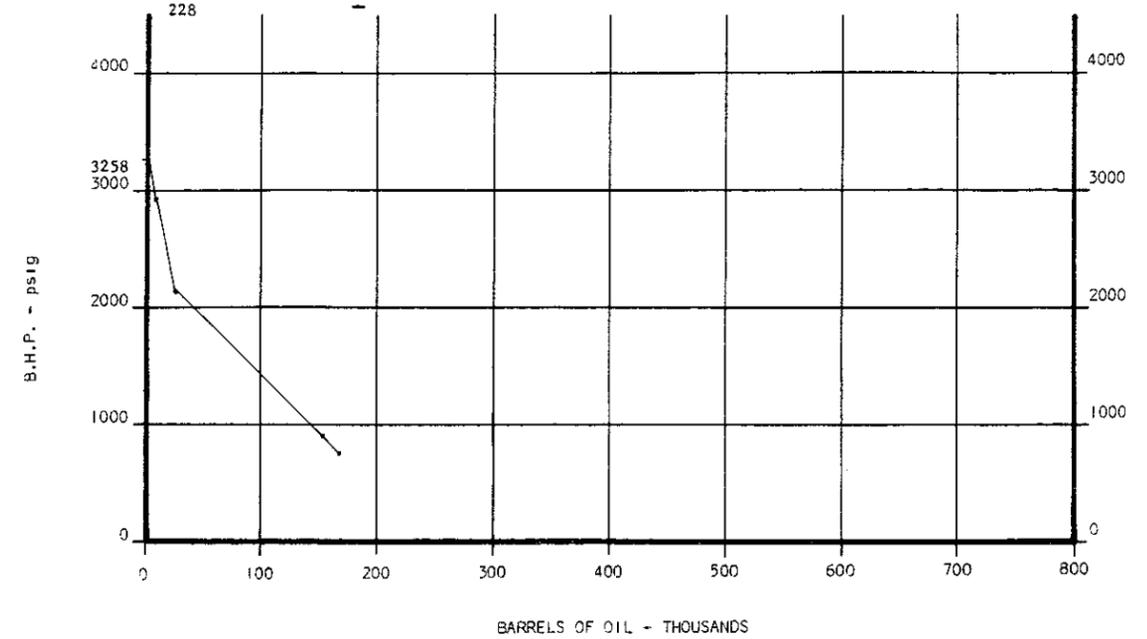
FIELD NAME WHITEWATER 34-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS _____
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 3-6-72 VIRGIN PRESSURE 3258 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5320 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Whitewater 1-35	3-72	65	6280	3258	307	3258		1st test		1313	
			<u>MARCH 2, 1972</u>								
St. Whitewater 1-35	3-72		6280	2945	270	2945	3258	3-2-72	- 313	1003	1600
			<u>NOVEMBER 2, 1972</u>								
St. Whitewater 1-35	3-72	28	6283	2153	301	2152	2945	11-2-72	- 793	307	1180
			<u>SEPTEMBER 26, 1973</u>								
St. Whitewater "B"	1-35 3-72	13.5	6234	919	30	933	2152	9-26-73	-1219		
			<u>OCTOBER 22, 1980</u>								
St. Whitewater "B"	1-35 3-72	138	6259	729	352	736	933	10-22-80	-197	62	
			<u>FEBRUARY 27, 1984</u>								

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

WHITEWATER 35-27N-9W



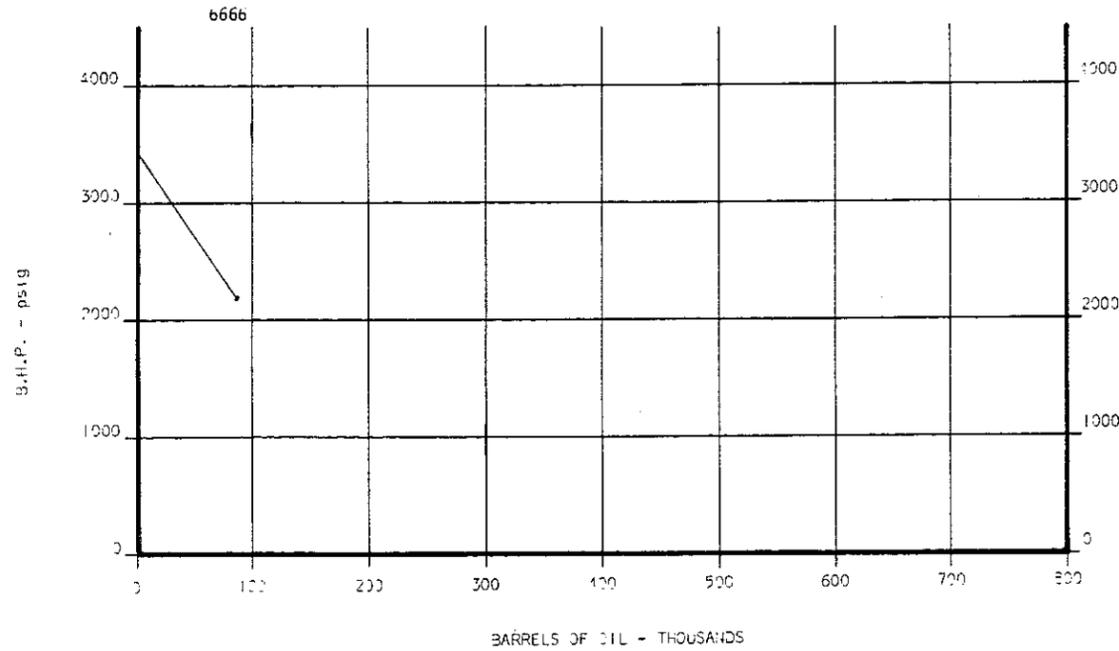
STATE OF MICHIGAN

FIELD NAME WHITEWATER 35a-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITEWATER DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-80 VIRGIN PRESSURE 3424 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5510 FEET	PREVIOUS PRESS	DATE OF PREV PRESSURE		TUB.	CSG.
St. Whitewater 4-35	11-80	75.5	6426	3424	136	3424		INITIAL TEST		2634	1627
			<u>SEPTEMBER 29, 1980</u>								
St. Whitewater "L"	4-35 11-80	48	6426	2977	.14*	2977	3424	9-29-80	-447	2148	
			<u>JULY 13, 1982</u>								
St. Whitewater "L"	4-35 11-80	10 days	6469	2191	531	2168	2977	7-13-82	-809	1148	1653
			<u>NOVEMBER 11, 1983</u>								

* = Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
WHITewater 36A-27N-9W



STATE OF MICHIGAN

FIELD NAME WHITewater 36-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITewater DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-6-71 VIRGIN PRESSURE 3401 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5472 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Whitewater 1-36	3-71	N.A.	N.A.	N.A.	N.A.	3401	INITIAL TEST			
							AUGUST 7, 1973			
St. Whitewater 1-36	3-71	24	6454	1793	.047	1793	3401	N.A.	- 1608	
			Cumulative production to 8/1/73			2716 MMcf and 57,652 Bbls. Cond.				
			SEPTEMBER 26, 1973							
St. Whitewater 1-36	3-71	29	6454	1570	.043	1570	1793	8-7-73	- 223	
			Cumulative prod. to 10/1/73			3153 MMcf and 60106 Bbls. cond.				
			APRIL 12, 1974							
St. Whitewater 1-36	3-71	27	6470	1273	.032	1272	1570	9-26-73	- 298	1059
			Cumulative prod. to 4/1/74			3822 MMcf and 61710 Bbls. Cond.				
			OCTOBER 15, 1974							
St. Whitewater 1-36	3-71	24	6470	1008	.028	1007	1272	4-12-74	- 265	844
			Cumulative production to 10-15-74			4408 MMcf and 63258 Bbls. Cond.				

REMARKS:

WHITewater 36-27N-9W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5472 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
						APRIL 7, 1975					
State Whitewater #1-36	3-71	28.5	6470	889	.021	889	1007	10-15-74	- 118	747	815
			Cumulative production to 3-31-74			4542 MMcf and 63,258 Bbls. Condensate					
			OCTOBER 16, 1975								
State Whitewater #1-36	3-71	24	6453	709	.008	709	889	4-7-75	- 180	599	595
			Cumulative production to 9-31-74			4939 MMcf and 63,650 Bbls. Condensate					
			MAY 6, 1976								
State Whitewater #1-36	3-71	24	6453	613	.014	613	709	10-16-75	- 96	513	
			Cumulative production to 4-30-76			5185 MMcf and 63,951 Bbls. condensate					
			APRIL 29, 1977								
St. Whitewater #1-36	3-71	456	6480	482	.013	482	613	5-6-76	- 131	395	condensate
			Cumulative production to 4-30-77			5452 MMcf and 64133 Bbls. condensate					
			JANUARY 15, 1978								
St. Whitewater #1-36	3-71	94.8	6480	428	.010	428	482	4-29-77	- 54	358	
			Cumulative production to 12-30-77			5645 MMcf and 64133 Bbls. condensate					
			SEPTEMBER 30, 1978								
St. Whitewater #1-36	3-71	69	6480	366	.008	366	428	1-15-78	- 62	310	
			Cumulative production to 9-30-78			5768 MMcf and 64,141 Bbls. condensate					
			APRIL 4, 1981								
St. Whitewater #1-36	3-71	72.3	6454	140	.004	140	366	9-30-78	- 226	113	112
			Cumulative production to 3-31-81			6157 MMcf and 64,257 Bbls. condensate					

REMARKS:

STATE OF MICHIGAN

FIELD NAME WHITewater 36A-27N-9W COUNTY GRAND TRAVERSE TOWNSHIP WHITewater DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-76 VIRGIN PRESSURE 3384 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5491 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
						JUNE 7, 1976					
State Whitewater "F" 2-36	6-76	N.A.	6467	3384	.11	3384	INITIAL TEST				
			DECEMBER 20, 1977								
St. Whitewater "F" 2-36	6-76	30	6621	2734	.092	2720	3384	6-7-76	- 664	2165	2142
			OCTOBER 1, 1978								
St. Whitewater "F" 2-36	6-76	73.8	6621	1434	.041	1428	2720	12-20-77	-1292	1179	1206
			APRIL 2, 1981								
St. Whitewater "F" #2-36	6-76	22.8	6621	308	.132	288	1428	10-1-78	- 1140	243	248

KALKASKA

FIELD NAME BLUE LAKE 1-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 4-71 VIRGIN PRESSURE 3113 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5289 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake 1-2	4-71	N.A.	AUGUST 3, 1971 6500	3113	N.A.	3113		1st test		N.A.	N.A.
St. Blue Lake 1-2	4-71	27.5	JANUARY 11, 1972 6500	2548	303	2548	3113	8-71	- 565	750	N.A.
St. Blue Lake 1-2	4-71	27	OCTOBER 23, 1972 6500	1965	310	1965	2548	1-72	- 583	551	1600
St. Blue Lake "B"	3-1 3-73	N.A.	MARCH, 1973 6500	1929	.300 *	1936	1965	10-72	- 29		
St. Blue Lake	2-1 4-71	28	APRIL 13, 1973 6500	1906	.290	1906	1936	3-73	- 30	514	1100
St. Blue Lake "B"	3-1 3-73	27	OCTOBER 10, 1973 6501	1708	.323	1715	1906	4-13-73	- 191	436	N.A.
St. Blue Lake "B"	3-1 3-73	26	APRIL 10, 1974 6500	1519	.340	1526	1715	10-10-73	- 189	313	810

REMARKS: * Assumed Waterflood project begins November, 1979.

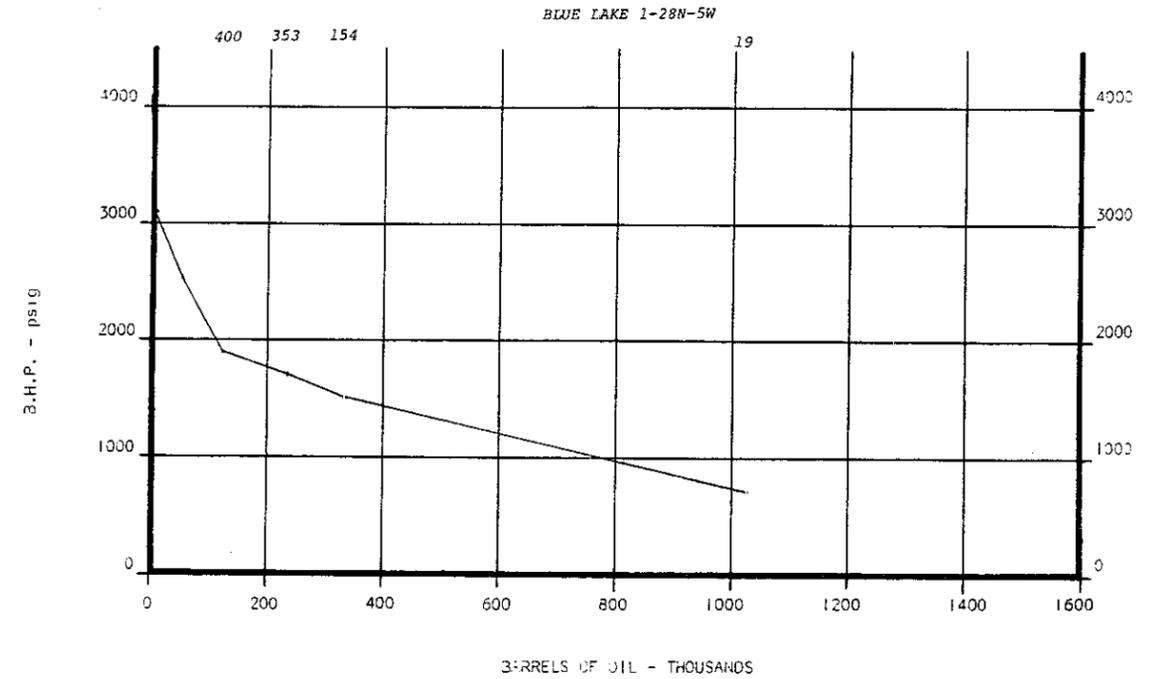
BOTTOM-HOLE PRESSURE TESTS - Page 2

FIELD NAME: BLUE LAKE 1-28N-5W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5289 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Mancelona "I" #1A-56	12-80	N.A.	6441 TVD	640		MARCH 29, 1981 154	651	NOT USED IN CALCULATIONS		62	527
St. Blue Lake "B" #2-1	4-71	63.5	6496	701		JULY 20, 1981 337	702	1526	4-10-74	- 824	
St. Mancelona "I"	1A-36 12-80	--	6543	693		NOVEMBER 9, 1982 53	675	702	7-20-81	-27	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



STATE OF MICHIGAN

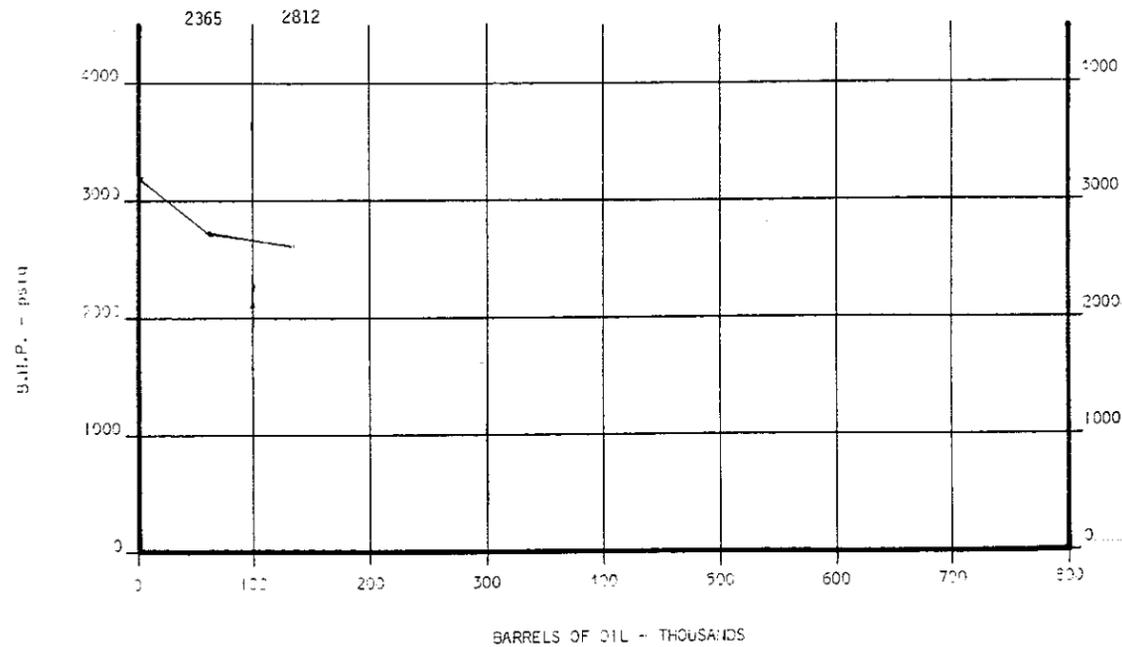
FIELD NAME BLUE LAKE 4-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 1-83 VIRGIN PRESSURE 2818 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5385 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake 1-4	1-83	2356	5681	2818		MAY 6, 1983 323	2818	INITIAL TEST		1040	1041

FIELD NAME BLUE LAKE 5-28N-5W COUNTY KALASKA TOWNSHIP BLUE LAKE DATE OF TESTS
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 9-78 VIRGIN PRESSURE 3198 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5374 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
St. Blue Lake Hayden #1-5 9-78	N.A.		6634	3198	.291	3198	INITIAL	TEST		1617	1784
SEPTEMBER 16, 1978											
St. Blue Lake Hayden #1-5 9-78	113.5		6634	3099	.351	3099	3198	9-16-78	- 99	1408	1736
AUGUST 4, 1979											
OCTOBER 1, 1980											
St. Blue Lake Hayden #1-5 9-78	N.A.		6550	2677	.40	2723	3099	8-4-79	- 376	1709	1902
OCTOBER 17, 1981											
St. Hayden #1-5 9-78	23		6618 (not built)	2244	.093	2245	NOT USED IN CALCULATIONS			1781	1785
DECEMBER 13, 1982											
St. Blue Lake 1-5 (Peninsular) 10-82	168+		6673	2664	.514	2648	2723	10-1-80	-75	609	
JANUARY 27, 1983											
St. Blue Lake 1-5 (Peninsular) 10-82	46		6673	2615	.277	2606	2648	12-13-82	-42	1494	2068

BOTTOM-HOLE PRESSURE DROP VERSUS
 RESERVOIR CUMULATIVE OIL PRODUCTION
 Blue Lake 5-28N-5W

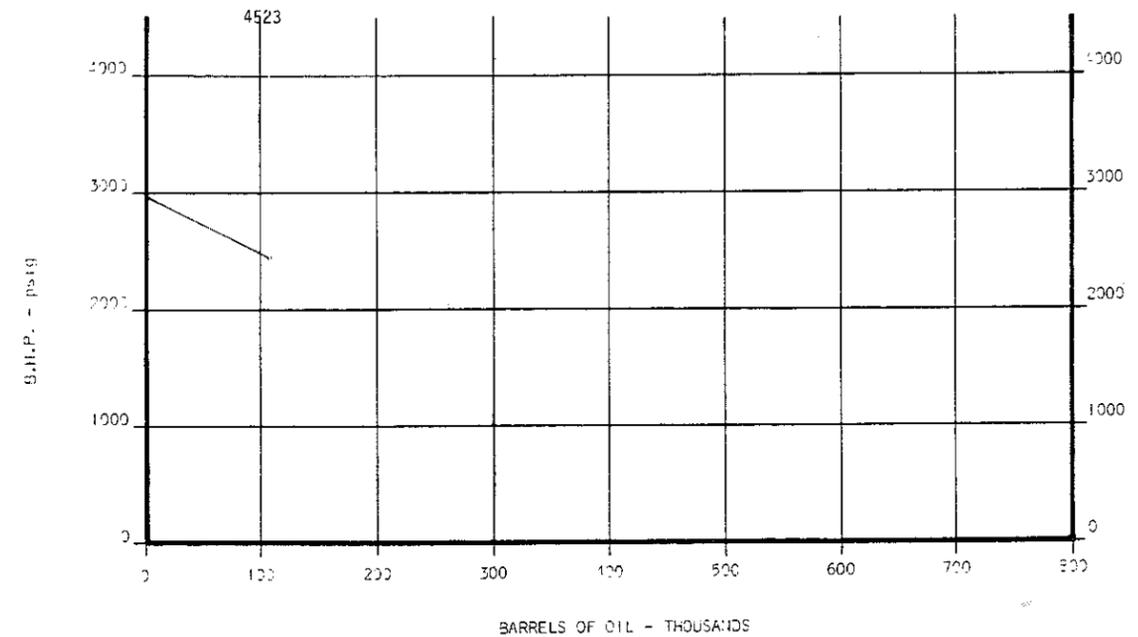


FIELD NAME BLUE LAKE 5A-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-81 VIRGIN PRESSURE 2959 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5375 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
St. Blue Lake "N" #1-5 (Amoco & Peninsular)	10-81	20	6660 IVD	2959	.273	2959	INITIAL	TEST		1446	1462
OCTOBER 31, 1981											
Snyder #1-6	2-82	20.3	6652 TVD	2913	.571	2917	2959	10-31-81	- 42	1424	2253
FEBRUARY 26, 1982											
JUNE 21, 1983											
St. Blue Lake "N" 1-5 (Amoco-Peninsular)	10-81	20	6660 TVD	2456	.50*	2456	2917	2-26-82	-461		

* Estimated

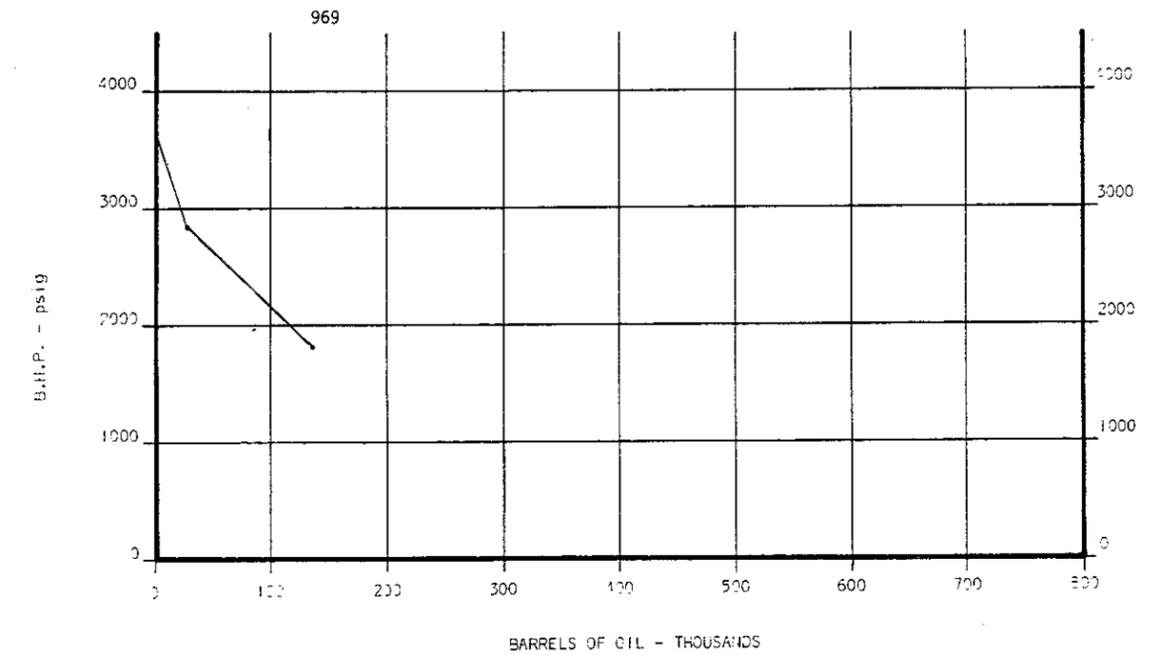
BOTTOM-HOLE PRESSURE DROP VERSUS
 RESERVOIR CUMULATIVE OIL PRODUCTION
 BLUE LAKE 5A-28N-5W



FIELD NAME BLUE LAKE 5B-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 11-83 VIRGIN PRESSURE 2911 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT-IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5399 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Blue Lake 1-5 (Schmude & Pangborn)	11-83	15	6668	2911	281	2911	INITIAL TEST		1177	162

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 BLUE LAKE 8-28N-5W



FIELD NAME BLUE LAKE 8-28N-5W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 3-82 VIRGIN PRESSURE 3598 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT-IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5608 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Blue Lake 1-8	3-82	72	7079	3598	MARCH 4, 1982 287	3598	INITIAL TEST		1676	1744
St. Blue Lake 1-8	3-82	27	7079	3152	AUGUST 17, 1982 304	3152	3-4-82	-446	1301	
St. Blue Lake 2-8A	10-82	169	7067 TVD	2861	NOVEMBER 3, 1982 056	2860	8-17-82	-292	--	--
St. Blue Lake 1-8	3-82	353	7081	1844	DECEMBER 15, 1983 30*	1844	11-3-82	-1016	158	647

* Assumed

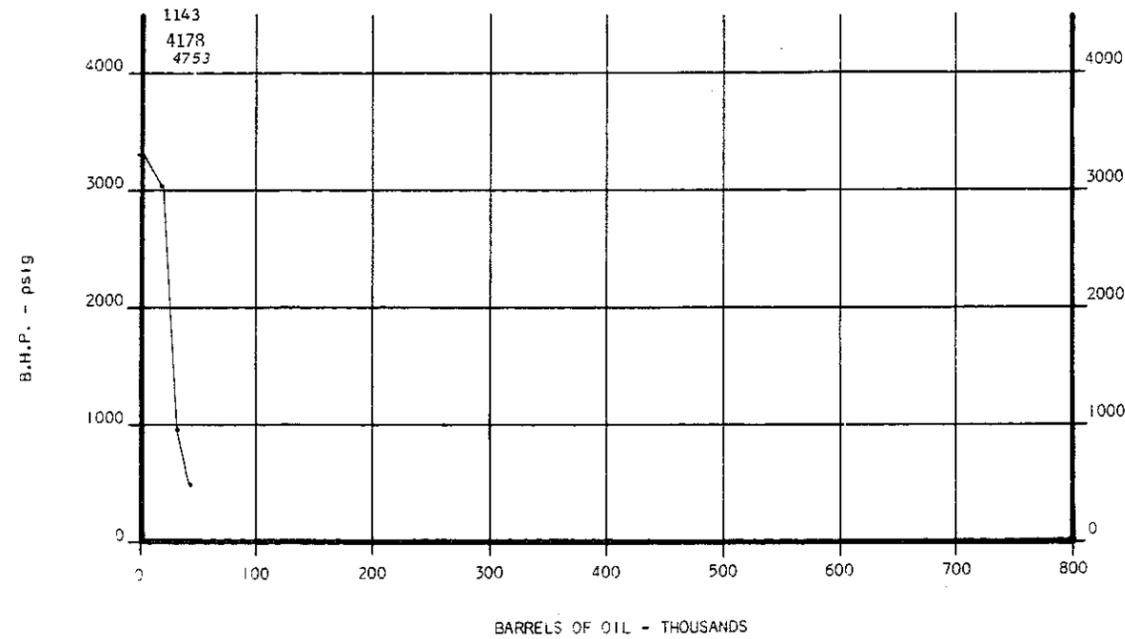
FIELD NAME BLUE LAKE 12-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 4-6-71 VIRGIN PRESSURE 3316 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT-IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5649 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Blue Lake 1-12	4-71	N.A.		3316	APRIL 6, 1971 6847	3316	1st test			
St. Blue Lake 1-12	4-71	N.A.			AUGUST 31, 1971 6808	1816*				
* This test was after a re-work										
St. Blue Lake 1-12	4-71	5 months		3059	MARCH 26, 1973 6800	3064	4-71	- 257	2287	2500
St. Blue Lake "C" 1-12	4-71	163.8		983	MAY 24, 1979 6875	984	5-26-73	-2076	804	462
St. Blue Lake "C" #1-12	4-71	23		983	MARCH 6, 1981 6875	538	5-24-79	- 449	37	424

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

BLUE LAKE 12-28N-5W



FIELD NAME BLUE LAKE 13-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-73 VIRGIN PRESSURE 3641 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5536 FEET			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake "F" 1-13 11-73	66	6760	3641	.153	3641	Initial Test				2762	
<u>APRIL 15, 1977</u>											
St. Blue Lake "F" 1-13 11-73	120	6760*	1540*	.050**	1541	3641	12-4-73	- 2100	1237	1187	
<u>OCTOBER 10, 1978</u>											
St. Blue Lake "F" 1-13 11-73	97.3	6760*	461*	.009	461	1541	4-15-77	- 1080	404	242	
<u>JANUARY 22, 1981</u>											
St. Blue Lake "F" #1-13 11-73	N.A.	6760	189	.338	194	461	10-10-78	- 267	0	0	
* Extrapolated ** Assumed											

SEE END:

STATE OF MICHIGAN

FIELD NAME BLUE LAKE 12A-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-79 VIRGIN PRESSURE 3350* NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5752 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake "M" #2-12 10-79	121.3	6952	2982	<u>OCTOBER 2, 1979</u>				574			
St. Blue Lake "M" #2-12 10-79	17.3	6284	1174	<u>JULY 15, 1980</u>				- 1491	426	514	
St. Blue Lake "M" #2-12 10-79	0	6700	392	<u>MARCH 4, 1981</u>			NOT USED IN CALCULATIONS			23	635
The pressure was at maximum pressure when shut-in at 0 hours based upon buildup characteristics of July 15, 1980 test.											
St. Blue Lake "M" #2-12 10-79	NA	6955	841	<u>MAY 14, 1981</u>			NOT USED IN CALCULATIONS				
St. Blue Lake "M" #2-12 10-79	141	6970	1104	<u>JULY 22, 1981</u>				- 397	287	631	
*Estimated											

STATE OF MICHIGAN

FIELD NAME BLUE LAKE 13A-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-79 VIRGIN PRESSURE 3400* NO. PRODUCING WELLS _____

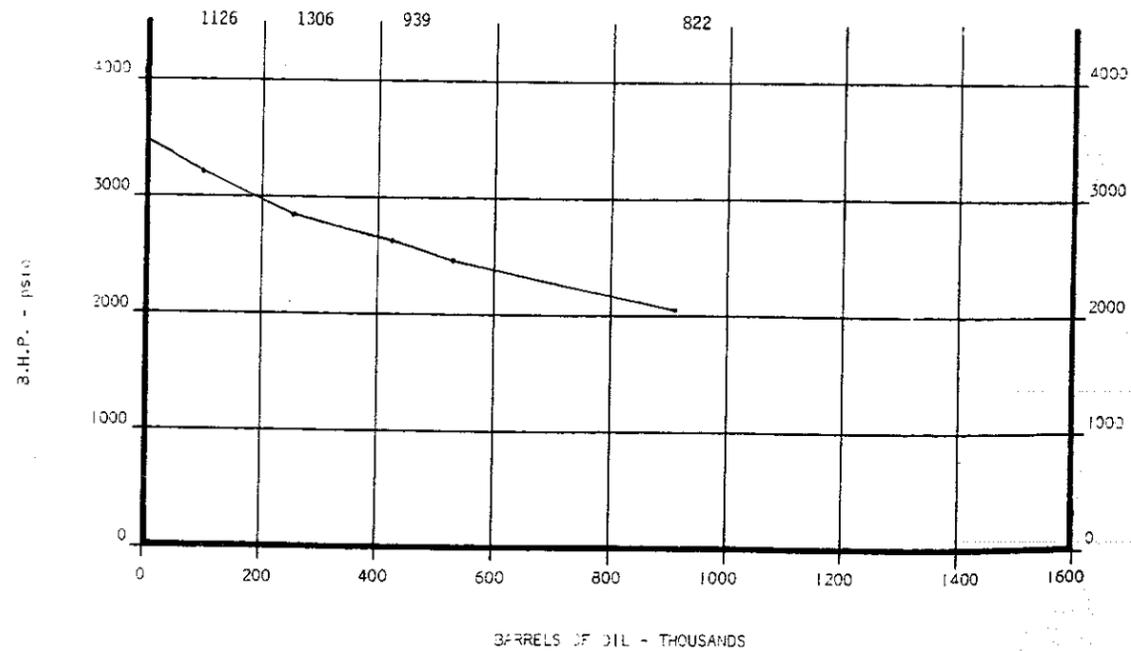
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5767 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake "F" #2-13 7-79	114.8	7017	2682	<u>JULY 28, 1979</u>				- 718	1229	1227	
St. Blue Lake "F" #2-13 7-79	16.3	6935	321	<u>JULY 15, 1981</u>				- 2326		270	
*Estimated. The St. Blue Lake "F" #2-13 appears to have pressure drawn down through the St. Blue Lake "F" #1-13. Although there is pressure drawn down, the St. Blue Lake "F" #2-13 is essentially separate from the											

FIELD NAME BLUE LAKE 16-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-77 VIRGIN PRESSURE 3537 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. #	5714 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
<u>DECEMBER 11, 1977</u>											
Simpson St. Blue Lake "A" 1-16	12-77	71	7109	3537	.30*	3537				1764	
<u>MAY 1, 1979</u>											
Simpson St. Blue Lake "A" 1-16	12-77	24.3	7109	3178	.275	3178	3537	12-11-77	- 359	1435	1479
<u>OCTOBER 13, 1980</u>											
St. Blue Lake 3-10	10-80	63.3	6999	2852	.285	2850	3178	5-1-79	- 328	1116	
<u>OCTOBER 19, 1981</u>											
St. Blue Lake 1-9A	10-81	62.5	7047 TVD	2597	.26	2594	NOT USED	IN CALCULATIONS		1022	
<u>NOVEMBER 4, 1981</u>											
Simpson-St. Blue Lake "A" 1-16	12-77	23	7109	2616	.321	2616	2850	10-13-80	- 234	733	2028
<u>MAY 4, 1982</u>											
St. Blue Lake "C" 3-10	10-80	24	7016	2463	.32*	2455	2616	11-4-81	-161	1790	1255
<u>OCTOBER 11, 1983</u>											
Simpson-St. Blue Lake "A" 1-16	12-77	18	7109	2063	.32*	2063	2455	5-4-82	-392	535	1700

* Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION BLUE LAKE 16-28N-5W

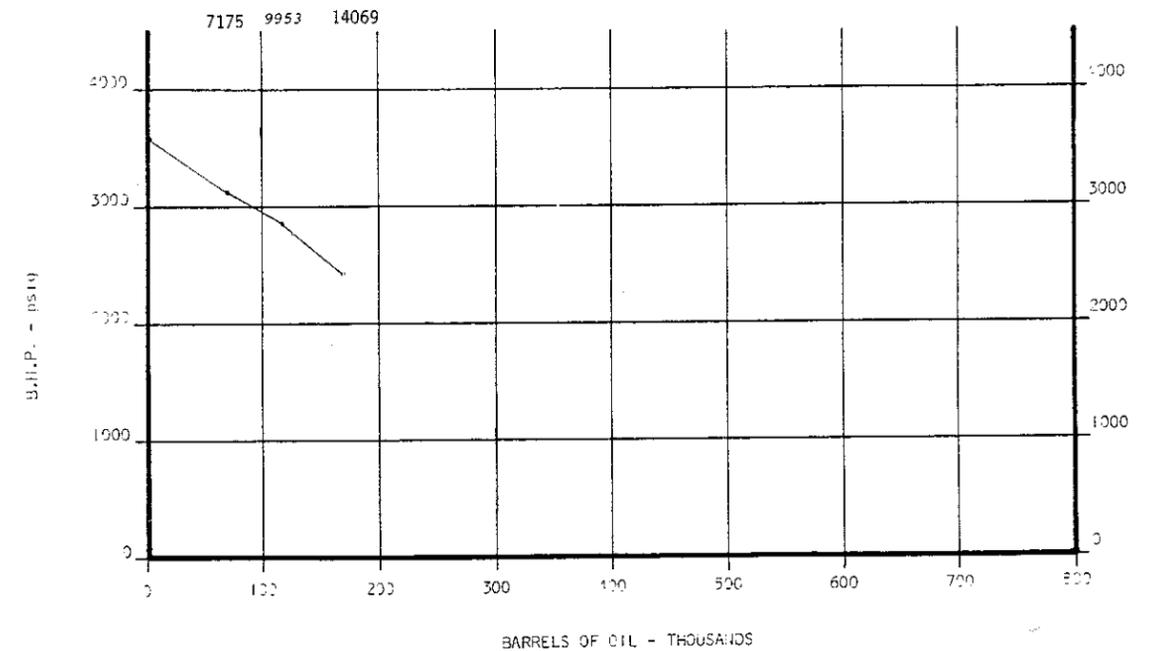


*Estimated

FIELD NAME BLUE LAKE 16A-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 12-78 VIRGIN PRESSURE 3581 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. #	5811 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
<u>JANUARY 6, 1979</u>											
Moriarity #1-16	12-78	21.5	7066	3572	.263	3572				1875	1812
<u>JULY 20, 1979</u>											
St. Blue Lake "G" #5-17	5-17 7-79	71	7080	3570	.238	3581				2187	2269
<u>OCTOBER 18, 1980</u>											
Moriarity #1-16	12-78	72	7066	3129	.127	3133	3581	7-20-79	- 448	2390	2551
<u>OCTOBER 30-31, 1981</u>											
St. Blue Lake "G" #5-17	7-79	19.3	7089	2858	.517	2877				1988	2142
Moriarity #1-16	12-78	24	7066	2865	.109	2868				2191	2387
<u>Average</u>											
						2873	3133	10-18-80	- 261		
<u>MARCH 2, 1982</u>											
St. Blue Lake "G" #5-17	7-79	49	7065	2781	.231	2795	2873	10-31-81	- 78	2076	2081
<u>NOVEMBER 14, 1983</u>											
St. Blue Lake "G" #5-17	7-79	48	7090	2420	.200	2427	2795	3-2-82	-368	1900	1900

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION Blue Lake 16A-28N-5W

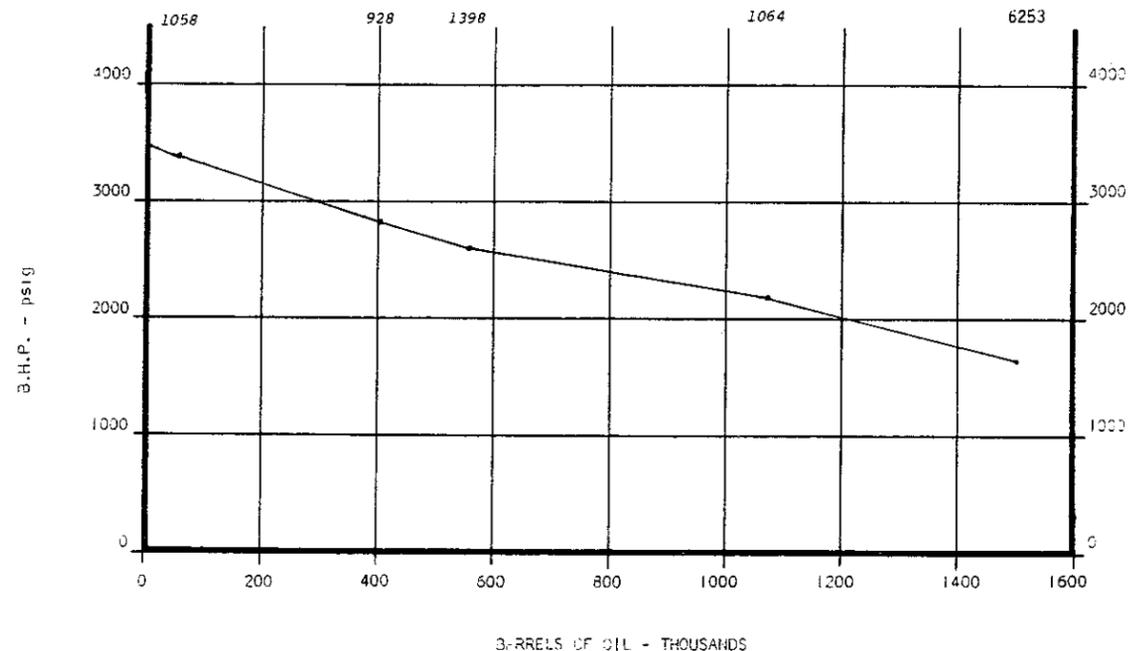


STATE OF MICHIGAN

FIELD NAME BLUE LAKE 16B-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 11-83 VIRGIN PRESSURE 2539 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5939 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Simpson "X" 3-16	11-83	236	7283	2539	NOVEMBER 11, 1983 .400	2539	INITIAL TEST		1702	1711	

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 BLUE LAKE 17-28N-5W



STATE OF MICHIGAN

FIELD NAME BLUE LAKE 17-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 10-76 VIRGIN PRESSURE 3481 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5646 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Hall Hensley #1-17	10-76	68	7046	3481	OCTOBER 22, 1976 .27	3481	INITIAL PRESSURE		1720		
St. Blue Lake 1-17	9-77	71.3	7058	3377	SEPTEMBER 12, 1977 .289	3376			1588	674	
St. Blue Lake 2-17	9-77	70.8	7062	3374	.270	3368			1574	1149	
					AVERAGE	3372	3481	10-22-76	- 109		
St. Blue Lake 1-17	9-77	97.3	7058	2819	DECEMBER 31, 1978 .287	2818	3372	9-12-77	- 554	1157	207
St. Blue Lake 1-17	9-77	49.5	7058	2585	JUNE 20, 1979 .294	2584	2818	12-31-78	- 234	1145	1889
St. Blue Lake "G" #2-17	9-77	45.3	7062	2195	MARCH 18, 1981 .288	2189	2584	6-20-79	- 395	866	1592
St. Blue Lake "G" #2-17	9-77	48	7110	1646	DECEMBER 14, 1983 .046	1643	2189	3-18-81	-546	1315	1315

STATE OF MICHIGAN

FIELD NAME BLUE LAKE 17A-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 9-77 VIRGIN PRESSURE 3484 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5575 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
St. Blue Lake "L" #3-17	9-77	72	6865	3484	SEPTEMBER 23, 1977 126	3484	INITIAL TEST		2659	2661	
St. Blue Lake "L" #3-17	9-77	16.5	6865	1836	MAY 29, 1981 13*	1836	3484	9-23-77	-1648	1454	1568
St. Blue Lake "L" #3-17	9-77	49.8	6865	1081	SEPTEMBER 14, 1982 348	1081	1836	5-29-81	-755	769	894
St. Blue Lake "L" #3-17	9-77	49.3	6865	724	JANUARY 28, 1984 .019	724	1081	9-14-82	-357	602	

* = Accumed

FIELD NAME: BLUE LAKE 18-28N-5W

FIELD NAME BLUE LAKE 18-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-75 VIRGIN PRESSURE 3487 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5675 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
State Blue Lake #1-18	5-75	2	6972	3487	.2834	3487	MAY 30, 1975				
State Blue Lake #1-18	5-75	24	6972	3439	.279	3439	3487	5-30-75	- 48	1690	2659
State Blue Lake #1-18	5-75	48	6972	3400 Extrapolated	.273	3401	3439	4-28-76	- 38	1681	2447
State Blue Lake #1-18	5-75	48	6972	3386	.286	3387	3401	2-18-77	- 14	1576	2458
St. Blue Lake "E" #3-18	11-77	71.3	6979	3329	.276	3326	3387	4-12-77	- 61	1650	
St. Blue Lake "G" #4-17	7-78	137	6975	3282	.327	3282	3326	11-19-77	- 44	1563	1543
St. Blue Lake "E" #1-18	5-75	94.5	6961	3247	.341	3251	3282	7-30-78	- 31	1374	2187

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERNAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5675 FEET	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake "E" #1-18	5-75	24+	6974	2736	.267	2736	OCTOBER 4, 1983			1080	2100
St. Blue Lake "E" #3-18	11-77	28.5	6967	2740	.265	2740				1660	1660
St. Blue Lake "G" #4-17	7-78	24+	6975	2752	.280	2752				1055	2080
					AVG	2748	2880	6-1-82	-132		
					AVG	2738	2748	10-4-83	-10		
St. Blue Lake "E" #1-18	5-75	--	6974	2732	.286	2732	JANUARY 10, 1984			1080	2140
St. Blue Lake "E" #3-18	11-77	--	6967	2740	.300	2740				1055	
St. Blue Lake "G" #4-17	7-78	--	6975	2741	.292	2741				980	2120
					AVG	2738	2748	10-4-83	-10		

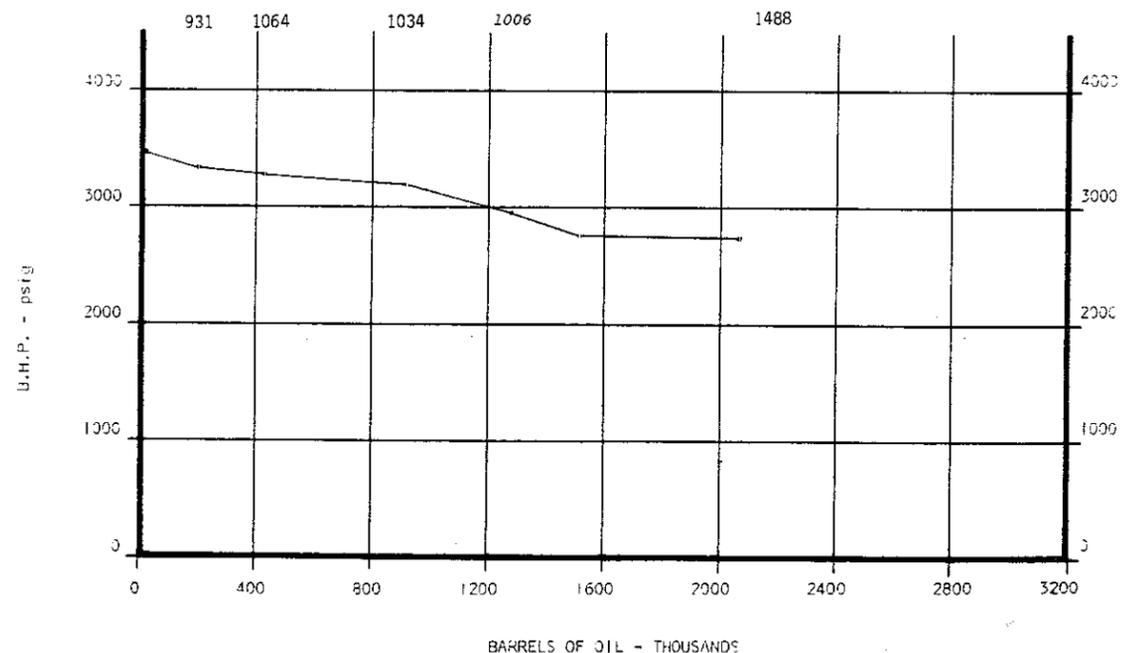
REMARKS:

BLUE LAKE 18-28N-5W

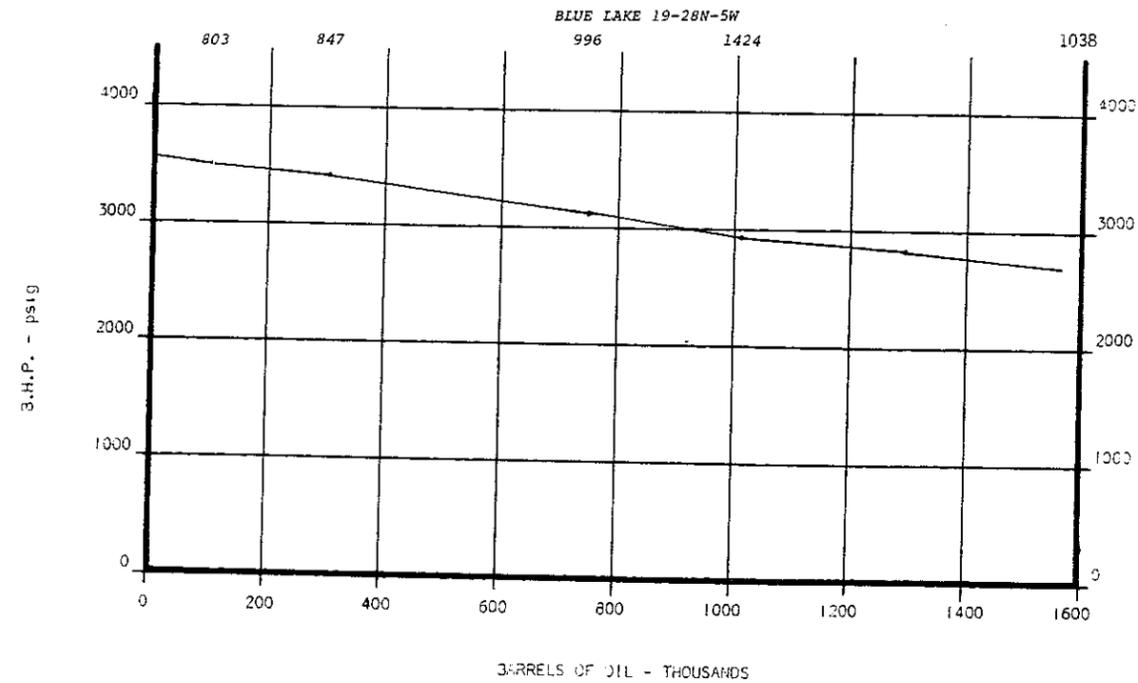
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5675 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake "G" #4-17	7-78	25	6975	3185	.288	3185	JUNE 19, 1980			1438	1764
St. Blue Lake "E" #1-18	5-75	25	6972	3188	.284	3189				1438	2461
				Average	3187	3251	12-31-78	- 64			
							JANUARY 9 (#1-18), 5 (#3-18) 1981				
St. Blue Lake "E" #1-18	5-75	25.8	6972	3025	.290	3026				1502	2287
St. Blue Lake "E" #3-18	11-77	42.5	6979	3029	.317	3025	3187	6-19-80	- 162	1504	1029
				Average	3025						
							JULY 14, 1981				
St. Blue Lake "E" #1-18	5-75	46	6972	2971	.288	2972				1267	2256
St. Blue Lake "E" #3-18	11-77	47.5	6979	2982	.284	2979				1221	1025
St. Blue Lake "G" #4-17	7-78	45.3	6975	2982	.288	2982	3025	1-15-81	- 47	1206	1811
				Average	2978						
							JUNE 1, 1982				
St. Blue Lake "E" #3-18	1-77	NA	6979	2877	.282	2874				1210	787
St. Blue Lake "E" #1-18	5-75	NA	6972	2884	.282	2885	2978	7-14-81	-98	1478	1697
					.2880						

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION Blue Lake 18-28N-5W



BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



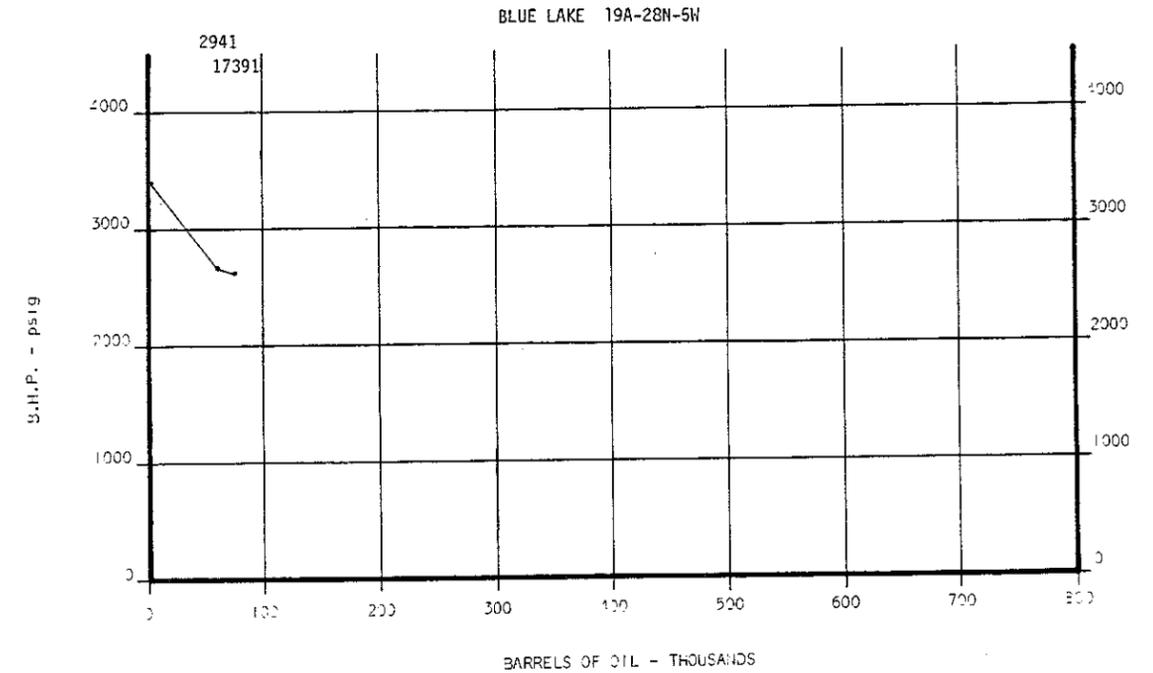
STATE OF MICHIGAN

FIELD NAME BLUE LAKE 19a-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-77 VIRGIN PRESSURE 3400* NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5643 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake "G"	2-19 12-77	72	6967	3012	.274	3012	3400	12-77	- 388	2021	1946
St. Blue Lake "G"	2-19 12-77	168.8	6967	2679	.184	2679	3012	12-10-77	- 333	2098	2097
St. Blue Lake "G"	#2-19 12-77	140.8	6967	2671	.552	2671	2679	11-3-78	- 8	867	881
St. Blue Lake "G"	#2-19 12-77	144	6929	2648	.531	2668	2671	12-10-79	- 3	0	0

* Estimated Virgin Pressure

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION



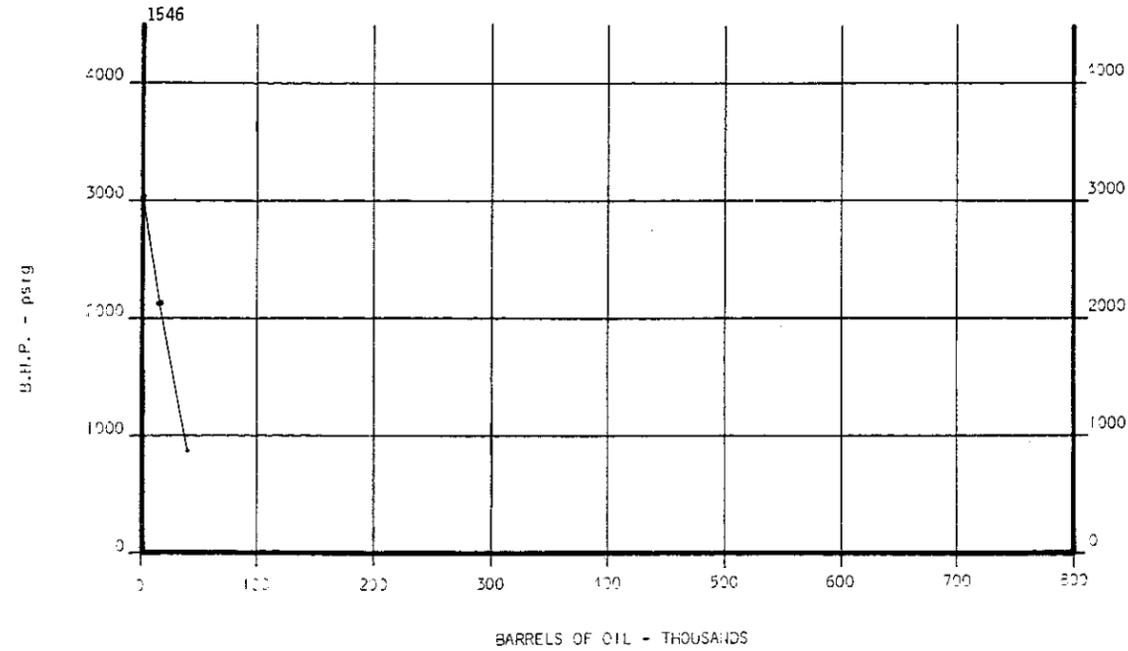
STATE OF MICHIGAN

FIELD NAME BLUE LAKE 19B-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 1-79 VIRGIN PRESSURE 3014 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5694 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.		
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.	
Lachniet St. Blue Lake #4-19	1-79	63.3	6980	3014	.442	3014	3014	JANUARY 8, 1979			1145	
Lachniet St. Blue Lake #4-19	1-79	163	6980	2074	.545	2074	2074	NOVEMBER 11, 1979			144	993
Lachniet St. Blue Lake #4-19	1-79	N.A.	6980	2160	.521	2160	3014	JUNE 24, 1980	1-8-80	- 854	868	912
Lachniet St. Blue Lake #4-19	1-79	382.8	6980	1339	.50*	1339	2160	JULY 14, 1981	6-24-80	-821	89	601
Lachniet St. Blue Lake #4-19	1-79	Flowing	6994	868	.339	863	1339	DECEMBER 4, 1981	7-14-81	-476	99	565

* = Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Blue Lake 19B-28N-5W



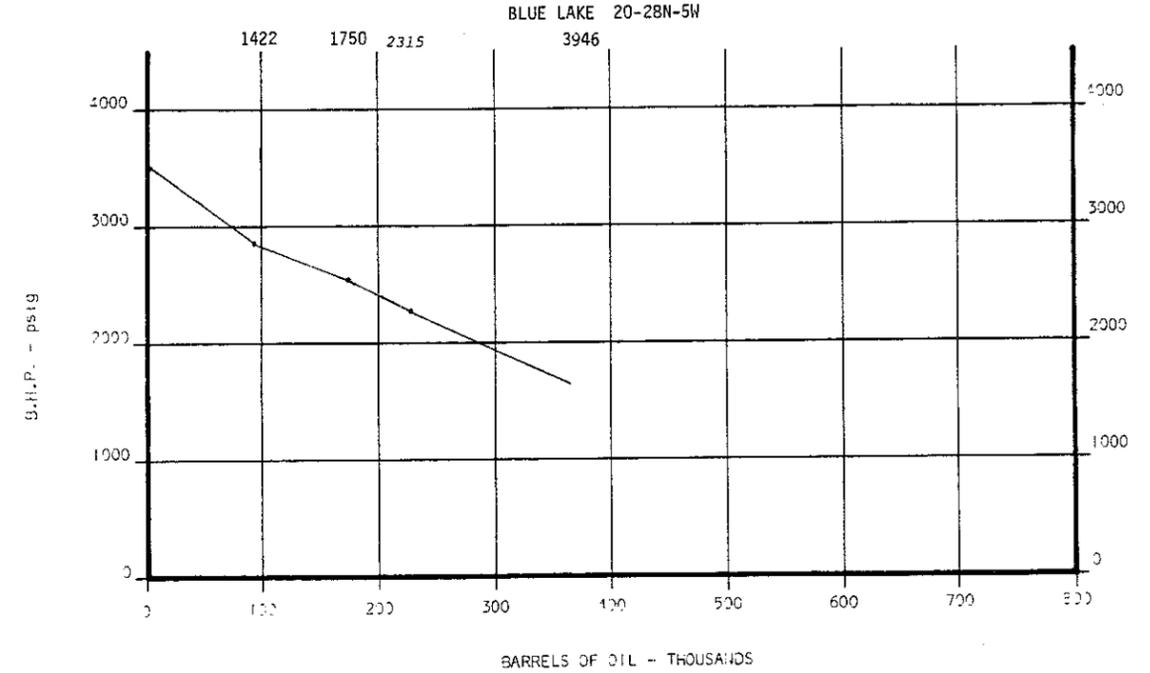
STATE OF MICHIGAN

FIELD NAME BLUE LAKE 20-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 3-78 VIRGIN PRESSURE 3514 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5686 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
St. Blue Lake "G" #1-20 3-78	70	6963	3514	281	3514	MARCH 11, 1978 INITIAL TEST			1774	1768	
St. Blue Lake "G" #1-20 3-78	225	6963	2871	.272	2871	3514	3-11-78	- 643	1275	1328	
St. Blue Lake "G" #1-20 3-78	25.5	6963	2657	.283	2657	2871	4-30-79	- 214	1402	2057	
St. Blue Lake "G" #1-20 3-78	383	6963	2520	.287	2520	2657	11-6-79	- 137	1817		
St. Blue Lake "G" #1-20 3-78	21	6963	2028	153	2028	2520	2-29-80	- 492	1176	1475	
St. Blue Lake "G" #1-20 3-78	48	6990	1652	20*	1647	2028	11-17-81	-381	49	1325	

* = Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
BLUE LAKE 20-28N-5W



STATE OF MICHIGAN

FIELD NAME BLUE LAKE 21-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 9-74 VIRGIN PRESSURE 3665* NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5876 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
LaMotte-Batson #2-21 1-79	51.5	7200	3665	.120	3665*	JANUARY 22, 1979 INITIAL TEST			2781		
Fritz #1-22 11-80	69	7231	2857	.104	2858	3665	1-22-79	- 807	2187	2201	

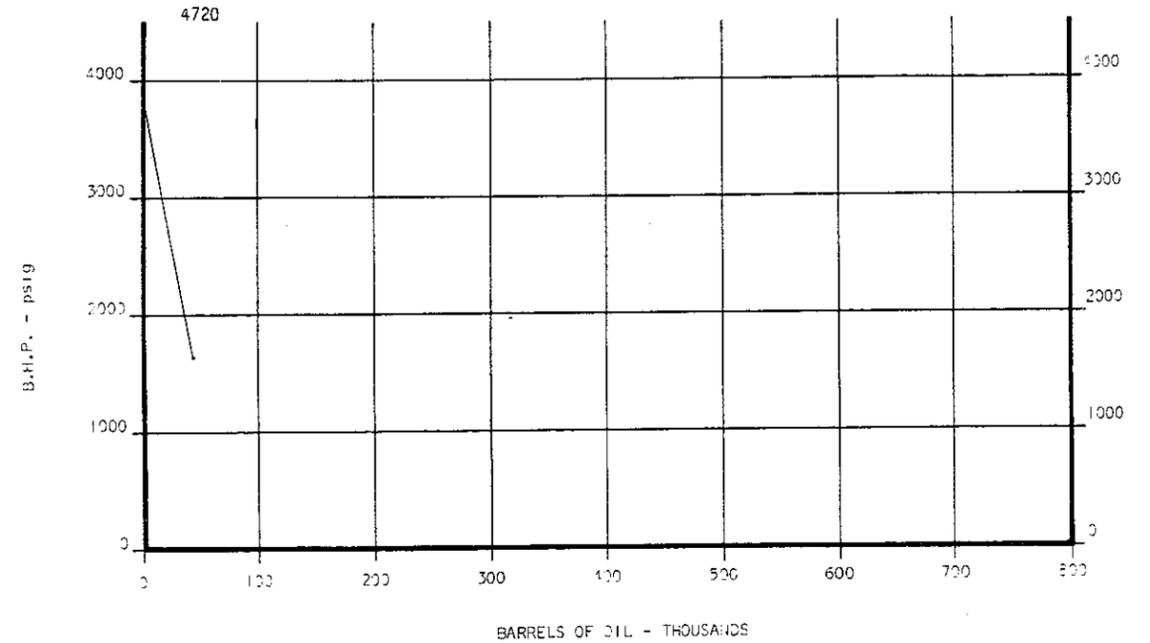
*At the time of this test, the Fritz Unit 1-21 had produced 1031 BHls. with no gas sales.

FIELD NAME BLUE LAKE 23-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-77 VIRGIN PRESSURE 3767 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5637 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Richman St. Blue lake #1-23	12-77	101	6993	3767	.132	3767				2864
<u>DECEMBER 21, 1976</u>										
Richman St. Blue lake #1-23	12-77	6	6993	3172	.11	3172	3767	12-21-76	- 595	2423
<u>FEBRUARY 2, 1979</u>										
Richman St. Blue lake #1-23	12-77	170	6993	1550	.046	1550	3172	2-2-79	- 1622	1234
<u>APRIL 8, 1980</u>										
St. Blue lake #2-23A	5-81	15 4	7205 TVD	2053	.10*	2033	NOT USED	IN CALCULATIONS		
<u>MAY 12, 1981</u>										
Richman St. Blue Lake #1-23	12-77	25	6993	928	.05	928	1550	4-8-80	-622	652
<u>DECEMBER 12, 1983</u>										

* Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 BLUE LAKE 23A-28N-5W



FIELD NAME BLUE LAKE 23A-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-81 VIRGIN PRESSURE 3758 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5875 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Blue Lake #3-23A	9-81	292	7190 TVD	3758	.24	3758				2959
<u>SEPTEMBER 24, 1981</u>										
St. Blue Lake #3-23A	9-81	26	7132 TVD	1639	.09	1645	3758	9-24-81	-2113	1307
<u>DECEMBER 12, 1983</u>										

FIELD NAME BLUE LAKE 27-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-3-72 VIRGIN PRESSURE 3766 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. @ 5934 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Blue Lake 1-27A	2-3-72	96		7155	3759	N.A.	3759	1st test		2848 N.A.	
<u>FEBRUARY 5, 1972</u>											
Blue Lake 1-27A	2-3-72	26		7150	3765	N.A. *	3766	3759	2-5-72	+ 6	2880 N.A.
<u>FEBRUARY 20, 1972</u>											
Blue lake 1-27A	2-3-72	18		7056	3492	11	3503	3766	2-20-72	- 263	2848
<u>FEBRUARY 14, 1975</u>											
Blue Lake 1-27A	2-72	6 Days		7061	3656	.134	3669	3503	2-14-75	+ 166	2770
<u>MARCH 7, 1975</u>											
Blue Lake 1-27A	2-72	55		7056	3492	11	3503	3669	3-7-75	- 166	2622
<u>MARCH 25, 1975</u>											
Blue Lake 1-27A	2-72	67		7061	512	.013	513	3503	3-25-75	-2990	425
<u>AUGUST 24, 1978</u>											
Blue Lake #1-27A	2-72	25		7061	72	001	72	513	8-24-78	-441	65
<u>FEBRUARY 24, 1982</u>											

REMARKS: * .250 assumed

FIELD NAME BLUE LAKE 28-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 12-17-70 VIRGIN PRESSURE 2904 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5889 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Blue Lake 1-28	12-70	N.A.	7120	2904	.110	2904				2232 2375
								INITIAL TEST		
ST. Blue Lake "A" #1-28	12-70	N.A.	6875	623	.021	628	2904	11-5-77	- 2276	506
St. Blue Lake "A" #1-28	12-70	N.A.	6875	453	.010	455	628	4-18-77	- 173	370
St. Blue Lake "A" #1-28	12-70	48.5	6875	334	.01	336	445	4-14-78	- 199	264
St. Blue Lake "A" #1-28	12-70	N.A.	5400	332	.01	349	336	12-20-78	- 13	

REMARKS:

STATE OF MICHIGAN

FIELD NAME BLUE LAKE 28A-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 10-78 VIRGIN PRESSURE 3917 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5984 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Simpson "C" #2-28	10-78	86.5	7312	3917	.10*	3917				3032
								INITIAL TEST		
Simpson "C" 2-28	10-78	140	7312	1545	.05*	1545	3917	10-10-78	-2372	
Simpson "C" 2-28	10-78	23.3	7312	626	.016	626	1545	8-18-80	-919	516 523

*Estimated

FIELD NAME BLUE LAKE 29-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-74 VIRGIN PRESSURE 3562 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5555 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Simpson #1-29	2-74	66	6975	3562	.116	3562				
								INITIAL TEST		
Simpson #1-29	2-74	118.3	6978	1290	.061	1274	3562	3-1-74	- 2288	871
Simpson #1-29	2-74	54	6978	890	.027	887	1274	1-14-78	- 387	716
Simpson #1-29	2-74	68.3	6978	822	.019	822	887	12-20-78	- 65	676 22

REMARKS:

STATE OF MICHIGAN

FIELD NAME BLUE LAKE 30-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 2-79 VIRGIN PRESSURE 3056 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5694 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Simpson #1-30	5-79	92.8	7001	3056	.18	3056				2335
								INITIAL TEST		
Simpson #1-30	5-79	--	7001	2902	.532	2962	3056	5-12-79	- 94	1222
Simpson #1-30	5-79	--	7000	2739	.50*	2739	2962	7-2-81	-223	1000

* = Assumed

FIELD NAME BLUE LAKE 32-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 7-77 VIRGIN PRESSURE 4441 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5940 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Blue Lake "H" #1-32 7-77	84	7290	4330	.11	4330	INITIAL TEST					3497
JULY 25, 1977											
St. Blue Lake "H" #1-32 7-77	215.8	7086	4419	.108	4441	INITIAL TEST					3703
AUGUST 8, 1980											
St. Blue Lake "H" #1-32 7-77	NA	7086	4235	.118	4259	4441	8-8-80	-182			
JULY 21, 1981											

FIELD NAME BLUE LAKE 33-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 12-71 VIRGIN PRESSURE 3920 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5859 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Simpson #1-33	12-71	MONIHS	7100*	3920	.10*	3920	INITIAL TEST				
SEPTEMBER, 1972											
Simpson #1-33	12-71	116.5	7247	400	.02	397	3920	9-72	- 3523		326
JANUARY 14, 1978											
Simpson "C" 1-33	12-71	59.4	7247	332	.012	330	397	1-14-78	- 67		263 312
DECEMBER 20, 1978											
Simpson "C" #1-33	12-71	99.5	7247	466	.012	464	NOT USED IN CALCULATIONS				384 378
MARCH 20, 1981											
Simpson "C" 1-33	12-71	121.3	7247	474	.020	471	NOT BUILT-UP				388 393
MAY 8, 1983											

* Estimated

FIELD NAME BLUE LAKE 34-28N-5W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 10-79 VIRGIN PRESSURE 4261 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5901 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Brown #2-34	10-79	72.5	7192	3938	.10*	3938	INITIAL TEST				3161
OCTOBER 29, 1979											
Simpson "Q" #2B-33 1-83	119.8	7344 TVD	4281	.124	4261	INITIAL TEST					3357
JANUARY 18, 1983											
Simpson "Q" #2B-33 1-83	--	7344 TVD	4107	.119	4088	4261	1-18-83	-173			3272 241
NOVEMBER 10, 1983											
Simpson "Q" #2B-33 1-83	194	7344 TVD	3918	.117	3899	4088	11-10-83	-189			3096
FEBRUARY 17, 1984											

*Estimated

FIELD NAME BOARDMAN 3-26N-8W COUNTY KALKASKA TOWNSHIP BOARDMAN DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 11-73 VIRGIN PRESSURE 3055 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5723 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St Boardman 1-3	11-73	63	6710	3055	.176	3055	INITIAL TEST				
NOVEMBER 12, 1973											
St. Boardman 1-3	11-73	66	6815	3026	.248	3000	3055	11-12-73	- 55		
DECEMBER 15, 1973											

REMARKS:

STATE OF MICHIGAN

FIELD NAME BOARDMAN 4-26N-8W COUNTY KALKASKA TOWNSHIP BOARDMAN DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-71 VIRGIN PRESSURE 3567 NO PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5607 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Boardman 1-4	9-71	Months	6600	2931	APRIL 14, 1976 .11	2931	INITIAL	REPORTED PRESSURE			2240
St. Boardman 1-4	9-71	Months	6797	3589	AUGUST 27, 1976 .11*	3567	ASSUMED	INITIAL PRESSURE			2740
St. Boardman 1-4	9-71	64	6797	3557	DECEMBER 21, 1977 .11*	3536	INITIAL	TEST			2678
St. Boardman 1-4	9-71	56	6797	2804	AUGUST 25, 1978 .11*	2783	3567	8-27-76	- 784		2110
St. Boardman 1-4	9-71	173	6797	1408	APRIL 20, 1982 .12	1384	2783	8-25-78	-1399		1102

* Assumed

STATE OF MICHIGAN

FIELD NAME BOARDMAN 4A-26N-8W COUNTY KALKASKA TOWNSHIP BOARDMAN DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-18-72 VIRGIN PRESSURE 3710 NO PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5607 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Boardman #2-4	1-72	72	JANUARY 18, 1972 6595	3547		3547	INITIAL	TEST			2624
St. Boardman #2-4	1-72		OCTOBER 3, 1972 6595	3710	.140	3710	INITIAL	TEST			
St. Boardman #2-4	1-72	128	MAY 5, 1973 6595	3658	.150	3658	3710	10-3-72	-52		2734
St. Boardman 2-4	1-72		MARCH 7, 1974 6595	2611	(M. P.S.C. 4-Point test)	2611	3658	5-5-73	- 1047		
St. Boardman 2-4	1-72	291	JULY 29, 1975 6595	1486	.04	1486		NOT USED IN CALCULATIONS			1206
St. Boardman 2-4	1-72	1464	MARCH 24, 1976 6596	1543	.048	1543	2611	3-7-74	- 1068		1230
St. Boardman 2-4	1-72	53	FEBRUARY 12, 1979 6510	561	.023	563	1543	3-24-76	- 980		416
St. Boardman 2-4	1-72	263	JANUARY 18, 1980 6595	490	012	490	563	2-12-79	- 73		415

REMARKS:

FIELD NAME: BOARDMAN 4A-26N-8W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5607 FEET	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE		
St. Boardman #2-4	1-72	7 da	6570	280	APRIL 28, 1983 .02	281	490	1-18-80	-209	230

REMARKS:

STATE OF MICHIGAN

FIELD NAME BOARDMAN 4B-26N-8W COUNTY KALKASKA TOWNSHIP BOARDMAN DATE OF TESTS

PRODUCING FORMATION SAL. -NIAG. DISCOVERY DATE 11-81 VIRGIN PRESSURE 3689 NO. PRODUCING WELLS

OPERATOR; LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5811 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
St. Boardman #3-4	11-81	110	6810	3689	NOVEMBER 18, 1981 .11	3689	INITIAL	TEST		2762

STATE OF MICHIGAN

FIELD NAME BOARDMAN 5-26N-8W COUNTY KALKASKA TOWNSHIP BOARDMAN DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-9-71 VIRGIN PRESSURE 3521 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5690 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Boardman #1-5	11-71									
			OCTOBER 3, 1972 6671	3521	.150	3521		INITIAL TEST		
St. Boardman #1-5	11-71	480	OCTOBER 2, 1973 6670	3409	.200	3409	3521	10-3-72	- 112	
St. Boardman #1-5	11-71	96	MARCH 24, 1976 6671	1433	.042	1434	3409	10-2-73	- 1975	1156

REMARKS:

STATE OF MICHIGAN

FIELD NAME BOARDMAN 5A-26N-8W COUNTY KALKASKA TOWNSHIP KALKASKA DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-80 VIRGIN PRESSURE 3567 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5734 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Boardman Unit #3-8A	5-80	45.6	6721IVD	3567						
St. Boardman #3-8A	5-80	5 DA	6767 TVD	394	.08	390	3567	5-10-80	-3177	317

*Estimated

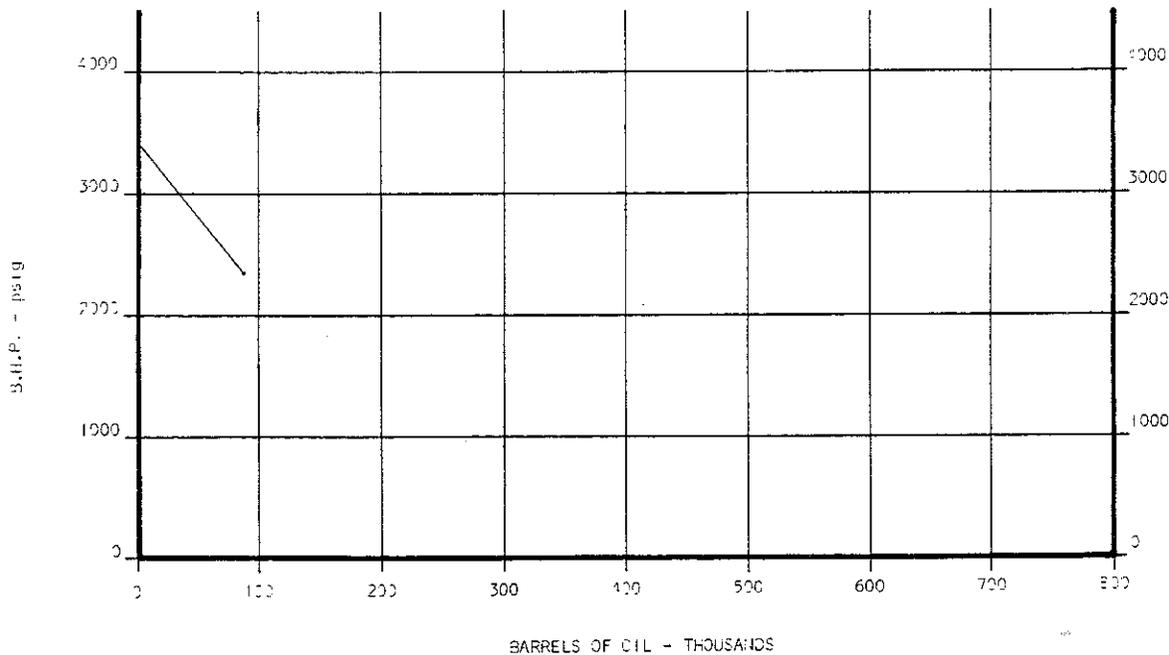
FIELD NAME BOARDMAN 6-26N-8W COUNTY KALKASKA TOWNSHIP BOARDMAN DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-73 VIRGIN PRESSURE 3406 NO PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENI LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5585 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Boardman #1-6	9-73	289	6567	3406	265	3406	INITIAL TEST				
St. Boardman #1-6	9-73	1051	6567	3386	435	3386	3406	9-21-73	- 20	1509	Pkr.
St Kalkaska#1-31B	9-82	68	6666 TVD	2377	29	2348	3386	10-24-73	-1038	1095	

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION

BOARDMAN 6-26N-8W



FIELD NAME BOARDMAN 6a-26N-8W COUNTY KALKASKA TOWNSHIP BOARDMAN DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-78 VIRGIN PRESSURE 3387 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5877 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Boardman #2-6	7-78	111.5	6717 TVD	3387	.131	3387		INITIAL TEST		2490
St. Boardman #2-6	7-78	1 yr.	6717 TVD	1944	.13	1964		NOT USED IN CALCULATIONS		1557
St. Boardman #2-6B	2-83	64	6694 TVD	2401	.07*	2413	3387	7-17-78	-974	1660

* = Estimated

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5390 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Blue Lake 1-6	1-75	432	6665	1267	.038	1268	1367	1-13-78	- 99	1020
St. Coldsprings "C" #1-1	10-73	48	6676	877	.085	878	1268	8-17-78	- 390	718 712

REMARKS

FIELD NAME COLDSPRINGS 1-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-73 VIRGIN PRESSURE 3420 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5390 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
St. Coldsprings #1-1	10-73	31	6675	3420	.142	3420		INITIAL TEST		
St. Blue lake 1-6	1-75	42	6664	3174	.119	3176	3420	10-23-73	- 244	2370
St. Blue Lake 1-6	1-75	Shut-in since completion	6654	2909	.130	2912	3176	1-13-75	- 264	2180
St. Blue Lake 1-6	1-75	5	6665	2160	.071	2161	2912	6-9-75	- 751	1686
St. Coldsprings 1-1	10-73	28.75	6675	1789	.057	1789	2162	3-30-76	- 373	1423 1420
St. Coldsprings #1-1	10-73	480	6676	1520	.043	1520	1789	10-27-76	- 269	1220 1226
St. Coldsprings #1-1	10-73	120.3	6676	1367	.040	1367	1520	4-30-77	- 153	1096 1124

REMARKS:

FIELD NAME COLDSPRINGS 1A-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-76 VIRGIN PRESSURE 3375 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5312 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Wistrand #2-1	9-76	162.5	6600 est	3375	N.A.	3375		INITIAL TEST		2640
Wistrand-St.Cold-Springs #3-1	6-81	140.5	6581	3363	.157	3380	3375	9-23-76	+ 5	2555 2635
Wistrand-St. Cold-Springs #3-1	6-81	75.3	6581	3037	.179	3057	3380	4-30-81	- 323	2283 2373
Wistrand-St. Cold-Springs #3-1	6-81	21.8	6581	2367	.086	2370	3057	6-19-81	- 687	1848

FIELD NAME COLDSPRINGS 10-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 7-82 VIRGIN PRESSURE 2725 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5373 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
SEPTEMBER 28, 1982										
St. Coldsprings-Osborne 7-82	#1-108 91		6645 TVD	2725	.277	2725			INITIAL TEST	870 1370
MARCH 19, 1983										
St. Coldsprings-Osborne 7-82	#1-108 NA		6645 TVD	2147	280	2147	2725	9-28-82	-578	686 1148

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 12-28N-6W COUNTY KALKASKA TOWNSHIP BLUE LAKE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-74 VIRGIN PRESSURE 3230 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5419 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
JANUARY 27, 1974										
Hart St.-Blue Lake #1-7 1-74		48	6702	3230	.110	3230			Initial Test	
JANUARY 18, 1975										
Hart St. Blue Lake #1-7	1-74	2	6703	2432	.110	2432	3230	1-27-74	- 798	1894
MARCH 29, 1976										
Hart St. Blue Lake #1-7 1-74		5.2	6703	1483	.032	1483	2432	1-18-74	- 949	1266
MAY 17, 1976										
Hart St. Blue Lake #1-7 1-74		N.A.	6402	1293	.032*	1303	1483	3-29-76	- 180	938
DECEMBER 13, 1976										
Simpson State Coldsprings 12-76	"C" #1A-13 62.25 6974 TVD			1253	.033	1250	1303	5-17-76	- 53	
APRIL 30, 1977										
St. Coldsprings "A" #1-12 2-73		480	6692	1151	.033	1151	1250	12-13-76	- 99	938 945

REMARKS: * Assumed

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5419 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
JANUARY 13, 1978										
Hart St. Blue Lake #1-7 1-74		22	6702	1001	.026	1001				820
St. Coldsprings "A" #1-12 2-73		53.5	6692	993	.060 AVERAGE	994 998		1151	4-30-77	- 154 637
JUNE 19, 1978										
St. Coldsprings "A" #1-12 2-73		N.A.	6712	914	.025	914		998	1-13-78	- 84 746 770
AUGUST 17, 1978										
Hart St. Blue Lake #1-7 1-74		31.2	6703	905	.024	905		914	6-19-78	- 9 750

REMARKS:

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 18-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-74 VIRGIN PRESSURE 3392 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5302 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
OCTOBER 9, 1975										
St. Coldsprings #1-7 10-75		11	6429	3390	.292	3392			INITIAL PRESSURE	2065 880
SEPTEMBER 29, 1976										
Southwell #1-7	9-76	N.A.	6438	3157	.563	3157			INITIAL PRESSURE	1334 1459

FIELD NAME COLDSPRINGS 19-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TEST
 PRODUCING FORMATION SAL-NTAG DISCOVERY DATE 8-4-71 VIRGIN PRESSURE 3377 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES		
						P.S.I. @ 5487 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.	
St. Coldspring 1-10	8-71		6615	3377		3377	1st test					
St. Coldspring 1-30 Simpson #4	8-71	20.25	6632	3196	.300	3191			2088	Pkr.		
	8-71	48.0	6600	3157	.280	3153			2061	2500		
			AVERAGE			3172	3377	8-71	- 205			
Simpson 1-25	11-72	66	6660	3172	.300 *	3152	3172	10-72	- 20			
Simpson #4	8-71	49	6600	3123	.240	3123			2186	2350		
St. Coldsprings 1-30	8-71	43	6481	3087	.272	3123	3152	11-72	- 29	2025	Pkr.	
			AVERAGE			3123						
St. Rapid River "E" 1-25	8-71	66	6620	3086	.300*	3079	3123	4-73	- 44	1851	2165	
Simpson #4	8-71	28	6600	3020	.260	3020			1923	2500		
St. Coldsprings 1-30	8-71	360	6621	3011	.262	3009	3079	6-12-73	- 64	1996	Pkr.	
			Average			3015						

REMARKS: * Assumed

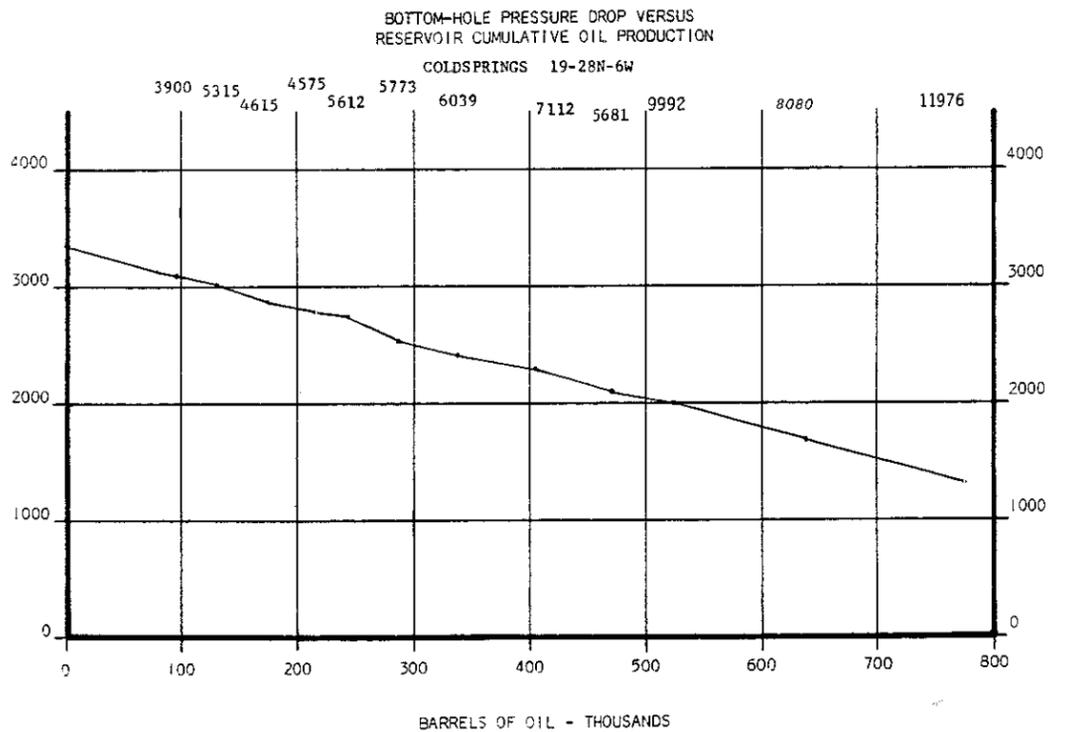
BOTTOM-HOLE PRESSURE TESTS - PAGE 2

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5487 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Coldsprings 1-30	8-71	27	6621	2860	.230	2859	3015	10-16	- 156	1878	Pkr.
St Coldsprings 1-30	8-71	26	6621	2770	.280	2768				1947	Pkr.
Simpson #1-25	11-72	26	6540	2757	.270	2771				1933	2233
Simpson #4	8-71	30	6600	2791	.270	2777	2859	5-2-74	- 82	1961	--
St Coldsprings #1-30	8-71	29	6621	2641	.270	2639	2777	10-10-74	- 138	1977	2150
St. Coldsprings #1-30	8-71	30 Days	6621	2604	.49	2607	2639	4-3-75	- 32	213	
St Rapid River "E" 1-25	6-73	24	6672	2549	.532	2509	2607	7-30-75	- 98	1735	1910
St. Rapid River "E" 1-25	6-73	24	6672	2479	.529	2439	2509	10-8-75	- 70	1656	1035
Simpson #1-25	11-72	28.5	6612	2293	.475	2283	2439	5-5-76	- 156	1018	1852
Simpson #1-25	11-72	71.5	6612	2102	.35*	2095	2283	4-13-77	- 188	1309	

REMARKS:

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES			
						P.S.I. @ 5487 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.	CSG.	
Simpson Unit 1-25	11-76	71.5	6612	TVD	2006	MARCH 12, 1979	.313	1999	2095	4-23-78	- 96	925	1480
Simpson Unit 1-25	11-76	73.3	6612	TVD	1838	DECEMBER 21, 1979	.488	1828	1999	3-12-79	- 171	883	1465
Simpson Unit 1-25	11-76	41	6612	TVD	1663	MARCH 1-2, 1981	.275	1657				317	1362
Simpson "D" #1-19 (Simpson #4)	8-71	39.5	6600		1730		.30	1730				245	1361
St. Rapid River "E" #1-25	6-73	25	6542		1694		.301	1710				226	1258
			Average			1699		1828		12-21-79	- 129		
Simpson "D" 1-19	8-71	NA	6600		1579	APRIL 24, 1982	.260	1579	1699	3-2-81	-120	1042	1260
Simpson "D" 1-19	8-71	27	6600		1322	DECEMBER 20, 1983	.340	1322				1028	1049
Simpson #1-25	11-76	99	6625		1302		.040	1301					
			AVG			1312		1579		4-24-82	-268	1069	

REMARKS:

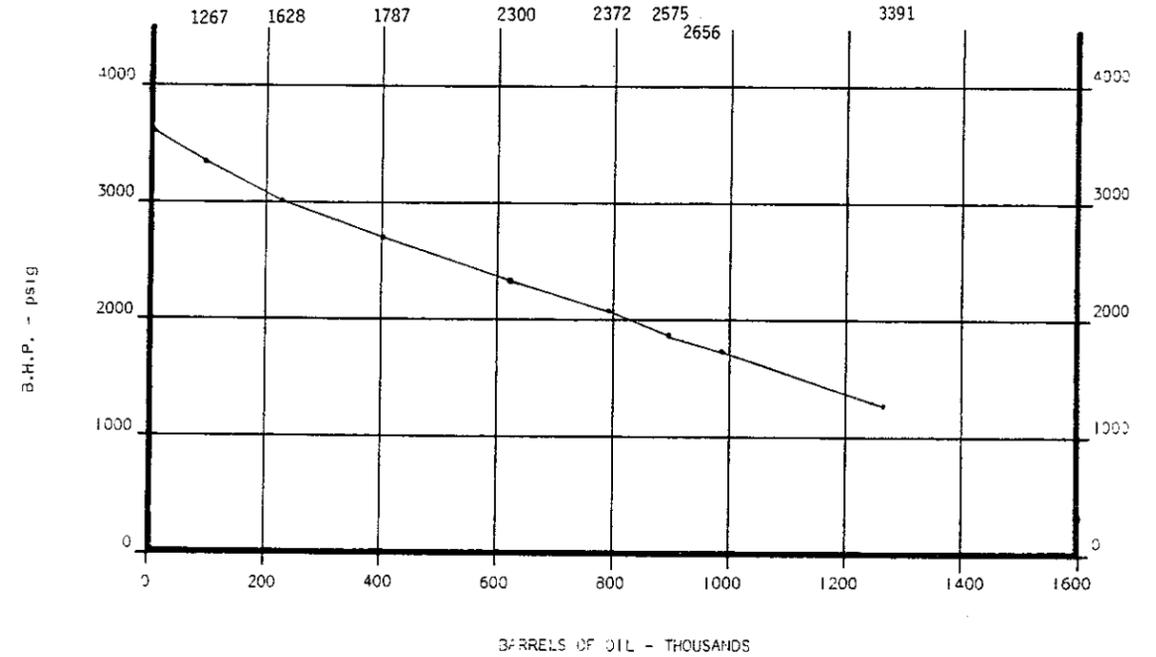


FIELD NAME COLDSPRINGS 20-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 11-8-71 VIRGIN PRESSURE 3599 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5522 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Yeulett 1	11-71										
			JANUARY 1, 1971								
			6730	3599		3599		1st test			
			APRIL 11, 1973								
Yeulett 1	11-71	30	6730	3513	.280	3513	3599	1-1-71	- 86	1794	1850
			SEPTEMBER 30, 1973								
Wilbur #2-29	9-73	66	6770	3360	.278	3352	3513	4-11-73	- 161		
			OCTOBER 12, 1973								
Yeulett 1	11-71	30	6730	3354	.310	3354	3352	9-30-73	+ 2	1807	2000
			APRIL 10, 1974								
Yeulett 1	11-71	28	6730	3179	.320	3179	3354	10-12-73	- 175	1642	1925
			OCTOBER 14, 1974								
Yeulett 1	11-71	24	6730	3003	.290	3003	3179	4-10-74	- 176	1563	2266
			APRIL 18, 1975								
Yeulett 1	11-71	25	6754	2834	.287	2827	3003	10-14-74	- 176	1990	1900
			OCTOBER 6, 1975								
Wilbur #2-29	9-73	24	6768	2709	.306	2701	2827	4-18-75	- 26	1605	2045

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 COLDSPRINGS 20-28N-6W



BARRELS OF OIL - THOUSANDS

BOTTOM-HOLE PRESSURE TESTS - Page 2

COLDSPRINGS 20-28N-6W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5522 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Wilbur #2-29	9-73	24	6768	2568							
			MAY 6, 1976								
			298	2561		2701		10-6-75	- 140	1134	1952
			APRIL 13, 1977								
Yeulett #1-20	11-71	26.7	6755	2337	.294	2330	2561	5-6-76	- 231	1301	1337
			JUNE 13, 1978								
Wilbur #2-29	9-73	24	6768	2064	.328	2056	2330	4-13-77	- 274	1246	
			MAY 5, 1979								
Wilbur #2-29	9-73	46.3	6768	1888	.325	1880	2056	6-13-78	- 176	1166	1432
			APRIL 1, 1980								
Wilbur #2-29	9-73	122	6768	1781	.299	1774	1880	5-5-79	- 106	1212	1210
			JUNE 3, 1983								
Wilbur #2-29	9-73	54	6470	1249	.030	1257	1774	4-1-80	-517	1060	1060

REMARKS:

STATE OF MICHIGAN

FIELD NAME COLDSPRINGS 20A-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION STA.-NIAG. DISCOVERY DATE 5-81 VIRGIN PRESSURE 3233 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 5613 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Wilbur #3-20	5-81	44.3	6840	3233							
			MAY 1, 1981								
			.121	3233				INITIAL TEST		2479	2522

FIELD NAME COLDSPRINGS 21-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION NIAGARAN DISCOVERY DATE 1-20-70 VIRGIN PRESSURE 3510 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5568 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Simpson #1	1-20-70		JANUARY 1971 6786	3510		3510	1st	test		
Simpson "A" 3-21	7-73	66	AUGUST 28, 1973 6763 TVD	2057	342	2065	3510	1-71	- 1445	

REMARKS:

FIELD NAME COLDSPRINGS 21A-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 8-78 VIRGIN PRESSURE 3298 NO. PRODUCING WELLS _____

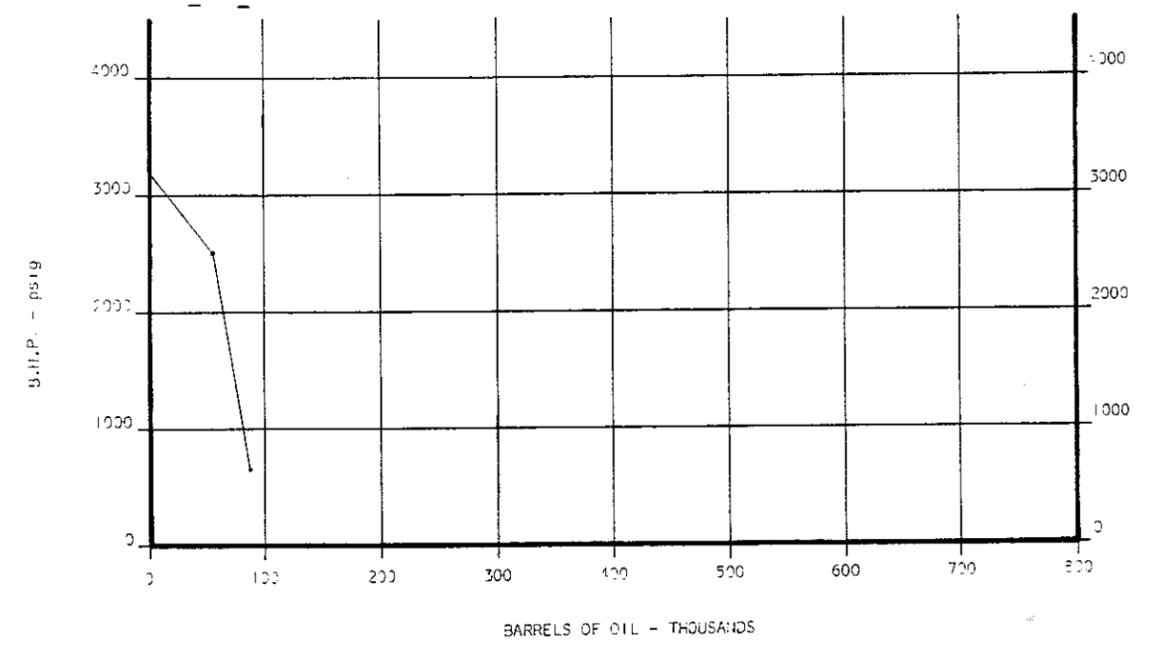
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5383 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Simpson "U" 4-21	8-78	144	6636	AUGUST 6, 1978 3298	596	3298		INITIAL TEST		1131

FIELD NAME COLDSPRINGS 22-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-76 VIRGIN PRESSURE 3200 * NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. @ 5526 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Brown Benzette	1-76	72 **	6792 TVD	2718	JANUARY 22, 1976 .297	2718		INITIAL TEST		
Brown Benzette #1-22	1-76	2165	6768 TVD	1330	NOVEMBER 6, 1980 .460	1341		NOT USED IN CALCULATIONS		1049
Brown Benzette #1-22	1-76	71.2	6752 TVD	2476	JULY 13, 1981 .432	2493	2718	11-6-80	- 225	
Gieseck #1-22	10-82	140	6763 TVD	2288	SEPTEMBER 23, 1982 .293	2294	2493	7-13-81	-199	1049 1105
Gieseck #1-22	10-82	48	6763 TVD	650	NOVEMBER 21, 1983 .313	656	2294	9-23-82	-1638	380 507

* Estimate
 ** Incomplete pressure buildup

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 COLDSPRINGS 22-28N-6W



FIELD NAME COLDSPRINGS 22A-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 8-78 VIRGIN PRESSURE 3129 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM P.S.I. @ 5485 FEET			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Simpson "T" 3-22	8-78	39.5	6707 IVD	3129	.550	3129		INITIAL TEST		884	
This well may be located in the same reservoir as is the Simpson "J" #1-28 (Coldsprings 28-28N-6W).											
Simpson "T" 3-22	8-78	---	6670 IVD	1513	.427	1529	3129	8-7-78	- 1600		
Simpson "T" #3-22	8-78	--	6706 TVD	1655	.422	1655		NOT USED IN CALCULATIONS		140	840
Simpson "T" #3-22	8-78	66	6706 TVD	1797	.520	1797	3129	8-7-78	-1332	1100	1100

FIELD NAME COLDSPRINGS 23-28N-6W COUNTY KALKASKA TOWNSHIP COLDSPRINGS DATE OF TESTS _____
 PRODUCING FORMATION Sal.-Niag. DISCOVERY DATE 9-74 VIRGIN PRESSURE 3601 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5728 FEET			INTERVAL PRESSURE DIFFERENTIAL	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Coldsprings - Simpson #1-23	9-74	54	6980	3601	.263	3601		Initial Test			
St. Coldsprings - Simpson #1-23	9-74	31.25	6950	3168*	.380	3177	3601	10-7-74	- 424	1366	2018
St. Coldsprings - Simpson #1-23	9-74	72	6951	3153	.559	3169	3177	10-20-76	- 8	614	2004
St. Coldsprings - Simpson #1-23	9-74	164.5	6905	2700	.531	2740	3169	7-15-77	-429	920	2059
St. Coldsprings - Simpson #1-23	9-74	68	6750	2821	.50**	2936		WELL REMORKED PRIOR TO TEST			
St. Coldsprings - Simpson #1-23	9-74	15	6919	2767	.496	2797	2936	7-28-80	-139		

REMARKS:

BOTTOM-HOLE PRESSURE TESTS - Page 2

FIELD NAME: COLDSPRINGS 23-28N-6W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM P.S.I. @ 5728 FEET			INTERVAL PRESSURE DIFF.	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
St. Coldsprings - Simpson "E"	11-83	4-22 62	7040	2520	.50*	2489	2797	1-14-82	-308	--	--

* = Assumed

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 COLDSPRINGS 22A-28N-6W

