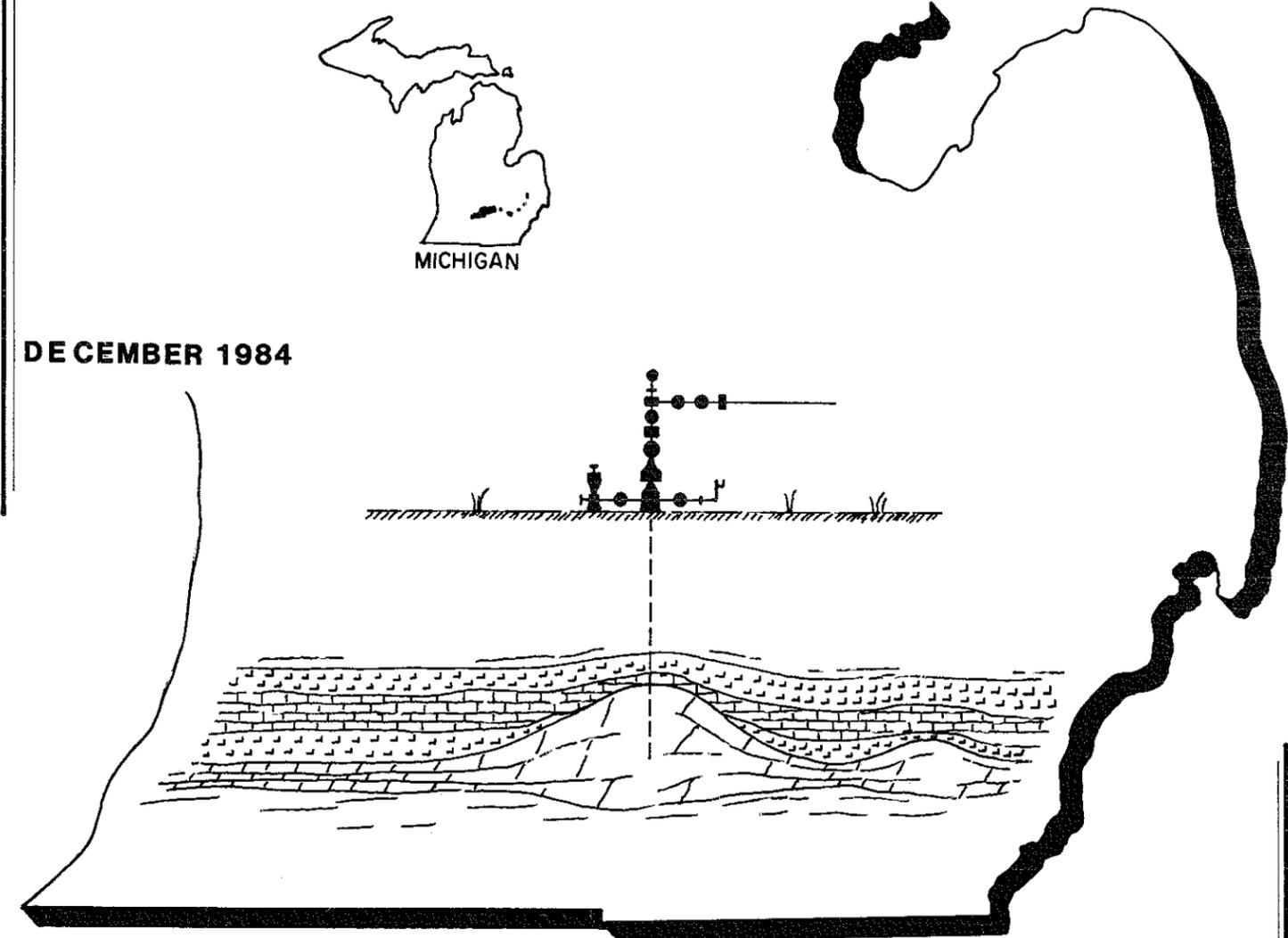


SCHMIDT

SUBSURFACE PRESSURE REPORT ON THE SOUTHERN MICHIGAN REEF DEVELOPMENT



DECEMBER 1984



PRODUCTION AND PRORATION UNIT
GEOLOGICAL SURVEY DIVISION
DEPARTMENT OF NATURAL RESOURCES

STATE OF MICHIGAN
Hon. James J. Blanchard, Governor

DEPARTMENT OF NATURAL RESOURCES
Dr. Ronald O. Skoog, Director

GEOLOGICAL SURVEY DIVISION
R. Thomas Segall, State Geologist and Chief

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The Subsurface Pressure Report on the Southern Michigan Reef Development includes the results of all bottom hole pressure tests that were made available to the Production and Proration Unit either at the discretion of the companies or at the request of the State. Bottom-hole pressure tests are not required for wells that are on artificial lift. The shaded area of the cover indicates those areas in which the Southern Michigan Salina-Niagaran wells are located. Wells are located in their respective fields based upon the best information available.

The subsurface report contains two sections.

Section I summarizes field performance in terms of barrels oil production per pound of pressure drop. Reported in this section for a number of fields are cumulative oil production histories, most recent field performances, and life of the field performances.

Section II lists bottom hole pressure test results for reported wells. Included in this section for a number of fields are graphs which illustrate cumulative oil production versus bottom hole pressures for the life of the field. On these cumulative oil production graphs above the respective bottom hole pressure test is the Sales G.O.R. for the month prior to the bottom hole pressure test.

Compiler: Gunther Schmidt

Lansing, Michigan
December, 1984

SECTION I

*FIELD PERFORMANCE AS A FUNCTION OF BARRELS
OIL PRODUCTION PER POUND OF PRESSURE DROP*

RELATED RESERVOIR PRESSURE & PRODUCTION PERFORMANCE
DECEMBER 1984

FIELD	FROM FIRST B. H. P. TEST			CURRENT DATA				
	DATES	PRESSURE DROP PSIC	INTERVAL OIL PRODUCTION IN BBLs	BARRELS PER POUND DROP	DATES	PRESSURE DROP PSIC	INTERVAL OIL PRODUCTION IN BBLs	BARRELS PER POUND DROP
CALHOUN County								
CLARENCE 27-1S-4W	10/79-08/00/83	-345	45,000	130	08/00/81-08/00/83	-300	22,900	76
CLARENCE 34-1S-4W	08/79-04/00/83	-182	41,800	230	08/00/81-04/00/83	-182	41,800	230
CONVIS 08A-1S-6W	01/76-05/00/83	-263	846,100	3,217	03/00/81-05/00/83	-39	281,100	7208
CONVIS 18-1S-6W EAST	03/75-02/00/77	-51	146,000	2,863	11/00/76-02/00/77	-13	32,700	2515
CONVIS 18-1S-6W WEST	07/75-02/00/77	-50	117,000	2,340	07/00/76-02/00/77	-10	51,300	5130
CONVIS 30-1S-6W	10/75-12/00/76	-86	60,000	698	08/00/76-12/00/76	-6	13,800	2320
LEE 02C-1S-5W	06/75-04/00/79	-784	49,900	64	08/00/76-04/00/79	-80	9,200	115
LEE 10A-1S-5W	05/74-03/00/80	-366	234,900	642	05/00/79-03/00/80	-74	21,700	293
LEE 11A-1S-5W	07/77-03/00/80	-997	30,400	30	05/00/79-03/00/80	-312	13,000	42
LEE 13-1S-5W	05/73-07/00/76	-157	141,300	900	01/00/76-07/00/76	-49	30,300	618
LEE 14-1S-5W	07/74-12/00/76	-166	123,300	743	07/00/76-12/00/76	-30	22,400	747
LEE 15B-1S-5W	03/77-08/00/80	-131	66,400	507	03/00/77-08/00/80	-131	66,400	507
PENNFIELD 21-1S-7W	07/75-06/00/79	-279	48,700	175	07/00/75-06/00/79	-279	48,700	175
PENNFIELD 29-1S-7W	09/73-09/00/75	-323	61,700	191	09/00/73-09/00/75	-323	61,700	191
EATON County								
BROOKFIELD 02-1N-4W	08/79-01/00/82	-417	125,500	301	08/00/79-01/00/82	-417	125,500	301
EATON RAPIDS 16-2N-3W	09/80-04/00/84	-333	85,800	258	09/00/83-04/00/84	-64	16,400	256
EATON RAPIDS 17B-2N-3W	01/80-04/00/83	-1376	31,600	23	01/00/80-04/00/83	-1376	31,600	23
EATON RAPIDS 20-2N-3W NORTH	02/75-04/00/84	-577	317,600	550	02/00/84-04/00/84	-67	4,400	66
EATON RAPIDS 20-2N-3W SOUTH	08/75-07/00/82	-466	28,500	61	07/00/81-07/00/82	-86	2,200	26
EATON RAPIDS 20-2S-3W SOUTHWEST	12/74-08/00/80	-549	76,500	139	10/00/79-08/00/80	-84	10,100	120
EATON RAPIDS 28-2N-3W	05/74-05/00/80	-321	33,600	105	11/00/76-05/00/80	-30	19,300	643
EATON RAPIDS 32-2N-3W	05/76-07/00/82	-475	208,000	438	07/00/81-07/00/82	-117	18,000	154
EATON RAPIDS 35-2N-3W NORTHEAST	10/72-10/00/83	-883	174,600	210	05/00/76-10/00/83	-341	131,100	454
EATON RAPIDS 35-2N-3W SOUTHWEST	09/77-01/00/83	-1333	111,500	84	02/00/79-01/00/83	-970	93,600	97
HAMLIN 01-1N-3W	10/78-04/00/84	-1028	62,700	61	10/00/82-04/00/84	-194	18,000	93
HAMLIN 02-1N-3W	05/75-08/00/78	-548	42,200	77	08/00/77-08/00/78	-216	17,900	83
HAMLIN 05-1N-3W	05/76-01/00/79	-277	325,000	1173	05/00/78-01/00/79	-82	95,400	1163
HAMLIN 06-1N-3W	10/80-04/00/83	-473	150,200	318	10/00/80-04/00/83	-473	150,200	318
HAMLIN 08-1N-3W	12/72-05/00/78	-1321	325,700	247	08/00/76-05/00/78	-463	89,000	192
HAMLIN 08A-1N-3W	01/75-05/00/83	-1464	28,800	20	04/00/79-05/00/83	-1041	13,200	13
HAMLIN 08B-1N-3W	10/80-04/00/83	-1180	93,700	79	10/00/80-04/00/83	-1080	93,700	79
HAMLIN 10-1N-3W	02/74-08/00/78	-729	104,400	143	07/00/77-08/00/78	-104	19,200	185
HAMLIN 13-1N-3W	03/77-08/00/82	-428	25,500	60	03/00/80-08/00/82	-232	11,800	51
INGHAM County								
INGHAM 12-2N-1E	07/73-08/00/75	-690	169,100	245	12/00/74-08/00/75	-193	110,400	572
INGHAM 25-2N-1E	07/73-07/00/76	-732	214,200	293	01/00/75-07/00/76	-158	162,700	1030
ONONDAGA 17-1N-2W	06/73-02/00/75	-651	102,700	158	01/00/74-02/00/75	-405	78,700	194
ONONDAGA 18-1N-2W	03/78-08/00/79	-491	58,500	119	08/00/78-08/00/79	-417	52,000	125
VEVAY 16-2N-1W	10/70-04/00/78	-397	181,200	456	07/00/76-04/00/78	-82	22,600	276
VEVAY 17-2N-1W	11/72-10/00/81	-386	278,100	720	08/00/80-10/00/81	-40	35,900	895
VEVAY 19B-2N-1W	05/72-04/00/83	-1884	390,700	207	05/00/78-04/00/83	-765	123,500	161
VEVAY 19C-2N-1W	05/72-04/00/83	-464	94,900	205	07/00/78-04/00/83	-280	40,400	144
WHITE OAK 15-2N-2E	02/80-05/00/82	-393	21,500	55	03/00/81-05/00/82	-138	17,800	129
OAKLAND County								
LYON 08-1N-7E	08/80-04/00/83	-463	107,800	233	08/00/80-04/00/83	-463	107,800	233
LYON 17-1N-7E	11/80-04/00/83	-572	112,000	196	11/00/80-04/00/83	-572	112,000	196

SECTION II

BOTTOM-HOLE PRESSURE TEST RESULTS FOR REPORTED WELLS

CALHOUN

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME CLARENCE 19a-1S-4W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-77 VIRGIN PRESSURE 1360 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2156 FEET	DATE OF PREV. PRESSURE	PREVIOUS PRESS			
DeBruyn #1-19	8-77	N.A.	3100	1360	.360	1360			INITIAL TEST	1231	1238
Alexander #1-19	5-78	N.A.	3101	1153	MAY 25 1978 027	1153			NOT USED IN CALCULATIONS	1059	1080
According to MRC testimony, this well is located in a separate reservoir.											
Cowles #1-25	5-78	N.A.	3107	1278	SEPTEMBER 19, 1978 127	1278	1360	8-30-77	- 82	1133	1160
DeBruyn #1-19	8-77	N.A.	3100	1163	NOVEMBER 20, 1978 03	1163				1061	1072
Keiper #1-19	3-78	N.A.	3089	1165	03	1165				1063	1070
Cowles #1-25	5-78	NA	3107	879	AVERAGE NOVEMBER 2, 1979 032	879	1278	9-19-78	- 113	801	812
Irving #1-25	2-80	N.A.	3116	836	FEBRUARY 10, 1980 .486	835	879	11-2-79	- 44	690	765

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME CLARENCE 19b-1S-4W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-78 VIRGIN PRESSURE 1348 NO. PRODUCING WELLS

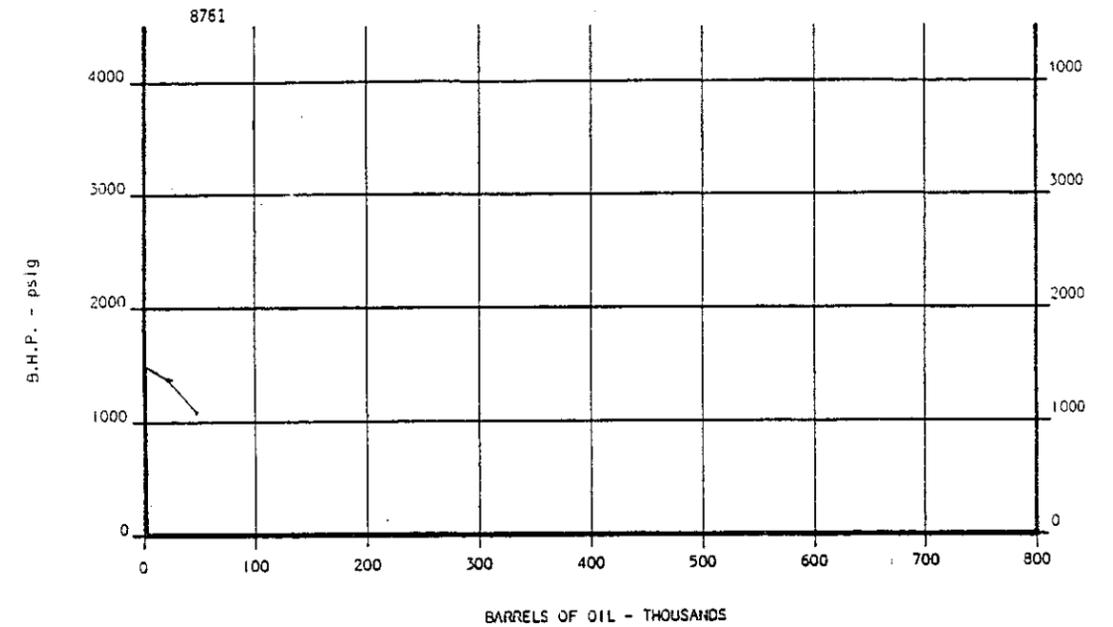
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. # 2156 FEET	DATE OF PREV. PRESSURE	PREVIOUS PRESS			
Miller Draugher #1-30	12-78	75.3	3120	1349	JANUARY 8, 1979 .22	1348			INITIAL TEST	1213	1219

STATE OF MICHIGAN

FIELD NAME CLARENCE 22-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 7-82 VIRGIN PRESSURE 1377 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHOT-IN SURFACE PRESSURES	
						P.S.I. # 2236	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Genei-Heisler#1-22	7-82	NA	3190	1377	DECEMBER 5, 1982 .25	1982 1377	INITIAL	TEST		1236	905

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 Clarence 27-1S-4W



STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME CLARENCE 27-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 10-79 VIRGIN PRESSURE 1427 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHOT-IN SURFACE PRESSURES	
						P.S.I. # 2239	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Schmidt #1-27	10-79	47	3195	1427	OCTOBER 1, 1979 .317	1427	INITIAL	TEST		794	
Schmidt #1-27	10-79	NA	3195	1412	FEBRUARY 7, 1980 .27	1412	1427	10-1-79	-15	1024	0
Schmidt #1-27	10-79	NA	3195	1382	AUGUST 7, 1981 .054	1382	1412	10-1-79	-30	1251	1256
Schmidt #1-27	10-79	30	3195	1082	APRIL 26, 1983 .024	1082	1382	8-7-81	-300	835	850

STATE OF MICHIGAN

FIELD NAME CLARENCE 27A-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 8-81 VIRGIN PRESSURE 1389 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHOT-IN SURFACE PRESSURES	
						P.S.I. # 2238	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Guisbert #3-27	8-81	NA	3175	1389	31 AUGUST 1981 .326	1389	INITIAL	TEST		761	
Rutz #6-34	6-82	76	3172	1084	APRIL 27, 1983 .354	1085					949
Guisbert #3-27	8-81	75	3175	1078	.130	1078	1389	8-31-81	-307		975
						AVG	1082				

STATE OF MICHIGAN

FIELD NAME CLARENCE 29-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 5-82 VIRGIN PRESSURE 1209 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2264	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Simmons 4-29A	5-82	N A	3224 TVD	1209	MAY 20, 1982 .037	1209	INITIAL	TEST		1099	880

STATE OF MICHIGAN

FIELD NAME CLARENCE 32-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 7-82 VIRGIN PRESSURE 1280 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2135	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Childs 2-32	7-82	12	3078	1280	JUNE 16, 1982 .10*	1280	INITIAL	TEST		1005	

*Assumed

STATE OF MICHIGAN

FIELD NAME CLARENCE 29A-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 10-82 VIRGIN PRESSURE 1408 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2203	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Frederick #7-29	10-82	--	3152	1408	JANUARY 11, 1983 .044	1408	INITIAL	TEST		1273	1214

STATE OF MICHIGAN

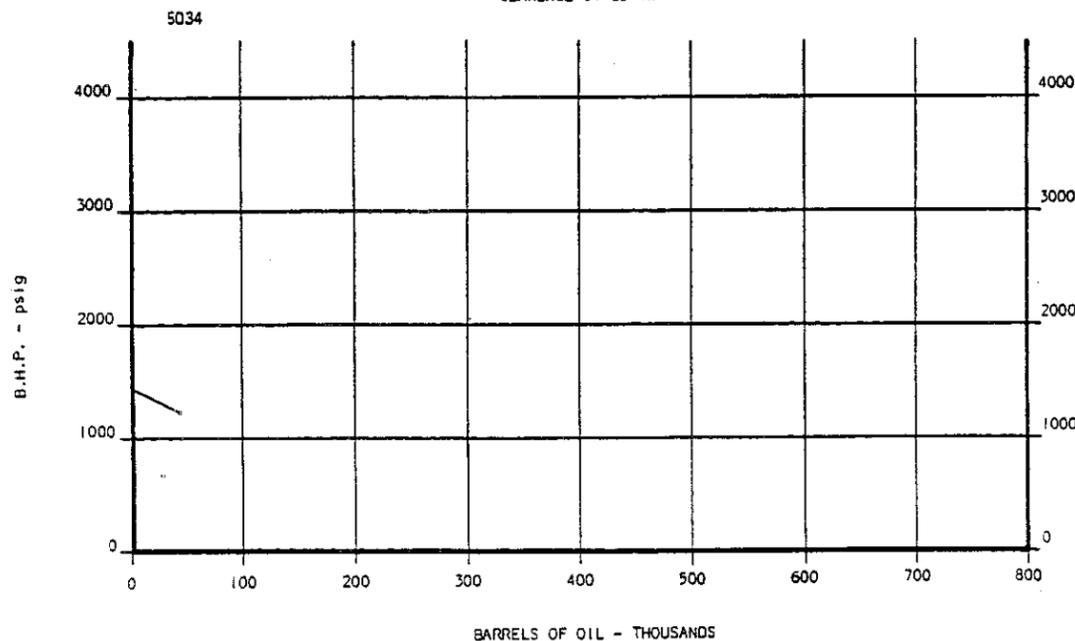
FIELD NAME CLARENCE 33-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 8-81 VIRGIN PRESSURE 1389 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2165	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Lake 2-33	8-81	40.8	3148	1389	SEPTEMBER 2, 1981 .128	1389	INITIAL	TEST		1247	500

FIELD NAME CLARENCE 34-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 8-81 VIRGIN PRESSURE 1423 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2229	FEET	DATE OF PREV. PRESSURE		
Keck-Bunde	1-34 8-81	N.A.	3186	1423	AUGUST 29, 1981 380	1423	INITIAL TEST		580	
Keck-Bunde #1-34	8-81	78	3186	1241	APRIL 27, 1983 .052	1241			1125	
Heisler-Sine #2-34	9-81	77	3185	1242	.102 AVG 1241	1241	1423	8-29-81	-182	

BOTTOM-HOLE PRESSURE DROP VERSUS
 RESERVOIR CUMULATIVE OIL PRODUCTION
 CLARENCE 34-1S-4W



FIELD NAME CLARENCE 35-1S-4W COUNTY CALHOUN TOWNSHIP CLARENCE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 8-81 VIRGIN PRESSURE 1393 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2132	FEET	DATE OF PREV. PRESSURE		
Schmidt #1-35	8-81	39	3089	1393	AUGUST 31, 1981 .50*	1393	INITIAL TEST		458	425
Schmidt #3-35	7-82	16 6	3194	1387	JUNE 2, 1982 .917	1318	1393	8-31-81	-75	472 870

*Assumed

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

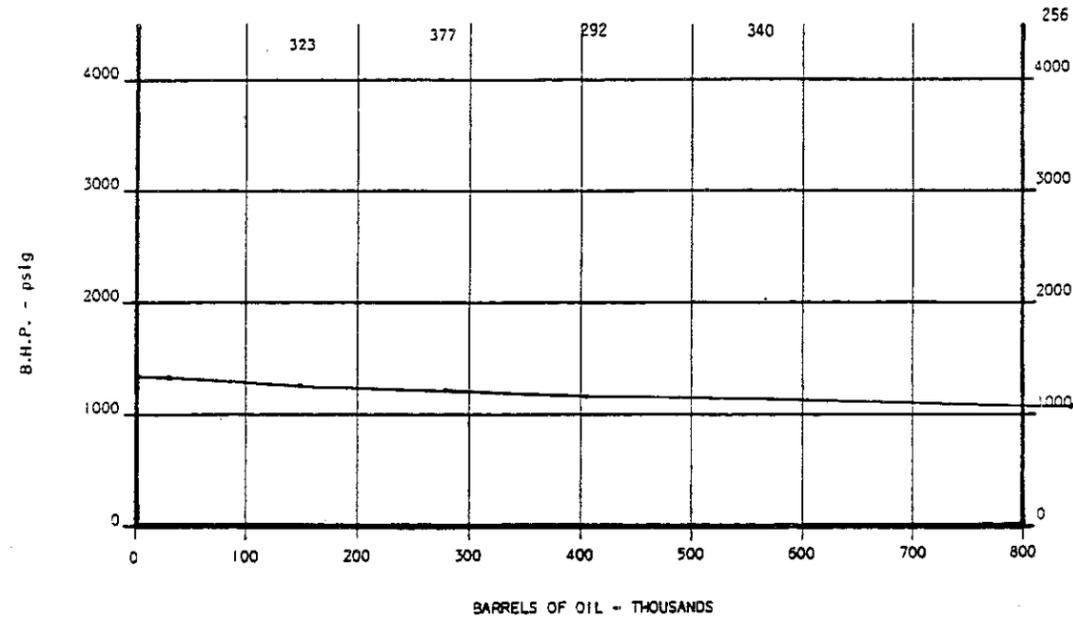
FIELD NAME CONVIS 8A-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-75 VIRGIN PRESSURE 1380 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2179	FEET	DATE OF PREV. PRESSURE		
Ainslie #1-8	2-76	N.A.	3065	1380	JANUARY 15, 1976 .356	1380	Initial Test		701	717
Ainslie #1-8	2-76	N.A.	3065	1329	MARCH 19, 1976 .356	1329	1380	5-15-76	- 51	389 604
Ainslie #1-8	2-76	N.A.	3065	1326	OCTOBER 5, 1976 .356	1326	1329	3-19-76	- 3	463 923
Ainslie #2-8	2-76	N.A.	3047	1251	SEPTEMBER 27, 1977 .323	1250	1326	10-5-76	- 76	505 1157
Ainslie #1-8	2-76	43	3065	1216	SEPTEMBER 30, 1978 .394	1216	1250	9-27-77	- 34	430 1057
Ainslie #2-8	2-76	N.A.	3047	1182	SEPTEMBER 27, 1979 .411	1181	1216	9-30-78	- 35	165
Ainslie #1-8	2-76	N.A.	3025	1147	MARCH 24, 1981 .30*	1159				103 887
Ainslie #2-8	2-76	N.A.	3047	1154	.30*	1152				285 190
					Average	1156	1181	9-27-79	- 26	
Ainslie #1-8	2-76	NA	3030	1100	MAY 9, 1983 .488	1117	1156	3-24-81	-39	188 495

*Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

CONVIS 8A-1S-6W



STATE OF MICHIGAN

FIELD NAME CONVIS 9-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 4-81 VIRGIN PRESSURE 1245 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2113	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Barnes #1-9	4-81	--	3028	1245	MAY 26, 1981 .355	1245		INITIAL TEST		285	1010

STATE OF MICHIGAN

FIELD NAME CONVIS 12-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 10-82 VIRGIN PRESSURE 1394 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2252	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Walters #1-12	10-82	66	3174	1394	OCTOBER 19, 1982 .076	1394		INITIAL TEST		1265	1261

STATE OF MICHIGAN

FIELD NAME CONVIS 17-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS _____
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 8-82 VIRGIN PRESSURE 1119 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 1998	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Bass #1-17	8-82	18	2885 TVD	1119	APRIL 15, 1983 .444	1119		INITIAL REPORTED TEST		291	140

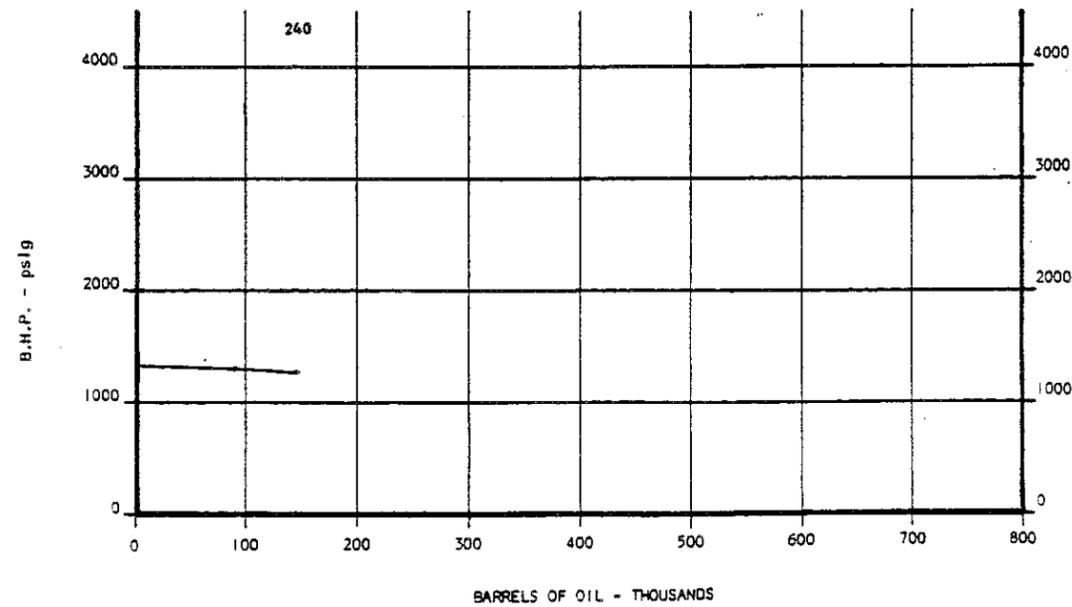
STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME CONVIS 18-1S-6W (East) COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-4-75 VIRGIN PRESSURE 1319 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. #	2054	FEET		TUB.	CSG.
Alvin Smith #1	3-75	87	2941	1319	MARCH 17, 1975 .3634	1319	Initial Test		484	488	
Miller Unit #1	7-75	71	2927	1313	OCTOBER 13, 1975 .385	1307	1319	3-17-75	- 12	391	1110
Alvin Smith #1	3-75	72	2964	1294	JULY 20, 1976 .35	1286	1307	10-13-75	- 21	395	224
Alvin Smith #1	3-75	72	2941	1281	NOVEMBER 1, 1976 .344	1281	1286	7-20-76	- 5	420	315
Miller Unit #1	7-75	60	2927	1274	FEBRUARY 7, 1977 .551	1266					
Alvin Smith #1	3-75	60	2941	1270	.362	1270				249	
					Average	1268	1281	11-1-76	- 13		

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
CONVIS 18-1S-6W (EAST)



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

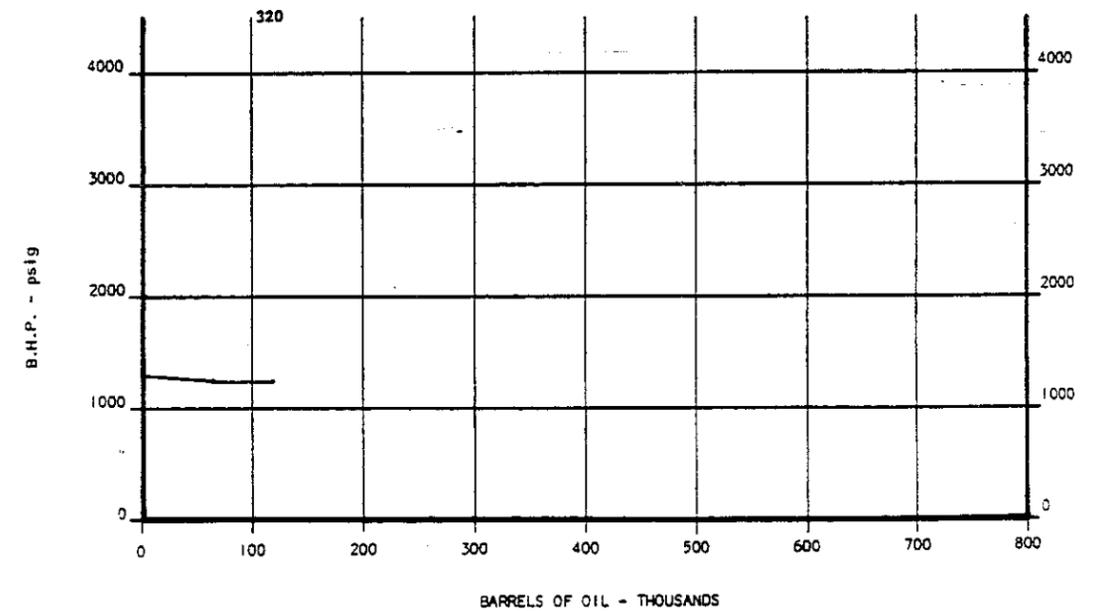
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME CONVIS 18-1S-6W (West) COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-75 VIRGIN PRESSURE 1285* 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. #	2054	FEET		TUB.	CSG.
Collins Unit #1	12-75	48+	2892	1255	OCTOBER 11, 1975 .38	1270	(COLLINS)			600	1145
Donald Tuck Unit	8-75	69	2881	1254	.365	1263				388	579
Lindberg Unit #1	7-75	69	2922	1283	.378	1279				456	1068
					Average	1270	1285*	7-75	- 15		
Lindberg Unit #1	7-75	72	2922	1250	JULY 6, 1976 .466	1245	1270	10-11-75	- 25	345	1103
Lindberg Unit #1	7-75	72	2922	1232	NOVEMBER 1, 1976 .524	1226	1245	7-7-76	- 19	0	0
Lindberg Unit #1	7-75	60	2922	1241	FEBRUARY 7, 1977 .56	1235	1226	11-1-76	- 9	16	

* Estimated. Approximately 9,200 bbls. production at time of these BHP tests.

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
CONVIS 18-1S-6W (WEST)



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME CONVIS 19-15-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-1-76 VIRGIN PRESSURE 1280* 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. # 1966	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Calender Christophel Unit #1 2-77	120	2888	1199	.385	1199	1280*	8-76	- 81	481	999	
* Estimate. Approximately 5,500 bbls. production at time of this BHP test.											

STATE OF MICHIGAN

FIELD NAME CONVIS 21-15-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-80 VIRGIN PRESSURE 1212 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. # 1937	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Fairchild Hugger #1-21	6-80	N.A.	2889	1212	373	1212	INITIAL TEST		423		
JUNE 14, 1980											

STATE OF MICHIGAN

FIELD NAME CONVIS 20-15-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE 4-81 VIRGIN PRESSURE 1200* 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. # 1945	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Houk #1-20A	4-81	18	2854 TVD	997	.412	997	INITIAL REPORTED TEST		283	654	
* = Estimated											

STATE OF MICHIGAN

FIELD NAME CONVIS 23-15-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG DISCOVERY DATE VIRGIN PRESSURE 1324 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. # 2132	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Weers #1-14	-82	NA	3070TVD	1304	.545	1304	INITIAL TEST		987	1182	
Weers #1-14	-82	70.5	3070TVD	1296	.500*	1296	INITIAL TEST		846	1175	
Lindholm #1-23A	9-82	NA	3031TVD	1302	.546	1324	INITIAL TEST		514	878	
Lindholm #1-23A	9-82	NA	3024TVD	1271	.536	1296	1324	7-8-82	-28	979	1199
* = Assumed											

STATE OF MICHIGAN

FIELD NAME CONVIS 23A-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE _____ VIRGIN PRESSURE 1270 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. @ 2022 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
McCloud #1-32	7-82	46	2970	1270	JULY 31, 1982 .050	1270	INITIAL TEST		1143	1140	
McCloud #2-32	11-82	NA	3060	1269	DECEMBER 14, 1982 .043	1265	INITIAL TEST		1144	1150	

STATE OF MICHIGAN

FIELD NAME CONVIS 29-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-80 VIRGIN PRESSURE 1217 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. @ 1942 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Albright Boehmar 2-29	6-80	46	2915	1217	JUNE 7, 1980 .373	1217	INITIAL TEST		384	1900	

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

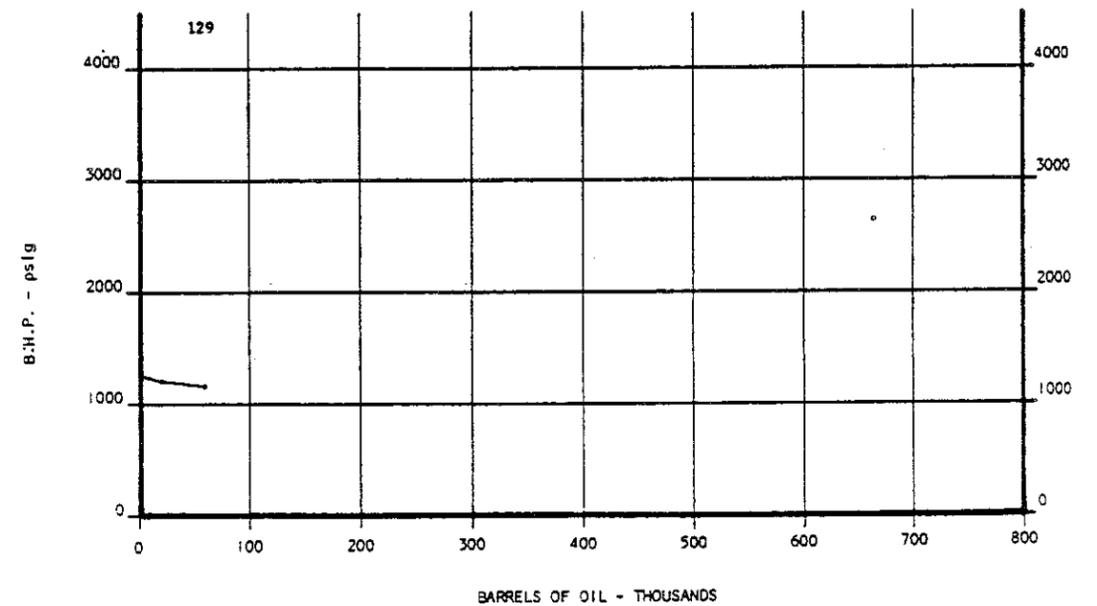
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME CONVIS 30-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-75 VIRGIN PRESSURE 1248 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. @ 1938 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Smith Bicknell Unit #1 8-75	72	2835	1242	OCTOBER 5, 1975 .58	1248	INITIAL TEST		315	371		
White Collins #1 12-75	85	2855	1216	MARCH 29, 1976 .368	1216*	INITIAL REPORTED TEST		366	705		
Howard Unit #1 4-76	11 Days	2866	1217	MAY 11, 1976 .533	1211	1248	3-29-76	+ 37	371	232	
Merriman Unit #1 6-76	N.A.	2865	1171	AUGUST 31, 1976 .369	1168	1211	3-11-76	- 43	276	177	
Merriman Unit #1 6-76	N.A.	2865	1167	DECEMBER 2, 1976 .561	1162	1168	8-31-76	- 6	102	140	

BOTTOM-HOLE PRESSURE DROP VERSUS
 RESERVOIR CUMULATIVE OIL PRODUCTION

CONVIS 30-1S-6W



STATE OF MICHIGAN

FIELD NAME CONVIS 30A-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-81 VIRGIN PRESSURE 1280* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 1938	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Smith Farm #1-30	1-81	73	2835	1176	JANUARY 31, 1981 .543	1981 1176	INITIAL	REPORTED TEST	80	576	

STATE OF MICHIGAN

FIELD NAME CONVIS 32-1S-6W COUNTY CALHOUN TOWNSHIP CONVIS DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-82 VIRGIN PRESSURE 1229 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 1907	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Mull #1-32	5-82	N.A.	2855	1229	MAY 13, 1982 .30*	1229	*INITIAL	TEST		340	

*Assumed

STATE OF MICHIGAN

FIELD NAME LEE 1-IS-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-81 VIRGIN PRESSURE 1174 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2323	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Martin-Ross #1A-1	6-81	102.7	3256	1174	OCTOBER 26, 1981 .242	1174	INITIAL	TEST		1015	128
Frost #1-1	1-82	72	3390	1091	JANUARY 24, 1982 .046	1085	1174	10-26-81	-89	971	87

STATE OF MICHIGAN

FIELD NAME LEE 2-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-73 VIRGIN PRESSURE 1500* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2370	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Harris #1-2	8-73	72	3321	557	SEPTEMBER 12, 1978 .10*	557	1500	8-73	- 943	412	502

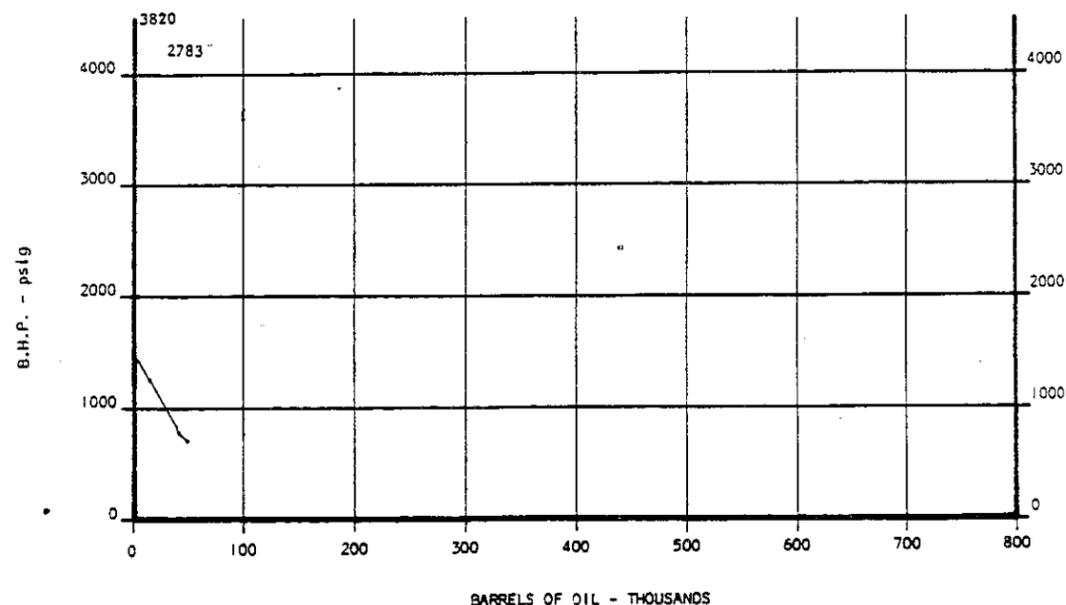
*Estimated

STATE OF MICHIGAN

FIELD NAME LEE 2A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 5-74 VIRGIN PRESSURE 1479 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. # 2326	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Mott #2-2	5-74	3	3246	1479	JUNE 5, 1974 .047	1479	INITIAL TEST		1334	1334	

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 LEE 2C-1S-5W



STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 2C-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 2-75 VIRGIN PRESSURE 1500 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. # 2386	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Winegar-Barlond #1-2	5-75	41.5	3323	1500	JUNE 5, 1975 N.A.*	1500	INITIAL TEST		691	1189	
Winegar-Barlond #1-2	5-75	N.A.	3310	1390	JULY 10, 1976 .346	1394	1500	6-6-75	- 106	526 1239	
Winegar-Barlond #1-2	5-75	N.A.	3310	1229	FEBRUARY 8, 1977 .345	1231	1394	7-10-76	- 163	911 1105	
Winegar Barlond #1-2	5-75	70	3310	792	JUNE 5, 1978 .30**	796	1231	2-8-77	- 435	531 701	
Winegar Barlond #1-2	5-75	2.3	3310	712	APRIL 30, 1979 .337	716	796	6-5-78	- 80		

** Estimated
 * Build-up test

STATE OF MICHIGAN

FIELD NAME LEE 3-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 7-72 VIRGIN PRESSURE 1510 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. # 2280	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
FULLER #1	7-72	34 da	3242	1498	AUGUST 15, 1972 .050	1498	INITIAL TEST				
WEBBER #1	9-72	163	3415	1511	MAY 10, 1973 .298	1465	INITIAL TEST		1233	149	
MOTT # 1	5-73	429	3406	1546	MAY 22, 1983 .211	1510	INITIAL TEST		1373	1373	
Schrontz #2-34	9-74	48	3398	1507	JANUARY 18-24, 1975 .50*	1430			1042	1368	
Webber #1	7-72	142	3415	1485	.50*	1409			1176	255	
Fuller #1	7-72	--	3300	1530	.52	1500					
Fuller #1	7-72	NA	3320	566	AVG .426	1446	1510	5-22-73	-64		
Fuller #1	7-72	NA	3254	377	NOVEMBER 1, 1977 .495	566	1446	1-24-75	-880	509 514	
Fuller #1	7-72	NA	3254	377	APRIL 22, 1978 .426	405	566	4-22-78	-161	308 356	
Webber #1	9-72	N A	3300	791	NOVEMBER 30, 1978 .18	798	NOT USED IN CALCULATIONS			700	
Fuller #1	7-72	NA	3254	285	NOVEMBER 5, 1979 .216	299	405	4-22-78	-106	246	
Fuller #1-3	7-72	NA	3262	278	APRIL 11, 1983 .008	278	299	11-6-79	-21	255 264	

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 3A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 1-75 VIRGIN PRESSURE 1547 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. # 2386	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Trendwell #1(MGU)	1-75	71	3321	1547	DECEMBER 26, 1974 .10*	1547	INITIAL TEST		1387	1385	
Dailey #1-4	5-75	NA	3371	345	OCTOBER 28, 1977 .031	345	1547	12-26-74	-1202	315	320
Dailey #1-4	5-75	NA	3364	262	APRIL 21, 1978 .275	266				218	243
Trendwell #1(MGU)	1-75	NA	3326	256	AVERAGE .165	263	345	10-28-77	-80	210	244

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 3D-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 11-82 VIRGIN PRESSURE 1326 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. # 2430	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Stevens #1-3	11-82	NA	3422	1326	FEBRUARY 11, 1983 .540	1326	INITIAL TEST			1090	1154
Stevens #1-3	11-82	NA	3421	903	SEPTEMBER 12, 1983 .052	903	1326	2-11-83	-423	813	800

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 3C-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 5-82 VIRGIN PRESSURE 1100 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. # 2510	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Treadwell #1-3 (Don Yohe, Ent.)	5-82	69	3404	1100	JANUARY 20, 1983 .052	1100	INITIAL	REPORTED TEST		991	956

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 6-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 10-83 VIRGIN PRESSURE 1471 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. # 2460	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Sebring-Murphy#1-1	10-83	71	3371	1471	NOVEMBER 7, 1983 .54	1471	INITIAL TEST			1179	1307

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 7-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE VIRGIN PRESSURE 1347 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. # 2244	FEET	DATE OF PREV. PRESSURE		
Pierce #1-7	9-84	NA	3200	1347	SEPTEMBER 25, 1984 .154	1347	INITIAL TEST		1198 1228	

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 8A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 1-75 VIRGIN PRESSURE 1471 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. # 2214	FEET	DATE OF PREV. PRESSURE		
Britton Unit #1	11-75	86	3164TVD	1471	DECEMBER .046	15, 1975 1471	INITIAL TEST		1324 1318	

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 8-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 5-74 VIRGIN PRESSURE 1350* 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. # 2215	FEET	DATE OF PREV. PRESSURE		
Brunson #1	5-74	NA	3164	828	NOVEMBER 1, 1977 .348	828	1350	5-74	-522	747 759
Brunson #1	5-74	NA	3164	656	APRIL 22, 1978 .142	656	828	11-1-77	-172	592 600
Brunson #1	5-74	NA	3137	473	NOVEMBER 6, 1979 .355	483	656	4-22-78	-173	341

* = Estimated

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 9-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-71 VIRGIN PRESSURE 1350* 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. # 2257	FEET	DATE OF PREV. PRESSURE		
Velliquette Nail #1	11-71	N.A.	3200	1073	APRIL 21, 1978 .556	1073	1350	11-71	-277	739
Velliquette Nail #1-9A	8-80	N.A.	3125TVD	1132	AUGUST 14, 1980 .172	1145	NOT USED IN CALCULATIONS			990 1068

* = Estimated

STATE OF MICHIGAN

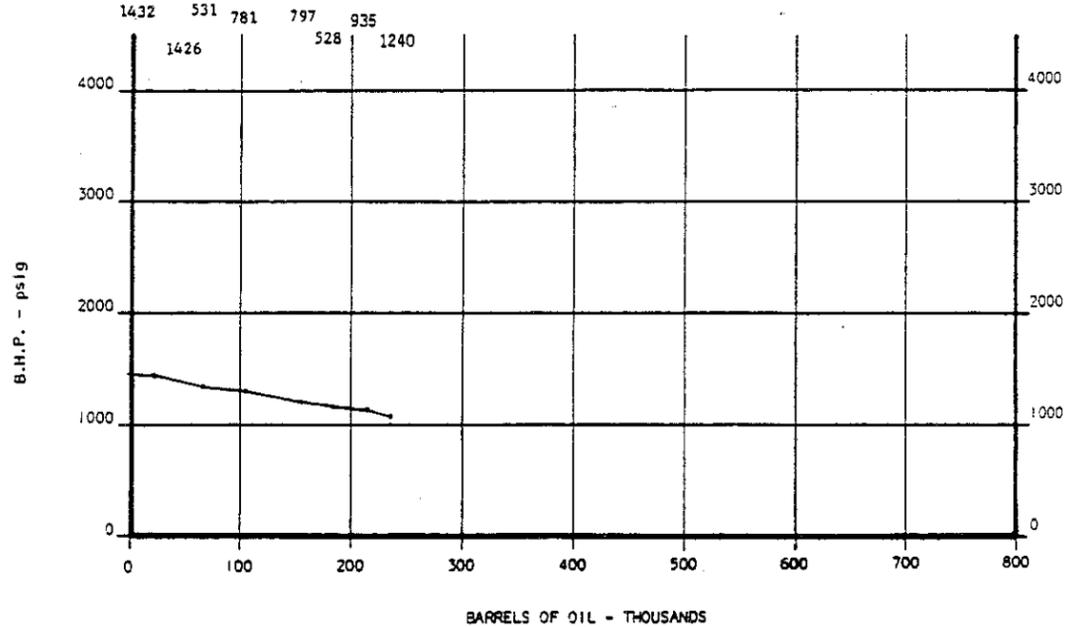
BOTTOM-HOLE PRESSURE TESTS -

FIELD NAME LEE 10-15-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 1-73 VIRGIN PRESSURE 1350* 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. # 2264	PREVIOUS PRESS	DATE OF PREV PRESSURE		TUB. CSG.	TUB. CSG.
Koyl #2-10	1-73	NA	3207	1280	OCTOBER 31, 1977 .07	1280	1350	1-73	-70	404	1149
Koyl #2-10	1-73	NA	3171	1198	APRIL 21, 1978 .271	1208	1280	10-31-77	-72		340
Koyl #2-10	1-73	NA	3171	1177	OCTOBER 2, 1980 .453	1191	1208	4-21-78	-17	0	

* = Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 LEE 10a-15-5W



STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 10a-15-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 4-26-74 VIRGIN PRESSURE 1432 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. # 2396	PREVIOUS PRESS	DATE OF PREV PRESSURE		TUB. CSG.	TUB. CSG.
Persons #2-10	4-74	72	3330	1432	MAY 17, 1974 .23	1432		INITIAL TEST		539	225
Persons #2-10	4-74	72	3330	1426	NOVEMBER 26, 1974 N.A.	1426	1432	5-17-74	-6	495	
Persons #2-10	4-74	96	3330	1351	SEPTEMBER 22, 1975 .33	1351	1426	11-26-74	-75	993	995
Persons #2-10	4-74	70	3330	1301	JUNE 7, 1976 .339	1301	1351	9-22-75	- 50	786	917
Persons 2-10	4-74	N.A.	3282	1227	FEBRUARY 8, 1977 .369	1245	1301	6-7-76	- 56	950	1019
Persons 2-10	4-74	N.A.	3330	1192	AUGUST 20, 1977 .358	1192	1240	2-2-77	- 48	529	541
Persons 2-10	4-74	70	3280	1165	JUNE 5, 1978 .30*	1180	1192	8-20-77	- 12	638	830
Persons #2-10	4-74	70	3310	1134	MAY 21, 1979 .324	1140	1165	6-5-78	- 25	751	855
Persons #2-10	4-74	N.A.	3310	1060	MARCH 3, 1980 .286	1066	1140	5-21-79	- 74	753	906

* Estimated

STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 10B-15-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 5-80 VIRGIN PRESSURE 1250 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. # 2316	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Brown #1-10	5-80	NA	3268	1250	AUGUST 14, 1980 .496	1250		INITIAL TEST		890	1140

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 10C-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 7-80 VIRGIN PRESSURE 1300* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2345	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Koyl #3-10	7-80	---	3309	1223	AUGUST 14, 1980 .217	1980 1223	INITIAL	TEST		1050	1120
* Estimated											

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 10D-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 5-81 VIRGIN PRESSURE 1351 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2363	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Persons #1-10	5-81	---	3345	1351	MAY 29, 1981 .150	1351	INITIAL	TEST		1211	
Persons #1-10	5-81	70	3238	1007	JANUARY 25, 1982 .005	1013	1351	5-29-81	-338	823	825

STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 10E-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 9-84 VIRGIN PRESSURE 1143 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2337	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Sine #1-10	9-84	---	3299	1143	OCTOBER 23, 1984 .052	1143	INITIAL	TEST		1033	1033

STATE OF MICHIGAN
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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 11-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 7-76 VIRGIN PRESSURE 1357 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2308	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Watson O'Dell #1-11	7-76	23	3242	1357	JULY 16, 1976 .05	1357	INITIAL	TEST		1276	1226
Watson O'Dell #1-11	7-76	72	3242	1171	JUNE 10, 1978 .05	1171	1357	7-16-76	- 186	1062	1063
Watson O'Dell #1-11	7-76	N.A.	3242	824	AUGUST 12, 1979 .025	824				748	748
Clark #1-11	10-78	N.A.	3284	825	.086	823	1171	6-10-78	- 347	748	709
					AVERAGE	824					

STATE OF MICHIGAN
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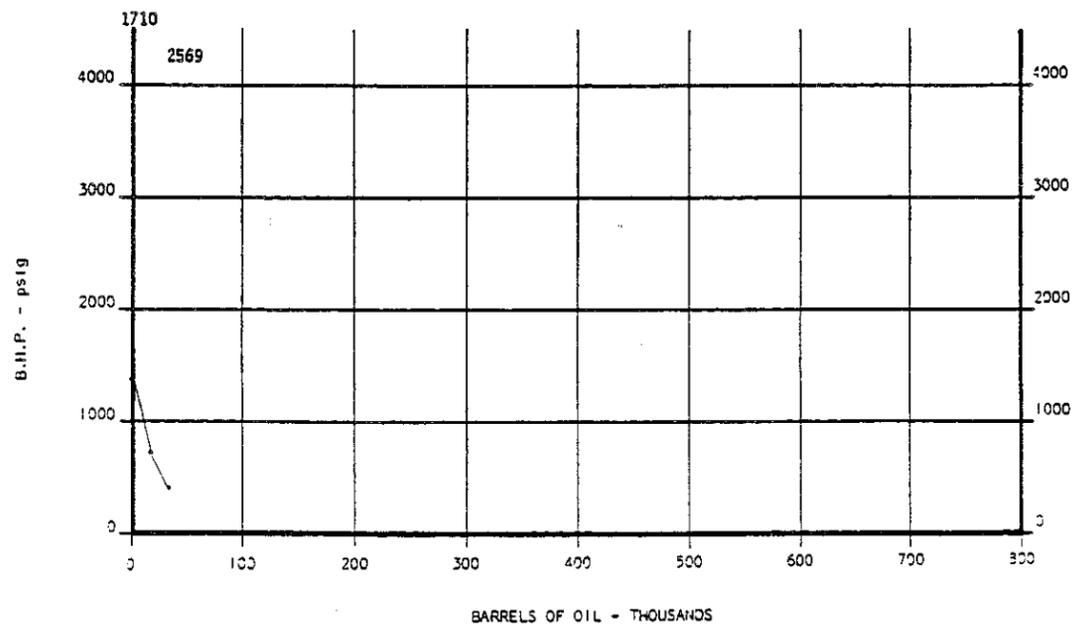
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 11A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-77 VIRGIN PRESSURE 1399 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. #	2211 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Key Hogle #2-11	12-77	47	3266	1399	JULY 30, 1977 .34	1399		Initial Test		463	1011
Key Hogle #2-11	12-77	71	3266	714	MAY 1, 1979 .011	714	1399	7-30-77	- 685	314	499
Key Hogle #2-11	12-77	66	3266	402	MARCH 6, 1980 .10*	402	714	5-1-79	- 312	414	420

*Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Lee 11a-1S-5W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 12-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-72 VIRGIN PRESSURE 1350* 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. #	2202 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Piepkow #1-12	12-72	N.A.	3189	1082	APRIL 19, 1978 .041	1082	1350	12-72	- 268	986	
Piepkow #2-12	7-79	N.A.	3211	1021	JULY 17, 1979 .398	1013	1082	4-19-78	- 69	866	940

* Estimated

STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 12A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 3-80 VIRGIN PRESSURE 1300* 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. #	2231 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Powers #1-12	3-80	NA	3215	1000	MARCH 4, 1980 .046	1000		INITIAL TEST		910	922

* Estimated

STATE OF MICHIGAN
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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

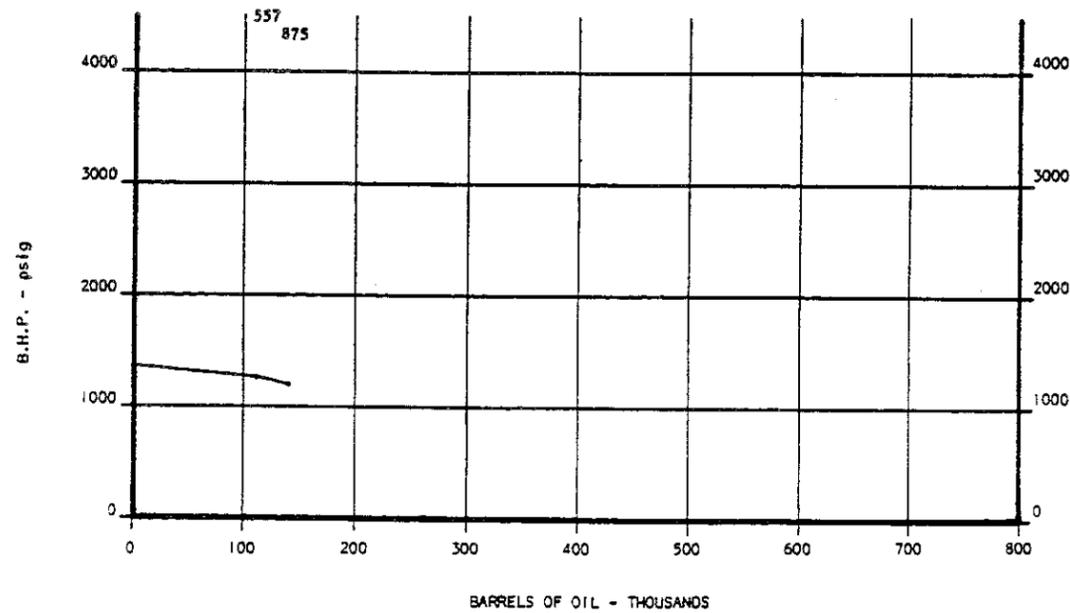
FIELD NAME LEE 13-1S-SW COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-3-73 VIRGIN PRESSURE 1350* NO. PRODUCING WELLS

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. # 2199	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Mymachod #1	5-73	N.A.	3165	1214	JANUARY 2, 1976	.341	1214			661	1070
Mymachod #5-13	11-73	N.A.	3170	501		.344	501	NOT USED IN CALCULATIONS		307	471
Mymachod #7-13	12-74	N.A.	3162	1270		.036	1270			1139	1144
					Average		1242	1350*	5-73	- 108	
Mymachod #1	5-73	33	3165	1169	JULY 1, 1976	.350	1169			566	993
Mymachod #5-13	11-73	30	3170	394		.36	394	NOT USED IN CALCULATIONS		33	304
Mymachod #7-13	12-74	32	3162	1217		.036	1217			1097	1106
					Average		1193	1242	1-2-76	- 49	
Mymachod #5-13	11-73	N.A.	3170	344	NOVEMBER 18, 1976	.471	344	NOT USED IN CALCULATIONS		0	0
Mymachod #1	5-73	N.A.	3165	1206	DECEMBER 1, 1976	.329	1206			673	834
Mymachod #7-13	12-74	N.A.	3162	1248		.032	1248			1124	1130
					Average		1227	1193	7-1-76	+ 34	
Mymachod #3	10-74	N.A.	3171	1250	NOVEMBER 6, 1979	.15	1253	NOT USED IN CALCULATIONS		1130	1143

* Estimate. Approximately 111,000 bbls. production at time of first reported BHP tests for wells in this field.

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

LEE 13-1S-SW



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 13A-1S-SW COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-73 VIRGIN PRESSURE 1350* 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. # 2182	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Faulkner #1-13A	7-78	11 Days	3149	870	JULY 2, 1977	.44	870	1350	10-73	- 450	
Clark #1	10-73	N.A.	3250	788	OCTOBER 28, 1977	.476	737	NOT USED IN CALCULATIONS			575 700
Faulkner #1-13A	7-78	N.A.	3129	865	APRIL 22, 1978	.01	865	870	7-2-77	- 5	791 791
Clark #1	10-73	N.A.	3250	708		.468	658	NOT USED IN CALCULATIONS			512 640

* Estimated

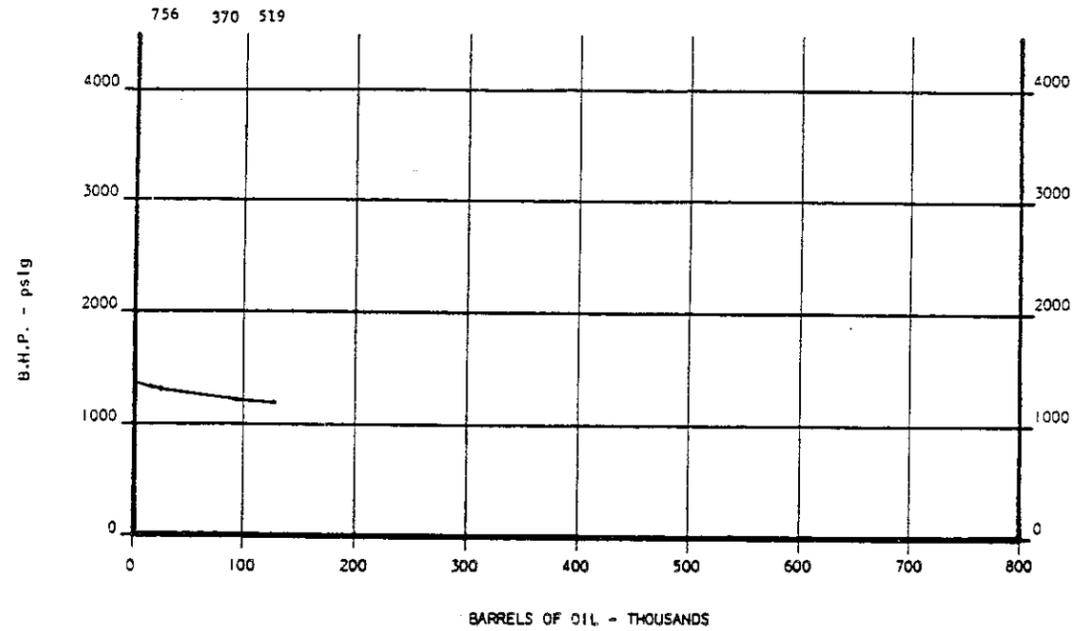
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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 14-1S-SW COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 6-1-74 VIRGIN PRESSURE 1357 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. # 2246	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Koyl #3	6-74	18 days	3200	1357	JULY 8, 1974	.39	1357				376 402
Koyl #3	6-74	N.A.	3200	1328	OCTOBER 21, 1974	.3285	1328	1357	7-8-74	- 29	641 623
Koyl #3	6-74	48 Hrs	3200	1297	FEBRUARY 27, 1975	.35	1297	1328	10-21-74	- 31	341 1097
Key #1-11	12-74	23	3207	1220	JANUARY 2, 1976	.504	1220				555 1021
Koyl #3-14	6-74	N.A.	3200	1227		.54	1227				226 926
					Average		1224	1297	2-27-75	- 73	
Key #1-11	12-74	24	3207	1221	JULY 1, 1976	.525	1221	1224	1-2-76	- 3	260 1090
Key #1-11	12-74	N.A.	3207	1188	DECEMBER 1, 1976	.547	1191	1221	7-1-76	- 30	653 975

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
LEE 14-15-5W



STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 14a-15-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 8-78 VIRGIN PRESSURE 1233 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. # 2185	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Mymachod-Nagera #1-14	8-78	NA	3137	1233	SEPTEMBER 3, 1978 .364	1233	INITIAL TEST		999	1082	
Mymachod-Nagera #1-14	8-78	NA	3137	1010	NOVEMBER 9, 1978 .369	1010	1233 9-3-78	-223	689	842	

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 15-15-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 1-74 VIRGIN PRESSURE 1350* 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. # 2196	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Koyl #4-15	1-74	NA	3120	562	FEBRUARY 2, 1977 .02	562	INITIAL		509		
Koyl #4-15	1-74	N.A.	3140	368	OCTOBER 31, 1977 .494	368	562 2-2-77	-194	329	327	
Koyl #4-15	1-74	N.A.	3107	264	APRIL 21, 1978 .006	264	368 10-31-77	-104	242	245	

* Estimated

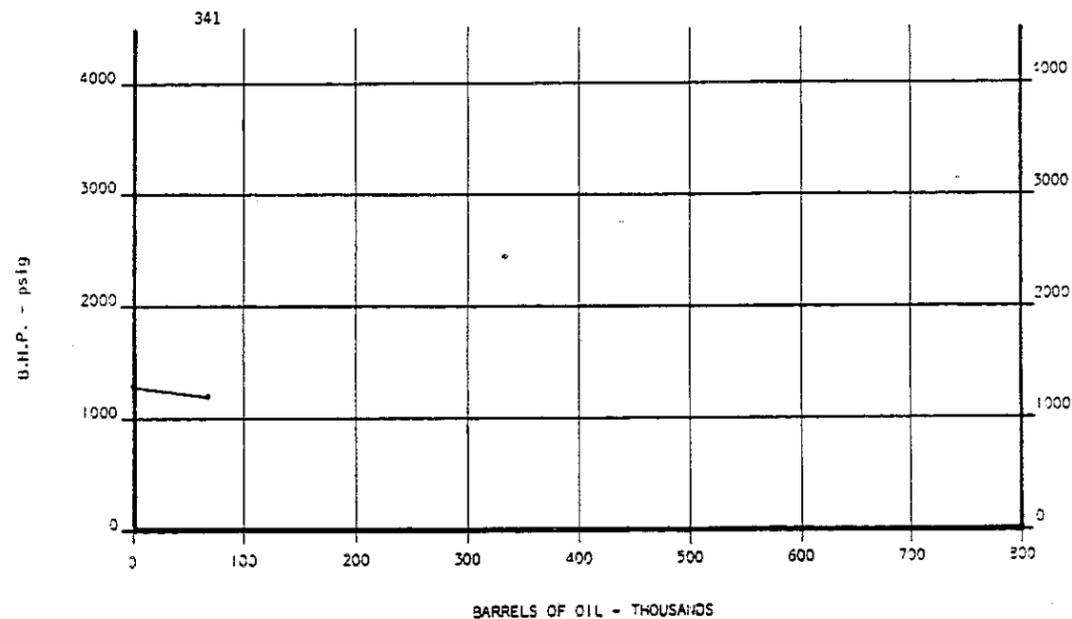
STATE OF MICHIGAN
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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 15b-15-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-77 VIRGIN PRESSURE 1289 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. # 2231	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Koyl #2-15	2-77	N.A.	3171	1289	MARCH 18, 1977 .349	1289	Initial Test		556	1031	
Koyl #6-15	6-80	N.A.	3149	1151	AUGUST 18, 1980 .366	1158	1289 3-18-77	-131	420	805	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Lee 15b-1S-5W



STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 15D-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
PRODUCING FORMATION SAL NIAG DISCOVERY DATE _____ VIRGIN PRESSURE 1179 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	DATE OF PREV. PRESSURE		
Walters-Lavoy#1-	15 6-82	NA	3108	1179	JULY 27, 1982 .407	1179	INITIAL TEST		1023	1077

STATE OF MICHIGAN

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 16-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
PRODUCING FORMATION SAL NIAG DISCOVERY DATE _____ VIRGIN PRESSURE 1202 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	DATE OF PREV. PRESSURE		
Ripley #1-16	12-64	NA	3176	1202	FEBRUARY 7, 1981 .250	1202	INITIAL REPORTED TEST		1080	799

STATE OF MICHIGAN
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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 16A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-78 VIRGIN PRESSURE 1270 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. #	FEET	DATE OF PREV. PRESSURE		
Valliquette LaVoy #5-16	6-78	75.5	3089	1270	JUNE 23, 1978 .551	1270	Initial Test		959	1146

FIELD NAME LEE 168-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-80 VIRGIN PRESSURE 1223 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Heisler #1-16	12-80	N.A.	3195	1223	MARCH 20, 1980 .042	1980 1223	INITIAL TEST		1100	1015	

FIELD NAME LEE 160-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 12-80 VIRGIN PRESSURE 1211 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Ripley-Heisler#1-16	12-80	NA	3176	1211	FEBRUARY 7, 1981 .034	1211	INITIAL REPORTED TEST		1100	1100	

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 16C-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 8-82 VIRGIN PRESSURE 1302 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
MGU 1-16	8-82	NA	3115	1302	SEPTEMBER 8, 1982 .253	1302	INITIAL TEST		1156	1182	

FIELD NAME LEE 17A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 1-84 VIRGIN PRESSURE 1240 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Tilley #1-17	1-84	37	3205	1240	JANUARY 18, 1984 .542	1240	INITIAL TEST		1040	1130	

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 18-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-76 VIRGIN PRESSURE 1382 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. # 2190	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Yost "A" Unit #2	4-76	96	3118	1382		APRIL 28, 1976 .035	1382	Initial Test		1254	1253
Yost "A" Unit #2	4-76	301	3118	1373		MAY 17, 1976 .032	1382	4-28-76	- 9	1242	1240
Yost "A" Unit #2	4-76	N.A.	3118	762		FEBRUARY 28, 1977 .285	1370	5-17-76	- 608	652	696

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 20-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-81 VIRGIN PRESSURE 1235 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. # 2081	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Oberlain-Williams #1-20	7-80	71.5	3020	1235		JUNE 22, 1981 .306	1235	INITIAL TEST		993	1120
Williams Weaver #1-20	2-83	68.	3008	1232		MARCH 2, 1983 .20	1234	6-22-81	-1	1045	1120

STATE OF MICHIGAN
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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 20A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-81 VIRGIN PRESSURE 1296 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. # 2110	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
LaVoy #1-20	10-81	N A	3035	1296		FEBRUARY 4, 1982 .143	1296	INITIAL TEST		1162	1200
LaVoy #1-20	10-81	NA	3036	1200		AUGUST 30, 1982 .286	1200	2-4-82	-96	972	1094
LaVoy #1-20	10-81	NA	3036	1087		DECEMBER 6, 1982 .351	1087	8-30-82	-113	926	992

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 21-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-78 VIRGIN PRESSURE 1233 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. # 2133	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
LaVoy #1-21	9-78	46.8	3069	1233		OCTOBER 2, 1978 .048	1233	Initial Test		1120	1122

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 22-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL. NIAG. DISCOVERY DATE 5-76 VIRGIN PRESSURE 1270 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. # 2107	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSC.	TUB. CSC.
Kibler Baker #3-22	5-76	N.A.	3045	1270		NOVEMBER 2, 1977				590	150
								Initial Test			

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FIELD NAME LEE 23-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 7-79 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. # 2179	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSC.	TUB. CSC.
Cole #1-23	7-79	NA	3145	1241		AUGUST 31, 1979				990	1178
Lutz #1-23	7-79	NA	3136	1245				INITIAL TEST		905	1130
								INITIAL TEST			

FIELD NAME LEE 23A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 7-79 VIRGIN PRESSURE 1274 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. # 2187	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSC.	TUB. CSC.
Gaede #1-23	7-79	NA	3137	1274		DECEMBER 31, 1979				633	967
								INITIAL TEST			

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FIELD NAME LEE 23B-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 8-80 VIRGIN PRESSURE 1220 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. # 2221	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSC.	TUB. CSC.
Nagera-Hymochad #1-23	8-80	NA	3172	1220		AUGUST 7, 1980				903	350
								INITIAL TEST			

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FIELD NAME LEE 23C-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-80 VIRGIN PRESSURE 1228 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. # 2178	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Gaede #2-23	5-80	N.A.	3070	1228	MAY 16, 1980 .402	1228	INITIAL	TEST	313	577	

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 24A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-81 VIRGIN PRESSURE 1300* 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. # 2164	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Lynn-Debruyne #2-24	7-81	N.A.	3107	1124	JULY 20, 1981 .142	1124	INITIAL	TEST		1024	1020
MGU #1-24	9-81	N.A.	3106	1117	OCTOBER 15, 1981 .020	1117	1124	7-20-81	- 7	1026	1028
Lynn-Debrauyn #2-24	7-81	NA	3107	875	MARCH 17, 1982 .060	875				801	800
MGU #1-24	9-81	NA	3106	821	.047	821	1117	10-15-81	-269	751	751
						AVERAGE	848				

*Estimated

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 24-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-78 VIRGIN PRESSURE 1350* 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. # 2156	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Lynn Estate #1-24	5-78	N.A.	3153	835	NOVEMBER 20, 1978 .016	834	1350*	5-78	- 516	763	768
Lynn-Debruyne #1-24B	7-82	48	3168	828	JULY 19, 1982 .560	795	1117	10-15-81	- 322	709	753

* Estimated

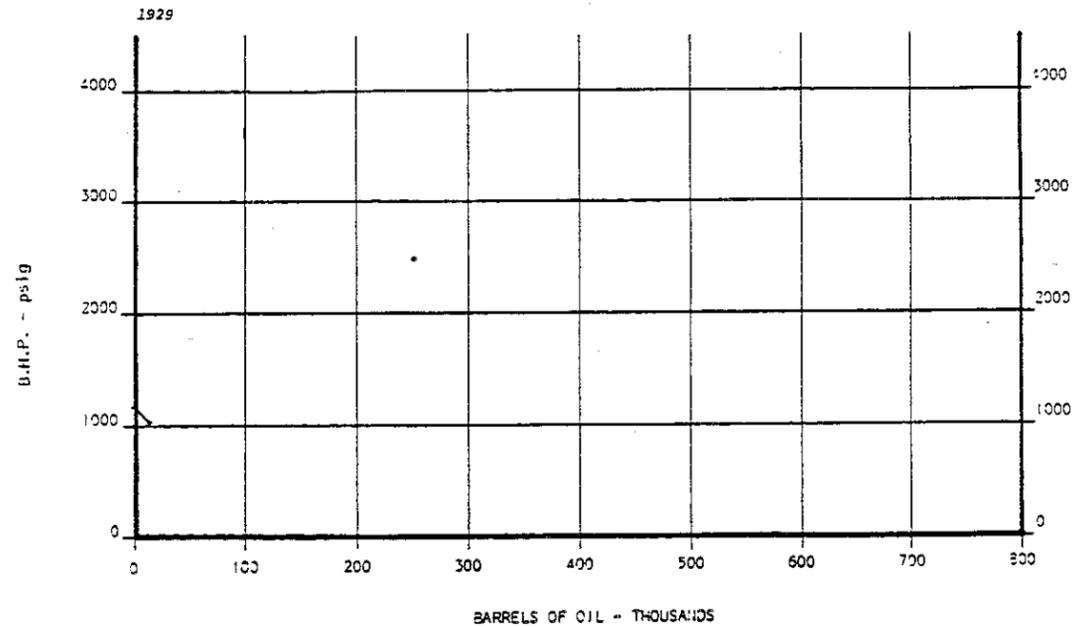
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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 24B-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-81 VIRGIN PRESSURE 1199 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. # 2206	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
USA-Lynn Debruyne #1-24	11-81	N.A.	3153	1199	NOVEMBER 27, 1981 .344	1199	INITIAL	TEST		963	1093
USA-Lynn Debruyne #1-24	11-81	48	3153	1025	JULY 19, 1982 .580	1025	1199	11-27-81	- 174	718	935

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
LEE 24B-1S-5W



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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 30-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-75 VIRGIN PRESSURE 1250 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. # CURRENT PRESS.	2006 PREVIOUS PRESS.	FEET DATE OF PREV. PRESSURE		TUB.	CSG.
I. Rubin #1	12-75	100	2954	1250	MARCH 29, 1976 .532	1250		Initial Test		131	841

FIELD NAME LEE 30A-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 9-77 VIRGIN PRESSURE 1277 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. # CURRENT PRESS.	1995 PREVIOUS PRESS.	FEET DATE OF PREV. PRESSURE		TUB.	CSG.
McLain-Lambrecht #1-30	9-77	--	2942	1277	SEPTEMBER .522	1277		INITIAL TEST		941	1029

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME LEE 30b-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-77 VIRGIN PRESSURE 1306 NO. PRODUCING WELLS

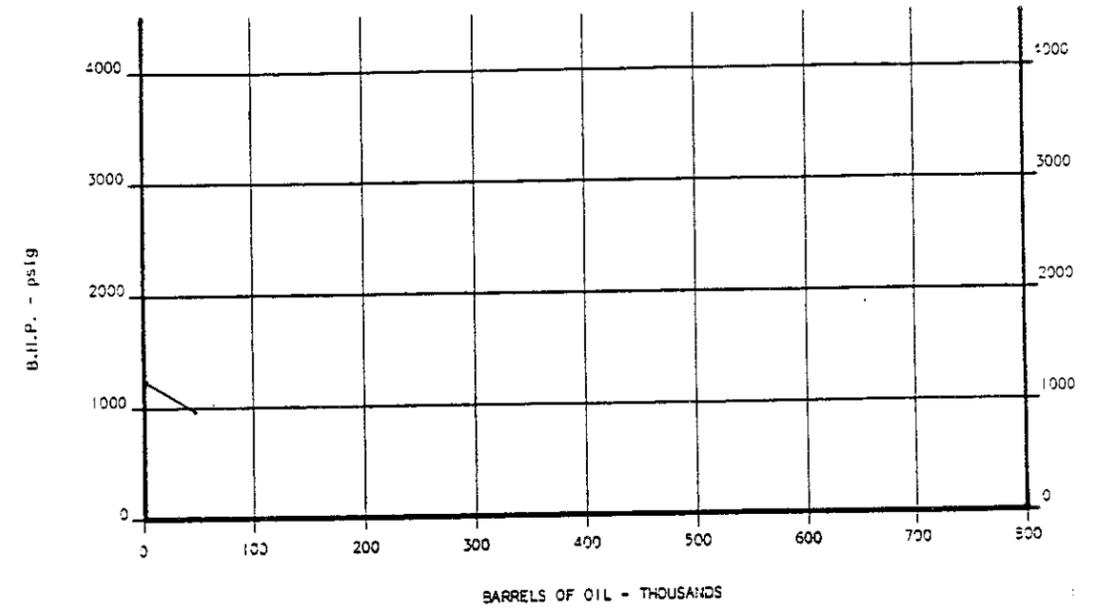
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. # CURRENT PRESS.	2070 PREVIOUS PRESS.	FEET DATE OF PREV. PRESSURE		TUB.	CSG.
Flynn #2-30	10-77	144	3000	1306	OCTOBER 27, 1977 .324	1306		INITIAL TEST		461	696
Scults #1	12-77	N.A.	2997	1283	DECEMBER 31, 1977 .324	1286		INITIAL TEST		576	957

FIELD NAME LEE 32-1S-5W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 2-76 VIRGIN PRESSURE 1081 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. # 1620	FEET	DATE OF PREV. PRESSURE		
Herman #1	2-76		2555	1010	AUGUST 1, 1975 .359	1010		INITIAL TEST		855
Herman #1	2-76	160	2555	976	AUGUST 8, 1975 .530	976		NOT USED IN CALCULATIONS		822
Herman #1	2-76	550	2555	727	SEPTEMBER 5, 1975 .380	727		NOT USED IN CALCULATIONS		590 685
Herman #1	2-76	15 DA	2555	474	DECEMBER 2, 1975 .384	474		NOT USED IN CALCULATIONS		274 464
Vanden Heede #1		9 DA	2563	1081	DECEMBER 19, 1975 .038	1081				1004 1000
Vanden Heede #1		2 WK	2563	1037	JANUARY 15, 1976 .042	1037	1081	12-19-75	-44	959

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION

Pennfield 21-1S-7W



STATE OF MICHIGAN
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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME PENNFIELD 21-1S-7W COUNTY CALHOUN TOWNSHIP PENNFIELD DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 7-75 VIRGIN PRESSURE 1255 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. # 1822	FEET	DATE OF PREV. PRESSURE		
Harold Unit #1	7-75	380	2676	1255	JULY 25, 1975 .36	1255		INITIAL TEST		
Harold #2-A	6-79	24	2651 TVD	967	JUNE 28, 1979 .30*	976	1255	7-26-75	- 279	

* Estimated

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME PENNFIELD 21-1S-7W COUNTY CALHOUN TOWNSHIP LEE DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-79 VIRGIN PRESSURE 1157 NO. PRODUCING WELLS

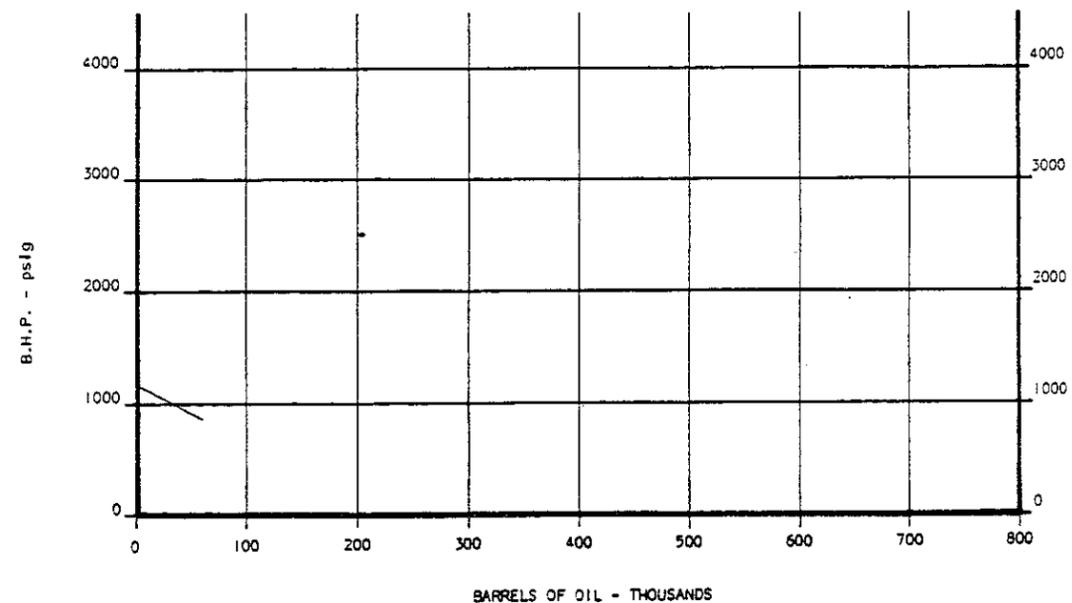
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. # 1818	FEET	DATE OF PREV. PRESSURE		
Brothers 1-A	2-79	24	2675 TVD	1157	MAY 23, 1979 .30*	1157		INITIAL TEST		

* Estimated

FIELD NAME PENNFIELD 28-15-7W COUNTY CALHOUN TOWNSHIP PENNFIELD DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 10-82 VIRGIN PRESSURE 1339 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHOT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. # 2124	FEET	DATE OF PREV. PRESSURE		
City of Battle Creek #1-28A	10-82	39	2968	1339	.10*	1339	INITIAL TEST		376	935

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
 PENNFIELD 29-15-7W



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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME PENNFIELD 29-15-7W COUNTY CALHOUN TOWNSHIP PENNFIELD DATE OF TESTS
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 9-19-73 VIRGIN PRESSURE 1184 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHOT-IN SURFACE PRESSURES TUB. CSG.
						P.S.I. # 1860	FEET	DATE OF PREV. PRESSURE		
McCluskey I-A	9-73	N.A.	2640	1184	.380	1184	INITIAL TEST		442	400
McCluskey I-A	9-73	49.5	2640	852	.10	861	9-10-73	-323	764	790

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME PENNFIELD 35-15-7W COUNTY CALHOUN TOWNSHIP PENNFIELD DATE OF TESTS
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 2-8-74 VIRGIN PRESSURE 1195 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHOT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. # 1877	FEET	DATE OF PREV. PRESSURE			
Reid #1	2-74	N.A.	2853	1195	.528	1195	INITIAL TEST				
Reid #1	2-74	75	2853	1187	.5249	1187				95 149	
Kenitz #1	2-75	3 Mos.	2864	1209	.3918	1189				434 571	
Hill Unit #1	2-75	17 Days	2858	1244	.5730	1223				3 359	
Bayer Unit #1	3-75	2 Mos.	2830	1226	.5184	1223				325 506	
Church Unit #1	4-75	1 Mos.	2851	1133	.5128	1121				209 182	
Rolffs Unit #1	4-75	21 Days	2846	1220	.3713	1219				321 478	
Christophel-Sutherland #1	4-75	39 Days	2822	1185	.3821	1196				353 557	
E Christophel #1	2-75	3 Mos.	2813	1206	.3595	1217				405 791	
H Christophel #1	4-75	79	2818	1013	.3831	1026				229 849	
					AVERAGE	1178	1195	5-3-74	- 17		
					JANUARY 3, 1977						
Pennfield 35 Unit	11-2 12-76	72	2854	1221	.534	1217	1178	5-15-75	+ 39	58	293
					MAY 2, 1977						
Pennfield 35 Unit	#1-A 4-77	48	2904 TVD	798	.362	793		NOT USED IN CALCULATIONS		315	647
								WATERFLOOD INJECTION BEGINS	June, 1976		

PENNFIELD 35-1S-7W

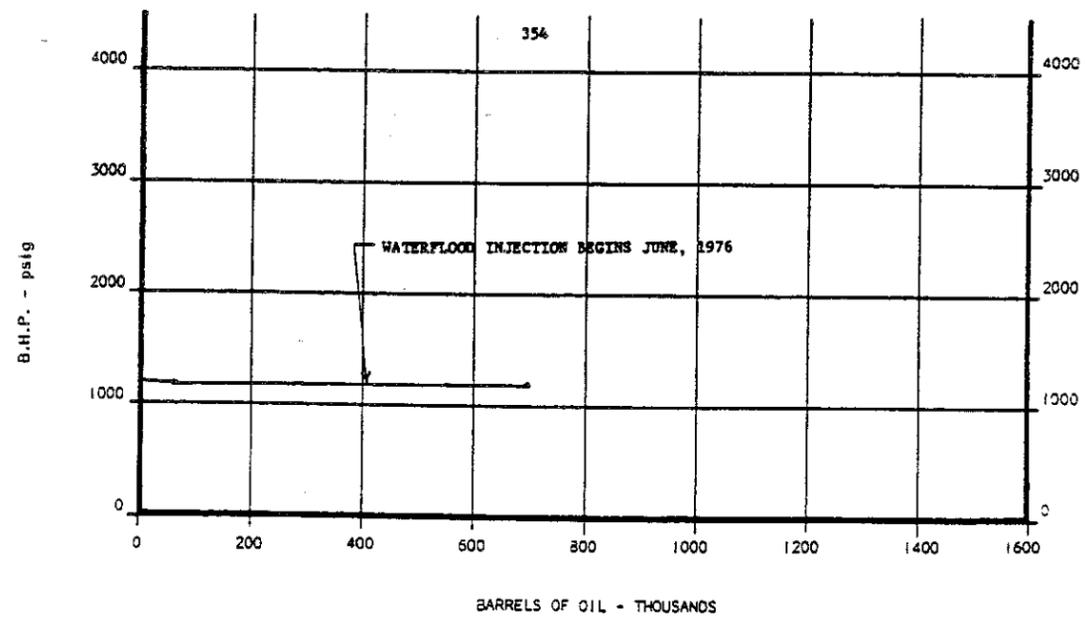
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHIFT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. 1877	PREVIOUS PRESSURE	DATE OF PREV. PRESSURE		TUB.	CSG.
Kanitez #1	2-75	24	2861	644	FEBRUARY 16, 1978 .548	642				0	0
Rolff #1	4-75	24	2841	602	FEBRUARY 18, 1978 .502	604				0	0
Reid #1	2-74	24	2853	953	FEBRUARY 27, 1978 .488	953				0	0
E. C. Christopher #1	2-75	24	2813	354	MARCH 3, 1978 .535	370				0	0
H. Christopher #1	4-75	24	2818	215	MARCH 8, 1978 .29	225				0	0
WIW # A 1-1	4-77	72	2804 TVD	1119	MARCH 23, 1978 .354	1132				613	PKR
Pennfield Unit #11-2	3-77	72	2854	1373	MAY 5, 1978 .546	1369				0	443
Bechtol #1	6-75	--	2896	405	SEPTEMBER 6, 1979 .487	399				0	0

REMARKS: The Mobil office in Mason believes there maybe four (4) reservoirs present in the Pennfield 35 Unit.

EATON

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION

PENNFIELD 35 UNIT



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

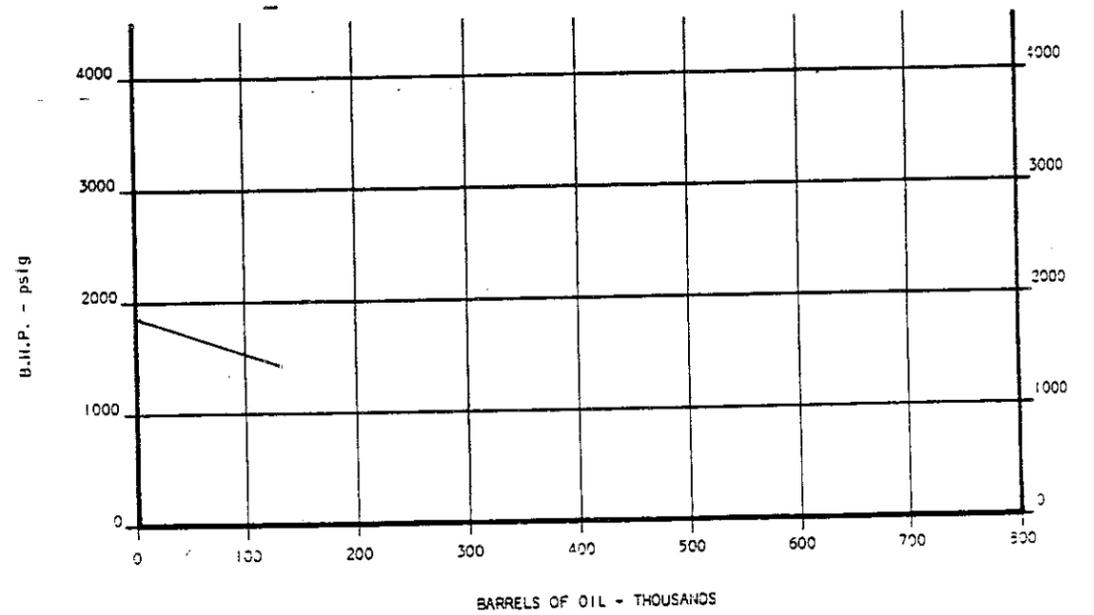
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME BROOKFIELD 2-1N-4W COUNTY EATON TOWNSHIP BROOKFIELD DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-79 VIRGIN PRESSURE 1825 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. @ 2830 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG
Sederlund #1-2	8-79	N.A.	3753	1781	AUGUST 6, 1979 321	1781	INITIAL TEST		737	879	
Banks #1-35	9-79	N.A.	3776	1835	DECEMBER 12, 1979 312	1825	INITIAL TEST		907	1176	
Banks-Keffus #1-35	9-79	71	3776	1479	JANUARY 19-30, 1982 275	1470			1158	1239	
Sederlund #1-2	8-79	71	3753	1346	353	1346					
					Average	1408	1825	12-12-79	- 417	489	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

BROOKFIELD 2-1N-4W



FIELD NAME BROOKFIELD 24-1N-4W COUNTY EATON TOWNSHIP BROOKFIELD DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 1-84 VIRGIN PRESSURE 1616 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. # 2654	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Oliver #1-24A	1-84	44	3608 TVD	1616	JANUARY 7, 1984 .306	1984	1616	INITIAL TEST		567	729
Oliver #1-24A	1-84	44	3608 TVD	1476	JULY 7, 1984 .311	1476	1616	1-7-84	-140	552	1244
Oliver #1A-24	1-84	48	3608 TVD	1350	DECEMBER 12, 1984 .277	1350	1476	7-7-84	-126	280	1140

* = Assumed

STATE OF MICHIGAN

FIELD NAME BROOKFIELD 26-1N-4W COUNTY EATON TOWNSHIP BROOKFIELD DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 4-83 VIRGIN PRESSURE 1407 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. # 2657	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Coates #1-26B	4-83	--	3595	1407	MAY 2, 1983 .324	1407		INITIAL TEST		1235	1236

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON 25-2N-4W COUNTY EATON TOWNSHIP EATON DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 7-81 VIRGIN PRESSURE 1650 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. # 2938	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Harris #1-25	7-81	N.A.	3885	1650	AUGUST 28, 1981 .348	1650		INITIAL TEST			666

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON 35-2N-4W COUNTY EATON TOWNSHIP EATON DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 1-82 VIRGIN PRESSURE 1770 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. # 2819	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Dailey #1-35	1-82	48.5	3730	1770	DECEMBER 17, 1981 .326	1770		INITIAL TEST		984	1057
Dailey #1-35	1-82	24	3730	978	APRIL 7, 1983 .478	978	1770	12-17-81	-792	332	831

FIELD NAME EATON RAPIDS 6-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 1-84 VIRGIN PRESSURE 1971 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. # 3213	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Jones #2B-7	1-84	43	4148 TVD	1971	.186	DECEMBER 31, 1984	1971	INITIAL TEST		1683	1632

FIELD NAME EATON RAPIDS 8-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 5-74 VIRGIN PRESSURE 1953 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. # 3030	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Kunkel #1-8	5-74	43	3919	1953	MAY 6, 1974 .065	1953		INITIAL TEST		--	--
Kunkel #1-8	5-74	20 DA	3919	1758	NOVEMBER 10, 1977 .06	1953		5-6-74	-195	--	--
Kunkel #1-8	5-74	50 DA	3919	1602	SEPTEMBER 26, 1978 .06	1758		11-10-77	-156	1400	
Kunkel #1-8	5-74	11 DA	3917	1365	MARCH 18, 1980 .06	1602		9-26-78	-237	1220	
Kunkel #1-8	5-74	24	3919	936	JUNE 8, 1982 .02	1365		3-18-80	-429	842	
Kunkel #1-8	5-74	1 DA	3919	435	NOVEMBER 3, 1983 .02	936		6-8-82	-501	391	

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 7-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG DISCOVERY DATE 3-78 VIRGIN PRESSURE 1982 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. # 3154	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Mulkey 1-7	3-78	5	4036	1982	MARCH 2, 1978 .054	1982		INITIAL TEST		1726	1724
Mulkey #1-7	3-78	N.A.	4036	1620	APRIL 24, 1979 .05	1620	1982	3-2-78	-362	1421	1446

STATE OF MICHIGAN

FIELD NAME EATON RAPIDS 8A-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 8-75 VIRGIN PRESSURE 1973 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. # 3109	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Kunkel #2-8	8-75	--	3996	1973	AUGUST 25, 1975 .06	1973		INITIAL TEST		1711	
Kunkel #2-8	8-75	26	3997	1600	NOVEMBER 9, 1977 .05*	1600	1973	8-25-75	-373	1407	
Kunkel #2-8	8-75	24	3997	1310	SEPTEMBER 27, 1978 .05	1310	1600	11-9-77	-290	1150	
Kunkel #2-8	8-75	23	3996	968	MARCH 19, 1980 .07	968	1310	9-27-78	-342	750	
Kunkel #2-8	8-75	366	3996	710	JUNE 7, 1982 .02	710	968	3-19-80	-258	642	
Kunkel #2-8	8-75	21 DA	3996	505	NOVEMBER 2, 1983 .02	505	710	6-7-82	-205	463	

* - Estimated

FIELD NAME EATON RAPIDS 9-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 10-84 VIRGIN PRESSURE 1929 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. # 3150	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Smith #1-9	10-84	46	4077	2929	.02*	OCTOBER 18, 1984	1929	INITIAL TEST		1673

* = Assumed

FIELD NAME EATON RAPIDS 17-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 6-13-73 VIRGIN PRESSURE 1966 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. # 3024	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Twork #2-17	4-74	17.5	3929	1954	.080	APRIL 29, 1974	1954	INITIAL TEST			
Twork #2-17	4-74	29 DA	3929	1629	.06*	NOVEMBER 10, 1977	1628	1954	4-29-74	-326	1438
Twork #2-17	4-74	7 DA	3929	1468	.05	SEPTEMBER 26, 1979	1468	1628	11-10-77	-160	1306
Twork #2-17	4-74	72	3929	1100	.06	MARCH 19, 1980	1100	1468	9-26-79	-368	975

* = Estimated

STATE OF MICHIGAN

FIELD NAME EATON RAPIDS 16-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 9-80 VIRGIN PRESSURE 1942 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. # 3117	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Kunkel #1-16	9-80	68.8	4010	1942	.302	SEPTEMBER 26, 1980	1942	INITIAL TEST		1552 1675	
Kunkel #2-16	7-81	70	4032	1943	.281	AUGUST 28, 1981	1937	1942	9-26-80	- 5	1272 1674
Kunkel #1-16	9-80	24.3	4010	1840	.296	JANUARY 14, 1982	1840			1453 1603	
Kunkel #2-16	7-81	25.3	4038	1939	.313		1931			1362 1580	
					Avg.	1886	1937	8-28-81	- 52		
Kunkel #1-16	9-80	14	4010	1639	.30*	OCTOBER 18, 1982	1639	NOT USED IN CALCULATIONS		1250 1415	
Kunkel #1-16	9-80	20	4010	1602	.30*	SEPTEMBER 19-20, 1983	1602			900 1000	
Kunkel #2-16	7-81	20	4050	1756	.30*		1744	1886	10-18-82	-213	-- --
					AVERAGE	1673					
Kunkel #1-16	9-80	48	4043	1549	.581	APRIL 12-14, 1984	1530			1000 442	
Kunkel #2-16	7-81	43	4038	1695	.236		1688	1673	9-20-83	-64	1155 992
					AVERAGE	1509					

* = Assumed

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 17a-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 9-79 VIRGIN PRESSURE 1958 NO. PRODUCING WELLS

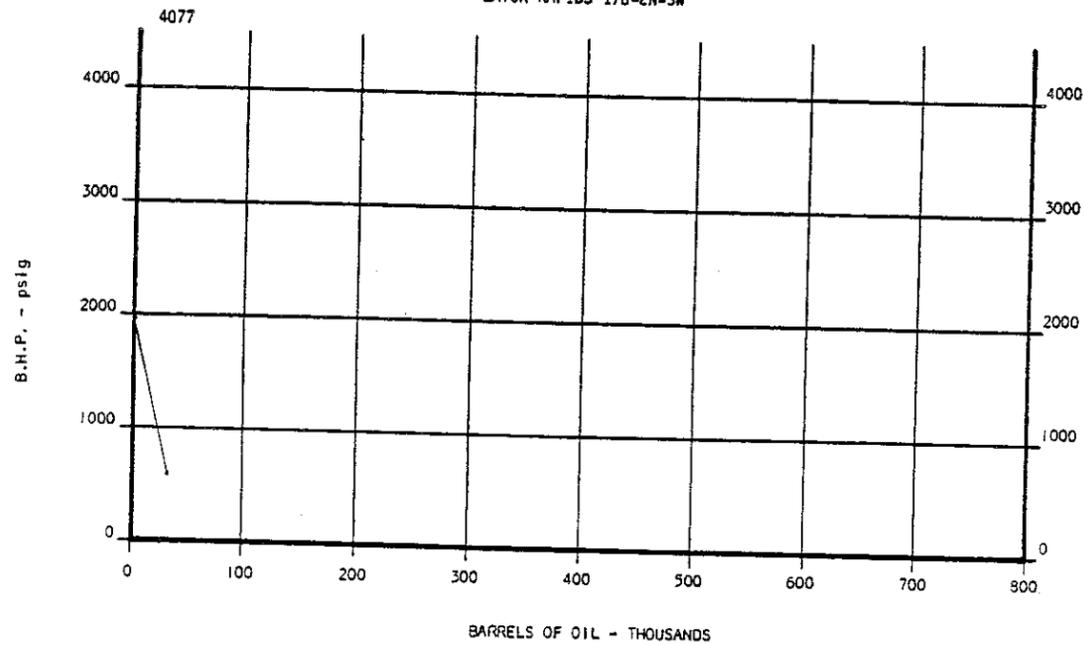
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. # 3136	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Getter #3-17	9-79	143 Est.	4064	1958	.138	SEPTEMBER 3, 1979	1958	INITIAL TEST		1683 1683	
Getter #3-17	9-79	71.5	4060	973	.039	JULY 2, 1981	973	1958	9-3-79	- 985	857 866
Getter #3-17	9-79	72	4063	345	.466	APRIL 11, 1984	345	973	7-2-81	-628	160 205

FIELD NAME EATON RAPIDS 17B-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-80 VIRGIN PRESSURE 1961 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. #	3159 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Getter #4-17	1-80	69.8	4077	1961	JANUARY 25, 1980 .312	1961	INITIAL TEST		1302		
Getter #4-17	1-80	72	4081	586	APRIL 11, 1983 .30*	585	1961	1-25-80	-1376	50	70

* = Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
EATON RAPIDS 17B-2N-3W



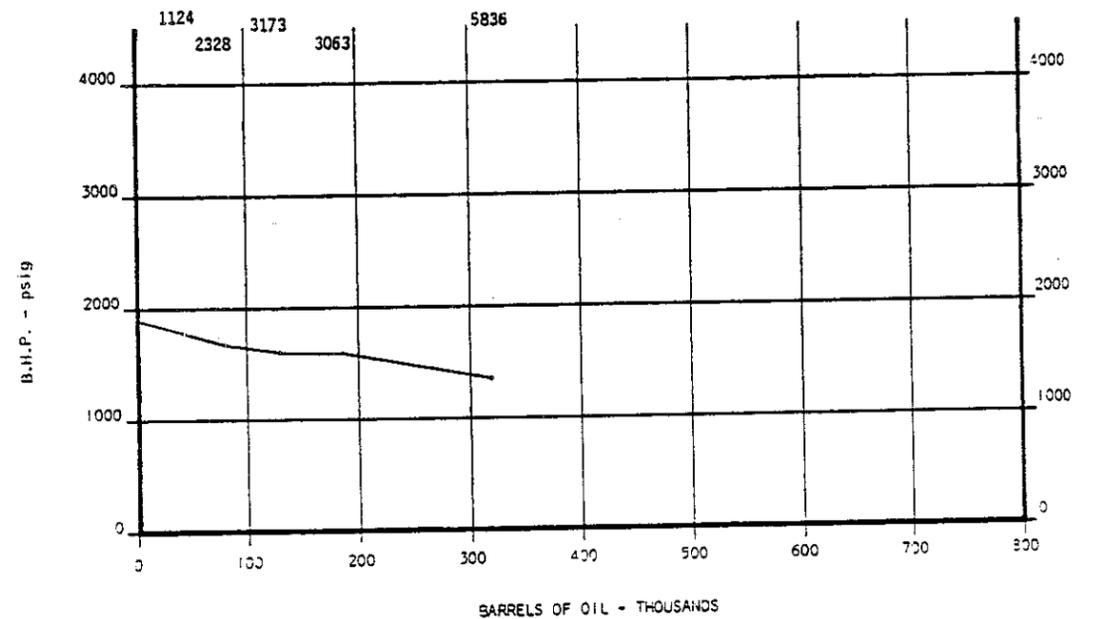
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 20-2N-3W (NORTH) COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-74 VIRGIN PRESSURE 1890 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. #	3080 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Wood #1	12-74	68	3983	1890	FEBRUARY 14, 1975 .508	1890	INITIAL TEST		673	1050	
Marciniak #1-20	9-75	71	3986 TVD	1801	SEPTEMBER 22, 1977 .48	1811	1890	2-14-75	-79	0	661
Lewis Wood #1	12-74	72	3983	1785	MAY 22, 1978 .532	1785	1811	9-22-77	-26	0	142
Smith #1A-21	6-77	10	4028 TVD	1809	JUNE 28, 1978 .32	1805	NOT USED IN CALCULATIONS			576	842
Marciniak #1-20	9-75	48.8	4019 TVD	1642	AUGUST 28-29, 1980 .433	1637				0	0
Lewis Wood #1	11-74	70.5	3983	1634	.335	1634				659	1006
Smith #1A-21	6-77	70.3	4028 TVD	1611	.345	1607				1252	1429
					Average	1626	1785	5-22-78	-159		
Smith #1A-21	6-77	24	4027 TVD	1431	OCTOBER 18, 1982 .35*	1427	1625	8-29-80	-198	940	860
Marciniak #1-20	9-75	48	4021 TVD	1384	FEBRUARY 16, 1984 .30*	1380	1427	10-18-82	-47	560	560
Smith #1A-21	6-77	48	4027 TVD	1317	APRIL 8, 1984 .327	1313	1380	2-16-84	067	840	410

* = Assumed

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION
Eaton Rapids 20-2N-3W (North)



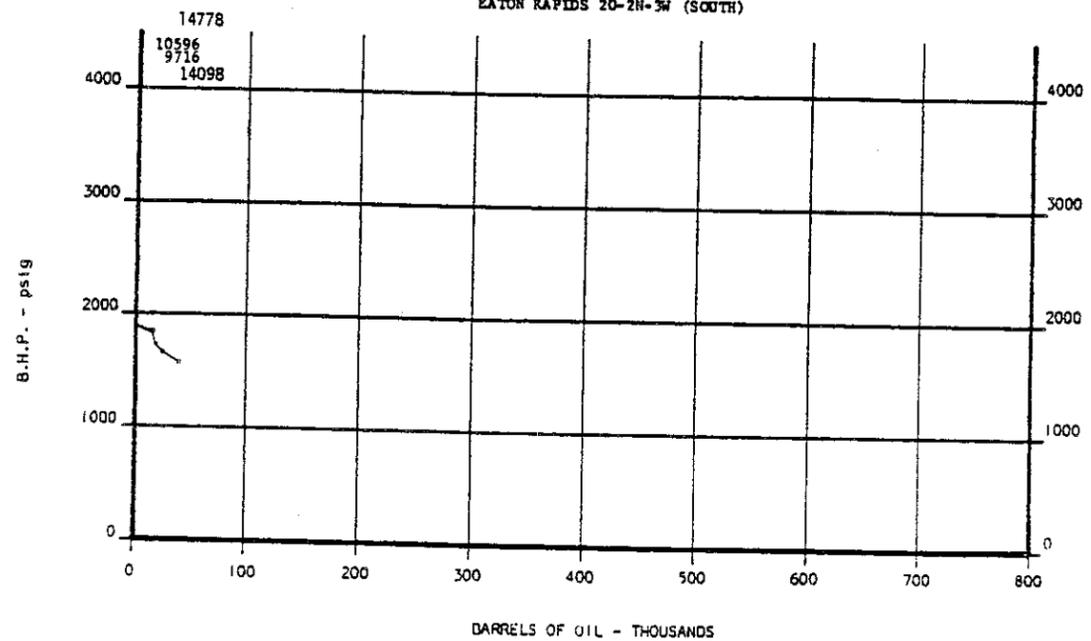
STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 20-2N-3W (SOUTH) COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-75 VIRGIN PRESSURE 1917 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. @ 3080 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB. CSG.
Zentmyer-Bowen #1	8-75	141.5	3978	1914	AUGUST 19, 1975 306	1917		Initial Test	971	1084	
Zentmyer-Bowen #1	8-75	26	3986	1891	SEPTEMBER 1, 1976 290	1892	1917	8-19-75	- 25	1418 1501	
Zentmyer-Bowen #1	8-75	24	3892	1808	SEPTEMBER 8, 1977 350	1842	1892	9-1-76	- 50	1464 1549	
Zentmyer-Bowen #1	8-75	24	3892	1731	OCTOBER 26, 1978 10	1741	1842	9-8-77	- 101	1520 1491	
Zentmyer-Bowen #1	8-75	N.A.	3892	1647	OCTOBER 24, 1979 075	1655	1741	10-26-78	- 86	1450 1445	
Zentmyer-Bowen #1	8-75	N.A.	3986	1602	AUGUST 27, 1980 051	1603	1655	10-24-79	- 52	1400 1358	
Zentmyer-Bowen #1	8-75	48	3986	1537	JULY 29, 1981 048	1537	1603	8-27-80	- 66	1345 1327	
Zentmyer-Bowen #1	8-75	N.A.	3930	1446	JULY 29, 1982 079	1451	1537	7-29-81	- 86	1273 1243	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
EATON RAPIDS 20-2N-3W (SOUTH)



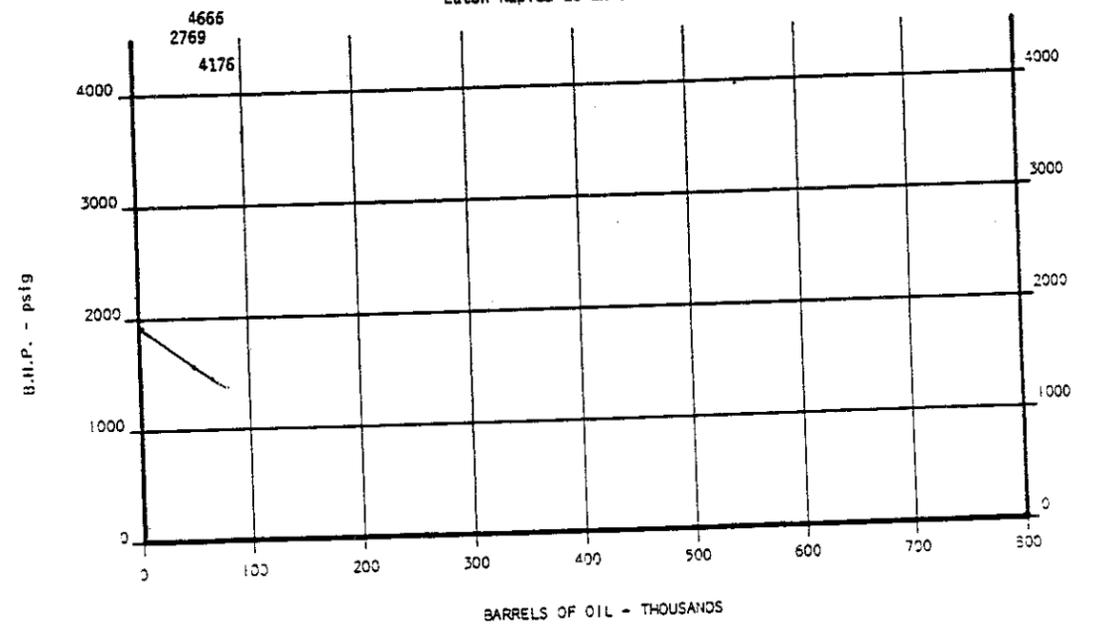
STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 20-2N-3W (SOUTHWEST) COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 11-74 VIRGIN PRESSURE 1918 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. @ 3080 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB. CSG.
Zentmyer-Cupp #1	11-74	N.A.	3947	1900	DECEMBER 2, 1974 340	1918		INITIAL TEST		837 903	
Zentmyer-Cupp #1	11-74	24	3937	1756	DECEMBER 3, 1975 298	1775	1918	12-2-74	- 143	1170 1498	
Zentmyer-Cupp #1	11-74	24	3937	1658	SEPTEMBER 8, 1977 277	1672	1775	12-5-76	- 103	1265 1419	
Zentmyer-Cupp #1	11-74	N.A.	3937	1577	AUGUST 24, 1978 255	1593	1672	9-8-77	- 79	1075 1185	
Zentmyer-Cupp #1	11-74	N.A.	3937	1434	OCTOBER 24, 1979 30	1453	1593	8-24-78	- 140	1048 1282	
Zentmyer-Cupp #1	11-74	N.A.	3937	1353	AUGUST 27, 1980 30	1369	1453	10-24-79	- 84	1012 1221	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Eaton Rapids 20-2N-3W Southwest



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 22-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS _____
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 1-82 VIRGIN PRESSURE 1881 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. @ 3056 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Bosworth #1-22A	1-82	48.5	3969 TVD	1880	MAY 24, 1982 .078	1880	INITIAL	TEST		1622	1643
Bosworth #1-22A	1-82	NA	3969 TVD	1881	JULY 30, 1982 .074	1881	INITIAL	TEST		1628	1619

STATE OF MICHIGAN
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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 28-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS _____
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 4-13-74 VIRGIN PRESSURE 1764 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. @ 2929 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Wilson 1-28	4-74	7 Days	3851	1764	MAY 2, 1974 .320	1764	INITIAL	TEST		423	955
Wilson #1-28	4-74	144	3851	1468	NOVEMBER 18, 1976 .360	1473	1764	5-2-74	- 291	749	816
Adams Krawczyk 1-28	4-80	90	3873	1444	MAY 9, 1980 .34	1443	1473	11-18-76	- 30	395	472

STATE OF MICHIGAN

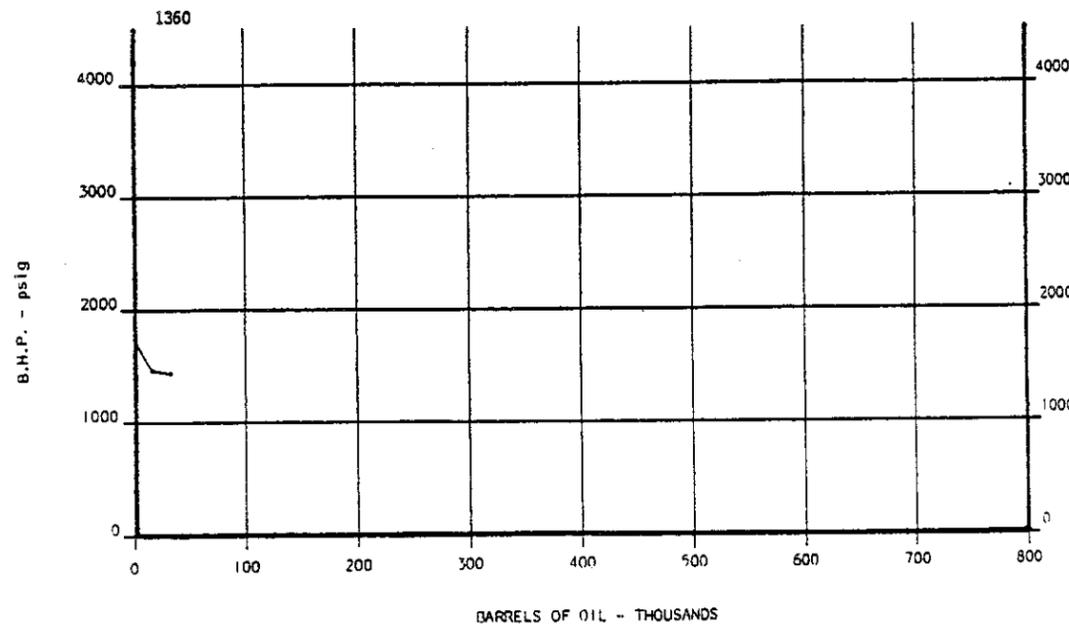
FIELD NAME EATON RAPIDS 25-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS _____
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 5-76 VIRGIN PRESSURE 1840* NO. PRODUCING WELLS _____

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. @ 3093 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Eaton County Road	Commission #1-25 5-76	70	4009 TVD	1808	FEBRUARY 27, 1978 .55	1808	1840	5-76	- 32	1418	1655
Production of 143,000 Mcf gas and 3,100 Bbl. oil at time of test.											
Eaton County Road	Commission #1-25 5-76	88	4009 TVD	1651	AUGUST 31, 1978 .30*	1651	1808	2-27-78	- 157	1032	1146
Eaton County Road	Commission #1-25 5-76	46.3	3952 TVD	899	APRIL 15, 1981 .022	900	1651	8-31-78	- 751	804	806
Eaton County Road	Commission #1-25 5-76	---	3952 TVD	242	OCTOBER 20, 1983 .540	273	900	4-15-81	-627	7	220

*Estimated

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

EATON RAPIDS 28-2N-3W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

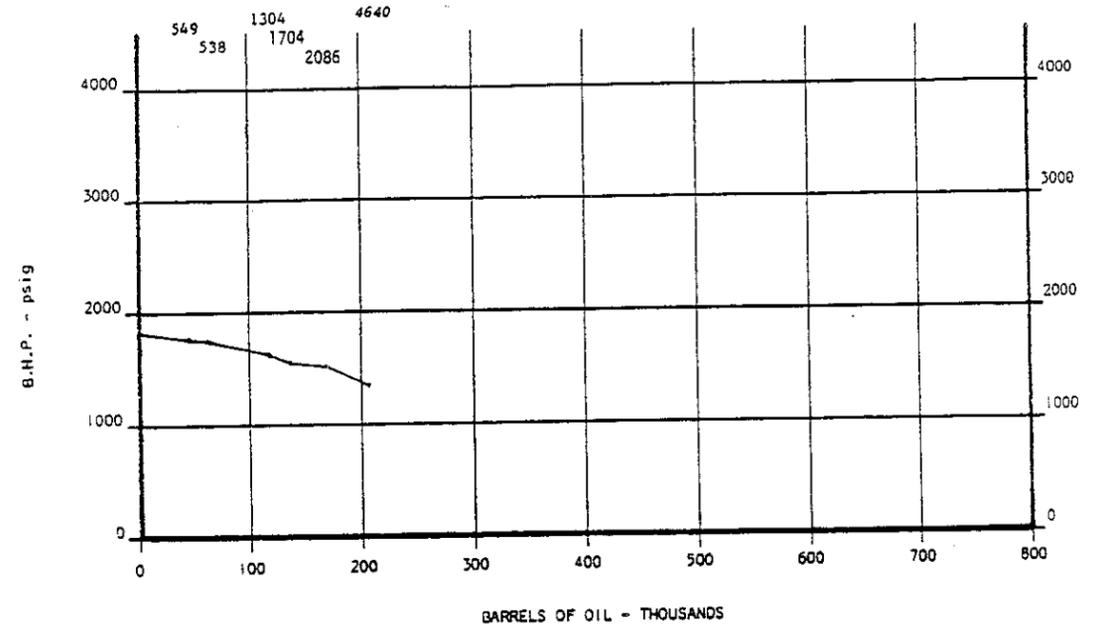
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 28B-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION A1-CARB DISCOVERY DATE 9-81 VIRGIN PRESSURE 1860 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. # 2989	FEET	DATE OF PREV. PRESSURE			
Charles Wood #1-28	9-81	---	3878	1860		SEPTEMBER 22, 1981				1600	PKG
Baker #1-27	7-84	41	3871 TVD	1312		JULY 15, 1984	1860	9-22-81	-545	1120	PKG

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

EATON RAPIDS 32-2N-3W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 32-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-76 VIRGIN PRESSURE 1830 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. # 2894	FEET	DATE OF PREV. PRESSURE				
Mock #1	4-76	69.3	3798	1830		MAY 5, 1976	1830	INITIAL PRESSURE		720	657	
Mock #1	4-76	25	3798	1766		APRIL 5, 1977	1766	1830	5-5-76	- 64	663	729
Mock #1	4-76	24	3798	1737		JULY 22, 1977	1739	1766	4-5-77	- 27	633	748
Mock #1	4-76	24	3798	1632		OCTOBER 11, 1978	1634	1739	7-22-77	- 105	605	1430
Mock #1	4-76	N.A.	3798	1570		AUGUST 30, 1979	1572	1634	10-11-78	- 62	1305	1372
Mock #1	4-76	N.A.	3798	1506		AUGUST 7, 1980	1508	1572	8-30-79	- 64	1209	1346
Mock #1	4-76	48	3798	1470		JULY 29, 1981	1472	1508	8-7-80	- 36	1274	1281
Mock #1	4-76	N.A.	3798	1353		JULY 29, 1982	1355	1472	7-29-81	- 117	1087	1210

STATE OF MICHIGAN
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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 32a-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-77 VIRGIN PRESSURE 1813 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. # 2894	FEET	DATE OF PREV. PRESSURE				
Webster #1	3-77	70	3782	1809		MARCH 11, 1977	1811	1809		1594	1578	
Webster #1	3-77	137 Days	3782	1811		JULY 22, 1977	1813	1811		1594	1584	
Webster #1	3-77	24	3782	1737		DECEMBER 8, 1977	1739	1813	7-22-77	- 74	1531	1531
Webster #1	3-77	24	3782	1224		OCTOBER 26, 1978	1225	1739	12-8-77	- 514	1094	1094
Webster #1	3-77	24	3782	691		AUGUST 1, 1979	693	1225	10-26-78	- 532	690	690
Webster #1	3-77	N.A.	3782	472		JULY 30, 1980	473	693	8-1-79	- 220	423	423
Webster #1	3-77	48	3782	163		AUGUST 5, 1981	174	473	7-30-80	- 299	64	149
Webster #1	3-77	N.A.	3782	28		JULY 22, 1982	38	174	8-5-81	- 136	14	19

STATE OF MICHIGAN
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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 32b-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-79 VIRGIN PRESSURE 1803 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. #	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Hanks #1-32	2-79	72	3715	1803		FEBRUARY 22, 1979 06	1803	INITIAL TEST		1576	1570
Hanks #1-32	2-79	N.A.	3715	1683		JULY 30, 1980 .06	1683	1803 2-22-79	- 120	1475	1472
Hanks #1-32	2-79	N.A.	3715	1298		AUGUST 25, 1981 .06	1298	1683 7-30-80	- 385	1148	
Hanks #1-32	2-79	N.A.	3715	596		JULY 15, 1982 .02	596	1298 8-25-81	- 702	539	551

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 33-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-76 VIRGIN PRESSURE 1748 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. #	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Owens Unit #1	6-76	N.A.	3828	1748		JUNE 17, 1976 N.A.	1748	INITIAL TEST			

FIELD NAME EATON RAPIDS 33A-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 5-81 VIRGIN PRESSURE 1776 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. #	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Ackley-Brown #2-33	5-81	72	3772 TVD	1776		MAY 18, 1981 .327	1776	INITIAL TEST		668	851

STATE OF MICHIGAN
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BOTTOM-HOLE PRESSURE TESTS

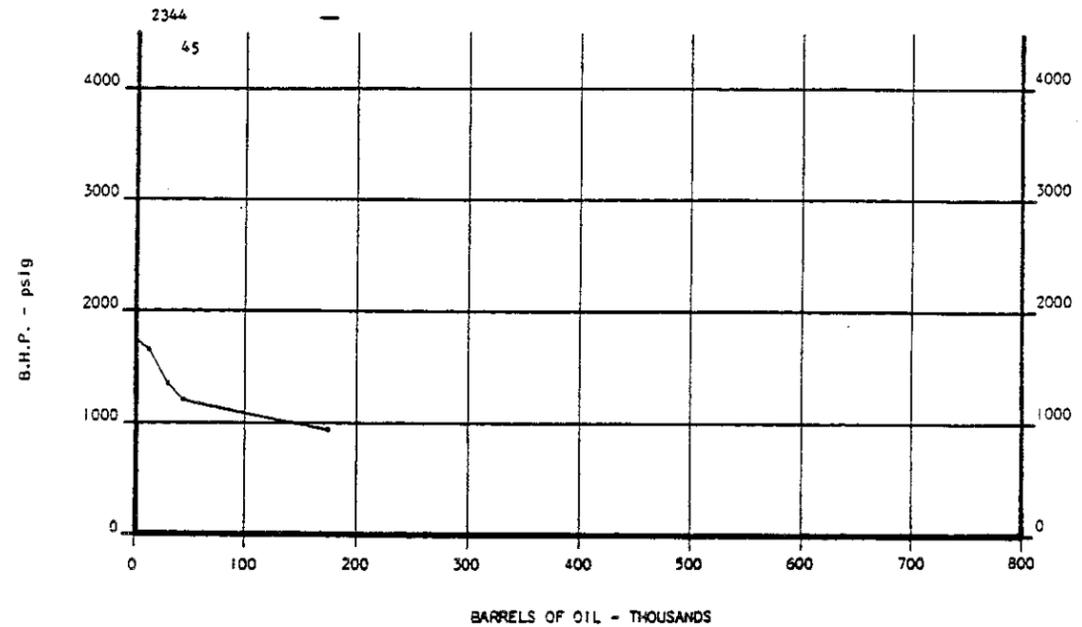
FIELD NAME EATON RAPIDS 35-2N-3W (NR) COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-15-72 VIRGIN PRESSURE 1750* NO. PRODUCING WELLS

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. #	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Miller Dairy Farms 1-35	11-72	31	3764	1425		OCTOBER 9, 1972	1425	INITIAL TEST		401	
						PERFORATIONS SQUEEZED OFF					
						DECEMBER, 1973					
Miller Dairy Farms 1-35	11-72	90	3735	1657		N.A.	1657*	INITIAL TEST FOLLOWING REWORK			
						NEW PERFORATIONS AT 3690' TO 3750'					
Miller Dairy Farms #1-35	11-72	70	3690	1337		SEPTEMBER 12, 1975	1363	1657 12-73	- 294	1204	1204
						MAY 8, 1976					
Miller Dairy Farms #1-35	11-72	73.7	3714	1205			1208	1363 9-12-75	- 155	1088	1087
						OCTOBER 8, 1983					
Miller Dairy Farms #1-35	11-72	--	3917	941			867	1208 5-8-76	- 341	793	797

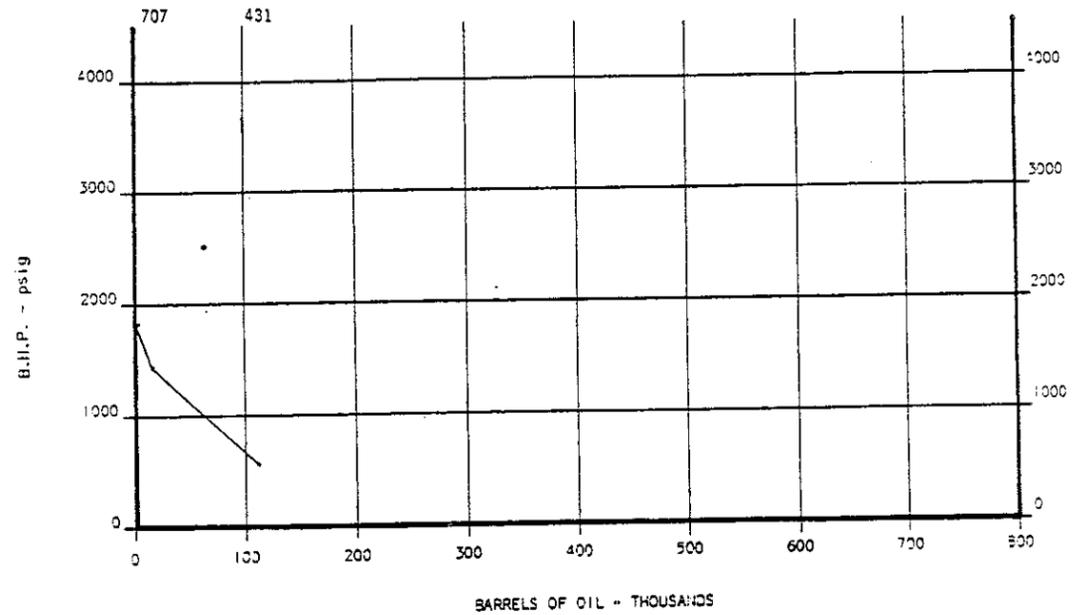
* Estimate. Approximately 13,600 bbls. production at time of this BHP test.

The Miller Dairy Farms 1-35 and Miller Dairy Farms 2-35 are likely in separate reservoirs although possibly in the same reef.

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
EATON RAPIDS 35-2N-3W (Northeast)



BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Eaton Rapids 35-2N-2W Southwest



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 35-2N-3W (SW) COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 9-77 VIRGIN PRESSURE 1811 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. #	2868 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Miller Dairy Farms #2-35 9-77		61	3760*	1806	.30*	1811	INITIAL PRESSURE		496	984	
Miller Dairy Farms #2-35 9-77		99	3760	1441	.39	1448	1811	9-22-77	- 363	89	1160
Miller Dairy Farms #2-35 -83		63	3789	489	.513	478	1448	2-26-79	-970	--	--
<p>SEPTEMBER 22, 1977</p> <p>FEBRUARY 26, 1979</p> <p>JANUARY 24, 1983</p>											
<p>The Miller Dairy Farms 1-35 and Miller Dairy Farms 2-35 are likely in separate reservoirs although possibly in the same reef.</p>											
* Estimate											

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME EATON RAPIDS 36-2N-3W COUNTY EATON TOWNSHIP EATON RAPIDS DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-29-71 VIRGIN PRESSURE 1786 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. #	2747 FEET BMSL	DATE OF PREV. PRESSURE		TUB.	CSG.
Gaylord McKessy #1	6-72	18 Hrs	3650	1783	.0607	1786	INITIAL TEST				
VFW Miller #1	7-72	62	3655	1785	.0592	1785	INITIAL TEST				
Barth Unit #1	7-72	18	3706	1778	.04528	1777	INITIAL TEST				
Depeel #1	8-72	75	3716	1565	.052	1563				1380	
VFW Miller #1	7-72	79	3655	1601	.084	1601				1410	
Gaylord McKessy #1	6-72	81	3714	1593	.053	1592				1405	
Barth Unit #1	7-72	74	3706	1579	.066	1577				1388	
Aleo #1	5-72	97	3680	1592	.056	1591				1402	
Ledergerber #1	11-71	84	3756	1566	.051	1563				1378	
Williams #1	5-73	4 Mos	3680	1778	.055	1777				1561	
AVERAGE						1609	1786	6-20-72	- 177		
VFW Miller #1	7-72	384	3587	1230	.0186	1232				1097	1097
Gaylord McKessy #1	6-72	144	3714	1228	.0234	1229				1085	1085
Barth Unit #1	7-72	144	3636	1194	.0694	1197				1065	1066
Aleo #1	5-72	144	3680	1228	.0528	1228				1090	1090
AVERAGE						1222	1609	9-21-72	- 387		
Aleo #1	5-72	48	3680	752	.018	752	1222	12-12-74	- 470	673	674

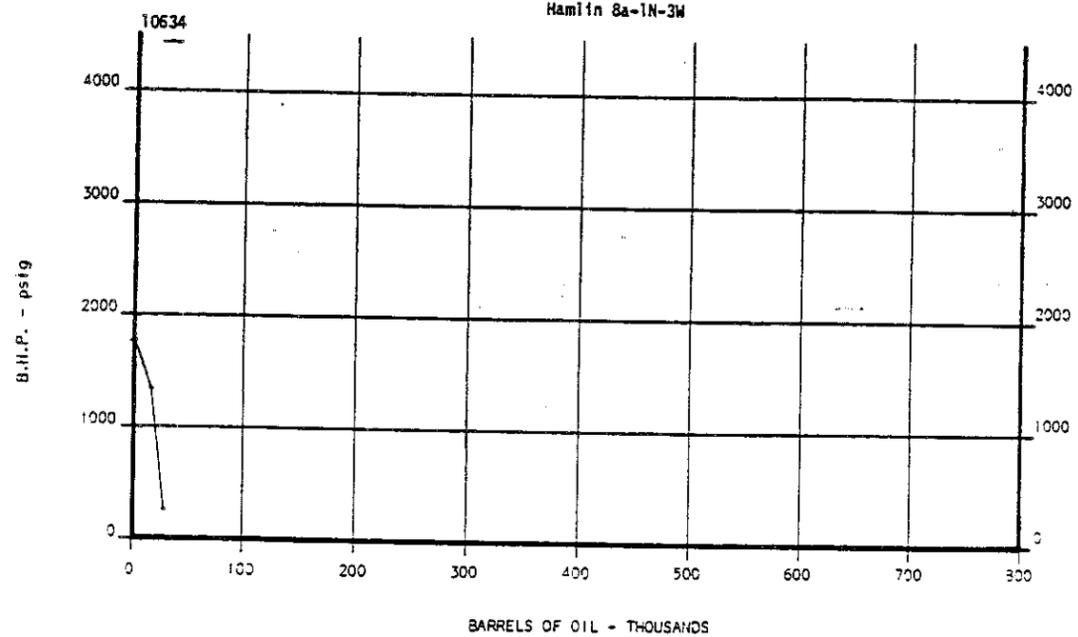
STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 8A-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-74 VIRGIN PRESSURE 1750 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. #	2788 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Miller Phinney #1	12-72	48.2	3700	1750		JANUARY 31, 1975				695	1390
Miller Phinney #1	12-72	N.A.	3700	1747		AUGUST 19, 1975				1310	1541
Miller Phinney #1	12-72	N.A.	3700	1681		JULY 5, 1977	1750	1-31-75	- 69	959	1492
Miller Phinney #1	12-72	N.A.	3700	1327		APRIL 24, 1979				1066	1178
Miller-Phinney #1	12-72	71	3702	287		MAY 9, 1983	1327	4-24-79	-1041	18	245

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION

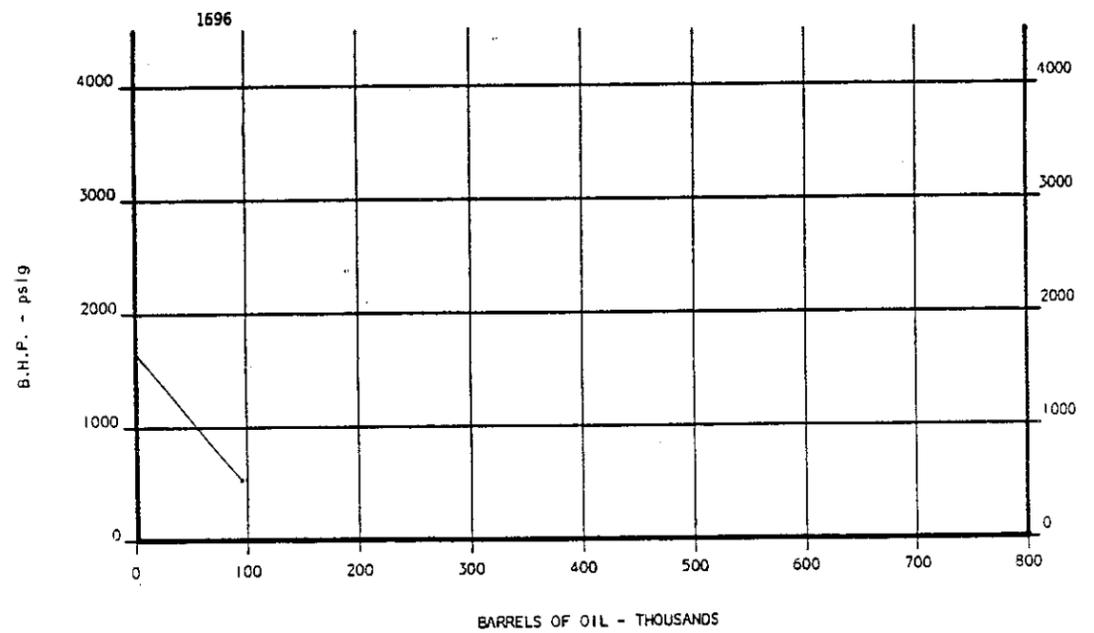


STATE OF MICHIGAN

FIELD NAME HAMLIN 8B-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 9-80 VIRGIN PRESSURE 1678 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. #	2782 FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Wilson Hargrave #1-8	11-80	22 days	3683	1678		OCTOBER 29, 1980				545	633
Wilson Hargrave #1-8	11-80	24	3683	498		APRIL 7, 1983	1678	10-29-80	-1180	257	448

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 9-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-79 VIRGIN PRESSURE 1770 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. #	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Hausch #1-4	5-79	N.A.	3728 TVD	1770	AUGUST .05	6, 1979	1770	INITIAL TEST	1565	1555	

STATE OF MICHIGAN
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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 9A-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-81 VIRGIN PRESSURE 1704* 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. #	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Smith Abbey #1-16	10-81	44	3694 TVD	1704	OCTOBER 3, .51Q	1981	1704	INITIAL TEST	1493	1491	

* Estimated

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

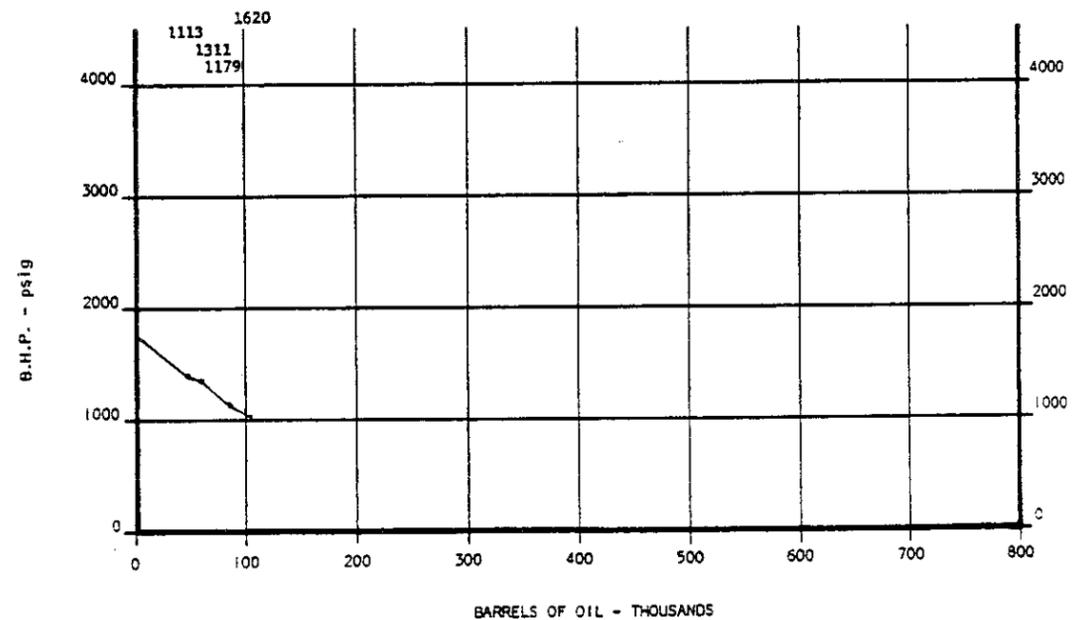
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 10-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-74 VIRGIN PRESSURE 1749 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. #	FEET	DATE OF PREV. PRESSURE		TUB.	CSG.
Clegg #1	2-74	70	3650	1742	FEBRUARY .320	26, 1974	1749	INITIAL TEST	681	686	
Woodruff #1	7-76	65	3652	1405	JULY 2, .524	1976	1405	2-26-74	- 344	121 421	
Clegg #1	2-74	24	3650	1385	JULY 8, .34	1976	1392	7-2-76	- 13	875 1131	
Woodruff #1	7-76	161	3643	1372	AUGUST 11, .50	1976	1377	7-8-76	- 15	210 465	
Woodruff #1	7-76	480	3643	1344	SEPTEMBER 21, .519	1976	1349	8-11-76	- 28	0 457	
Clegg #1	2-74	24	3650	1123	JULY 13, .040	1977	1124	9-21-76	-225	1011 1006	
Woodruff #1	7-76	N.A.	3643	1010	AUGUST 3, .519	1978	1020	7-13-77	- 104	Trace 0	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

HAMLIN 10-1N-3W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

FIELD NAME HAMLIN 11-IN-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 7-81 VIRGIN PRESSURE 1645 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Rogers #1-11	7-81	96	3662	1645	AUGUST 3, 1981 .466	1645	Initial	Test	561	783	

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 13-IN-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-77 VIRGIN PRESSURE 1774 NO. PRODUCING WELLS

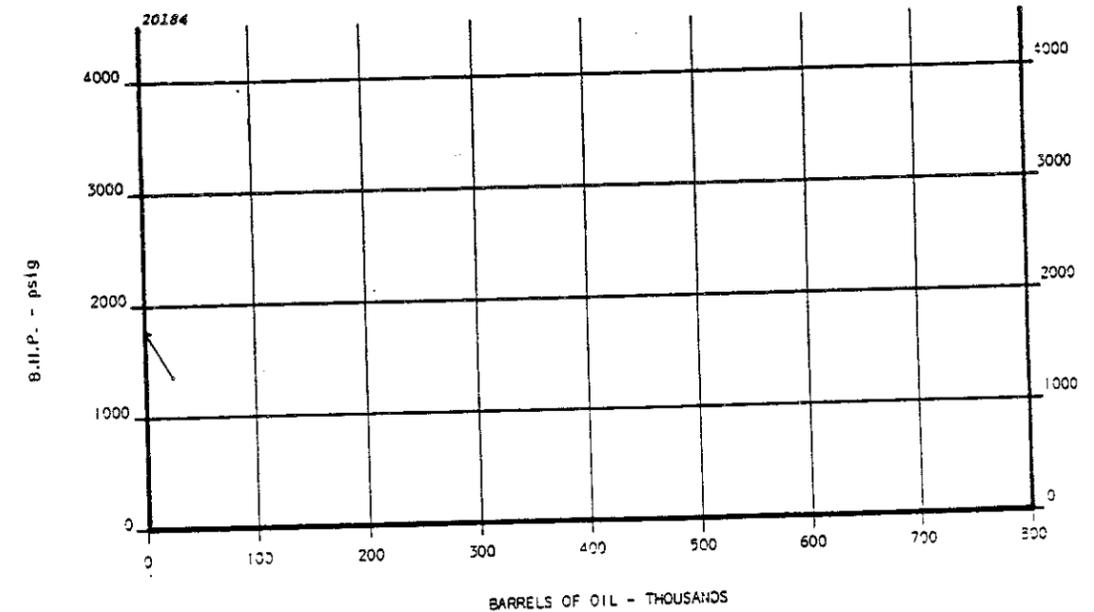
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Williams Teel 1-13	2-77	87	3743 TVD	1774	MARCH 1, 1977 340	1774	Initial	Test	1385	1534	
Williams Teel 1-13	2-77	24	3740 TVD	1723	OCTOBER 11, 1978 .06	1723	1774	3-1-77	- 51	1514 1500	
Williams Teel 1-13	2-77	24	3740 TVD	1661	JUNE 1, 1979 .26	1661	1723	10-11-78	- 62	1514 1500	
Williams Teel 1-13	2-77	N.A.	3740 TVD	1527	JANUARY 4, 1980 .309	1528	NOT USED	IN CALCULATIONS		1342 1392	
Williams Teel 1-13	2-77	96	3740 TVD	1578	MARCH 26, 1980 .049	1578	1661	6-1-79	- 83	1392 1390	
Williams Teel 1-13	2-77	48	3514 TVD	1428	APRIL 3, 1981 .071	1444	1578	3-26-80	- 134	1270 1270	
Williams Teel 1-13	2-77	NA	3514 TVD	1339	AUGUST 5, 1982 .031	1346	1444	4-3-81	-98	1201 1201	

STATE OF MICHIGAN

FIELD NAME HAMLIN 11A-IN-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 7-81 VIRGIN PRESSURE 1519 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Rogers #2-11	7-81	NA	3658	1519	AUGUST 12, 1981 .410	1519	INITIAL	TEST	207	1277	

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
HAMLIN 13-IN-3W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 15-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-79 VIRGIN PRESSURE 1732 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. # 2700	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Lawrence Tomlin	1-15 2-79	68	3622	1732		MARCH 1, 1979				1531	1533
					.04	1732		INITIAL TEST			
Lawrence Tomlin	1-15 2-79	N.A.	3622	1310		AUGUST 13, 1980			- 422	1164	1163
					.04	1310		3-1-79			
Lawrence Tomlin	1-15 2-79	48	3622	744		JULY 23, 1981			- 566	633	605
					.520	744		8-13-80			
Lawrence Tomlin	1-15 2-79	N.A.	3622	604		JULY 21, 1982			- 140	3	95
					.400	604		7-23-81			

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DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 22-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-78 VIRGIN PRESSURE 1680 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. # 2605	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Hoffman #1-22	5-78	.5	3531	1680		JUNE 22, 1978				1493	1497
					.06	1680		INITIAL TEST			
Hoffman #1-22	5-78	N.A.	3531	1191		APRIL 24, 1979			- 489	1068	1080
					.03	1191		6-22-78			

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 23A-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-76 VIRGIN PRESSURE 1705 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. # 2689	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Feasel-Swank #1	8-76	N.A.	3641	1702		AUGUST 23, 1976				1501	1497
					.083	1705		INITIAL TEST			
Feasel-Swank #1	8-76	26	3641	1035		JULY 13, 1977			- 670	924	924
					.020	1035		8-23-76			
Feasel-Swank #1	8-76	N.A.	3641	758		AUGUST 23, 1978			- 277	592	674
					.531	758		7-13-77			
Feasel-Swank #1	8-76	N.A.	3641	755		AUGUST 30, 1979			- 3	673	677
					.250	755		8-23-78			
Feasel-Swank #1	8-76	N.A.	3641	540		AUGUST 13, 1980				485	486
					.167	545		NOT USED IN CALCULATIONS			
Feasel-Swank #1	8-76	48	3641	495		JULY 23, 1981			- 244	30	143
					.50	511		8-30-79			
Feasel-Swank #1	8-76	N.A.	3632	447		JULY 15, 1982			- 60	78	399
					.467	451		7-23-81			

STATE OF MICHIGAN

FIELD NAME WALTON 34-1N-5W COUNTY EATON TOWNSHIP WALTON DATE OF TESTS _____
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 10-75 VIRGIN PRESSURE 1496 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. # 2344	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Mott #1-34	10-75	--	3324	1496		OCTOBER 17, 1975				1330	1347
					.10*	1496		INITIAL REPORTED TEST			

* = Estimated

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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME HAMLIN 22a-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-79 VIRGIN PRESSURE 1690 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. @ CURRENT PRESS.	2643 PREVIOUS PRESS.	FEET DATE OF PREV. PRESSURE		TUB.	CSG.
Pierpont Unit #1-22	1-79	N.A.	3596	1690	.057	1690	INITIAL TEST			1500	1500
Pierpont Unit 1-22	1-79	72	3596	1108	.040	1108	1690	1-29-79	- 582	992	999

INGHAM

STATE OF MICHIGAN

FIELD NAME HAMLIN 23-1N-3W COUNTY EATON TOWNSHIP HAMLIN DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 6-74 VIRGIN PRESSURE 1729 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. @ CURRENT PRESS.	2720 PREVIOUS PRESS.	FEET DATE OF PREV. PRESSURE		TUB.	CSG.
Swank #1	6-74	70	3662	1729	.177	1729	INITIAL TEST			1521	1523
Swank #1	6-74	24	3662	801	.048	802	1729	6-21-74	-927	719	731
Swank #1	6-74	24	3662	612	.032	612	802	12-1-76	-290	553	561
Swank #1	6-74	NA	3662	371	.032	371	612	12-8-77	-241	336	340
Swank #1	6-74	NA	3662	296	.016	296	371	10-11-78	-75	297	297
Swank #1	6-74	NA	3662	281	.009	281	296	8-30-79	-15		
Swank #1	6-74	NA	3662	215	.016	215	281	7-23-81	-66	193	200

FIELD NAME AURELIUS 24-2N-2W COUNTY INGHAM TOWNSHIP AURELIUS DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 3-79 VIRGIN PRESSURE 1800* 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. # 3006	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Akers #1	3-79	3 days	3959	1164	MARCH 13, 1979 .306	1164		INITIAL TEST		1015 553

* = Estimated

STATE OF MICHIGAN
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BOTTOM-HOLE PRESSURE TESTS

FIELD NAME AURELIUS 24a-2N-2W COUNTY INGHAM TOWNSHIP AURELIUS DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 12-79 VIRGIN PRESSURE 1898 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. # 3057	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Lyon #1-24	12-79	N.A.	4010	1898	DECEMBER 12, 1979 .069	1898		INITIAL TEST		1628 1628

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DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME AURELIUS 26-2N-2W COUNTY INGHAM TOWNSHIP AURELIUS DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 10-31-74 VIRGIN PRESSURE 1886 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. @ 3008 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
J. Edgar #2	10-74	240	4004	1876	NOVEMBER 11, 1974 .066	1876		INITIAL TEST		
Couch #1	11-74	N.A.	4019	1887	DECEMBER 10, 1974 .1378	1886		INITIAL TEST		
Couch #1	11-74	72	4009	1279	AUGUST 2, 1976 .049	1279	1886	12-10-74	- 607	1126 1128

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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME AURELIUS 35-2N-2W COUNTY INGHAM TOWNSHIP AURELIUS DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-27-71 VIRGIN PRESSURE 1855 NO. PRODUCING WELLS

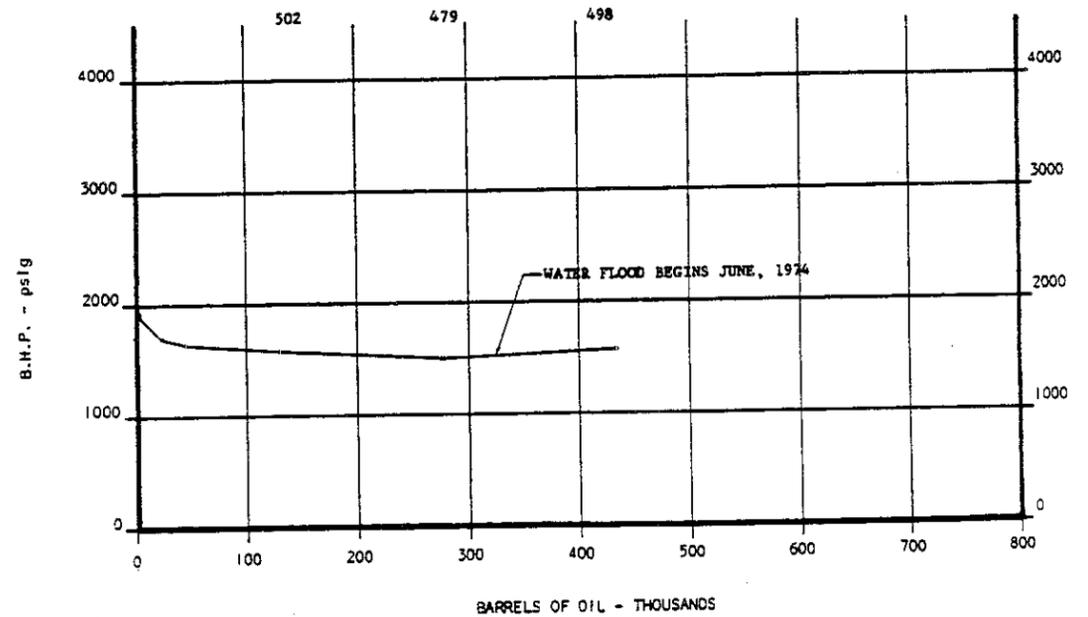
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG
						P.S.I. @ 3003 FEET	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Hawkins Bros. #1	12-2-71	14.5	3987	1855	DECEMBER 18, 1971 0.322	1855		INITIAL TEST		
J. Edgar #1	1-29-72	114	3998	1814	FEBRUARY 14, 1972 0.322	1815	1855	12-18-71	- 42	
Hawkins Bros. #1	12-2-71	71	3987	1813	MARCH 1, 1972 0.325	1813	1813	2-14-72	0	
Sanders #1	3-17-72	14.7	3968	1667	APRIL 1, 1972 0.3213	1672	1813	3-1-72	- 141	
Sanders #1	3-17-72	63.5	3980	1639	MAY 28 & 29, 1972 0.319	1640				
Lawson #1	5-3-72	86.2	3974	1623	0.324	1624				
					AVERAGE	1632	1672	4-11-72	- 40	
Sanders #1	3-17-72	93	3980	1575	DECEMBER 26, 1972 0.320	1576				
Hawkins #1	2-2-71	91	3900	1546	0.317	1574				
					AVERAGE	1575	1632	5-28-72	- 52	
Sanders #1	3-17-72	72	3968	1494	DECEMBER 26, 1973 .3125	1498				
Hawkins #1	12-2-71	72	3900	1475	.3180	1502				
					AVERAGE	1500	1575	12-26-72	- 75	

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	AURELIUS 35-2N-2W PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG	
					FLUID GRADIENT LOWER FT. 100	P.S.I. @ 3003 FEET	PREVIOUS PRESS. DATE OF PREV. PRESSURE			
WATER INJECTION BEGINS JUNE 1974										
Sanders #1	3-72	74	3968	1574	NOVEMBER 11, 1974 .3155 1518 .3140 1590 AVERAGE 1584			1500	12-26-73	+ 84
Hawkins #1	12-71	73	3900	1563						
Sanders #1	3-72	Computer Report	3968	1812	SEPTEMBER 30, 1976 N.A. 1816			1500	11-11-74	+ 316
Sanders #1	3-72	68	3968	1704	OCTOBER 31, 1971 .50* 1711					75 472

* Estimated

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
AURELIUS 35-2N-2W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

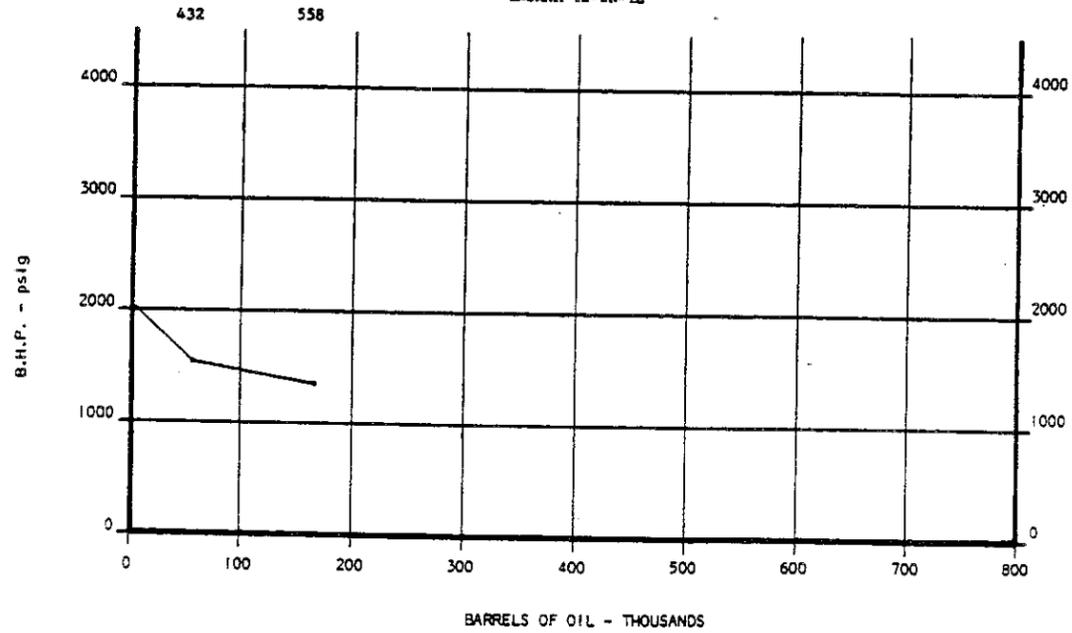
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME INGHAM 12-2N-1E COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 7-7-73 VIRGIN PRESSURE 2050* 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. # 3287	FEET	DATE OF PREV. PRESSURE		TUB. CSG	TUB. CSG
Scripser #1 Daman #1	7-73	72	4225	1550	.5489	DECEMBER 6, 1974			- 497	195	700
	7-73	72	4165	1536	.3194	1550				385	1246
					AVERAGE	1553	2050*	7-73			
Daman #1	7-73	24	4165	1341	.333	AUGUST 21, 1975			- 193	47	0
						1553	12-6-74				

* Estimated
Approx. 57,200 Bbls. production at the time of these tests

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
INGHAM 12-2N-1E



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

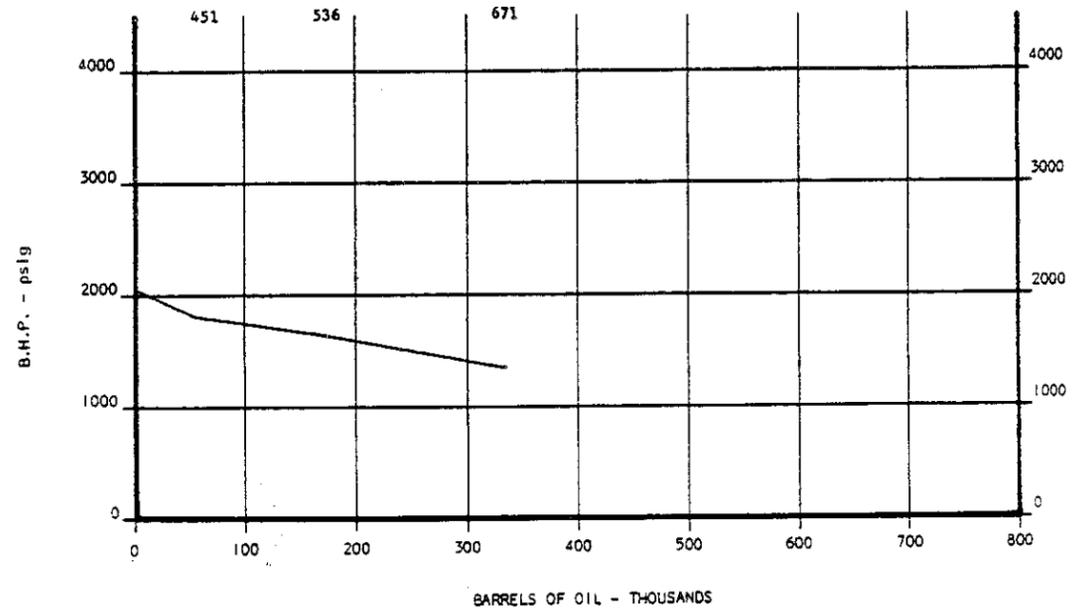
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME INGHAM 13-2N-1E COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-8-72 VIRGIN PRESSURE 2048 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. # 3274	FEET	DATE OF PREV. PRESSURE		TUB. CSG	TUB. CSG		
Anderson #1	11-8-72	90	4200	2048	.313	NOVEMBER 20, 1972			- 210	2048	INITIAL TEST	941	
						1927							
					AVERAGE	1838	2048	11-20-72					
Anderson #1	11-8-72	72	4200	1927	.7405	DECEMBER 6, 1974			- 207	1631	1838	365	1307
						1782							
Kinne-Anderson #1	6-74	72	4175	1782	.3371	1794					485	840	
Kinne #1	11-73	72	4170	1798	.3212	1809					361	602	
Anderson Unit #1	11-73	72	4175	1813	.3189	1823					652	1173	
					AVERAGE	1838	2048	11-20-72			965	1114	
Anderson Unit #1	11-73	24	4174	1620	.32	SEPTEMBER 16, 1975			- 266	1631	1838	365	1307
						1373							
					AVERAGE	1365	1631	9-16-75			203	1142	
Anderson Unit #1	11-73	72	4173	1373	.32	1384					762	1140	
Kinne #1	11-73	72	4168	1337	.327	1346							

Waterflood injection begins March, 1980.

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
INGHAM 13-2N-1E



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME INGHAM 25-2N-1E COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 7-26-73 VIRGIN PRESSURE 2000* 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. #	3113 FEET	DATE OF PREV. PRESSURE		TUB.	CSG
Ray Heaton Unit #1	5-22-74	72	4095	1463	JANUARY 13, 1975 .5366	1463				292	841
L. Townsend #1	7-26-73	74	4133	1403.4	.3015 AVERAGE 1426	1389	2000*	7-73	- 574	411	867
L. Townsend #1	7-73	24.1	4133	1289	SEPTEMBER 25, 1975 .32	1275	1426	1-13-75	- 151	271	822
L. J. Galley #1	5-74	72	4099	1278	JULY 9, 1976 .436	1268	1275	9-25-75	- 7		

* Estimate. Approximately 54,000 bbls. production at the time of these tests

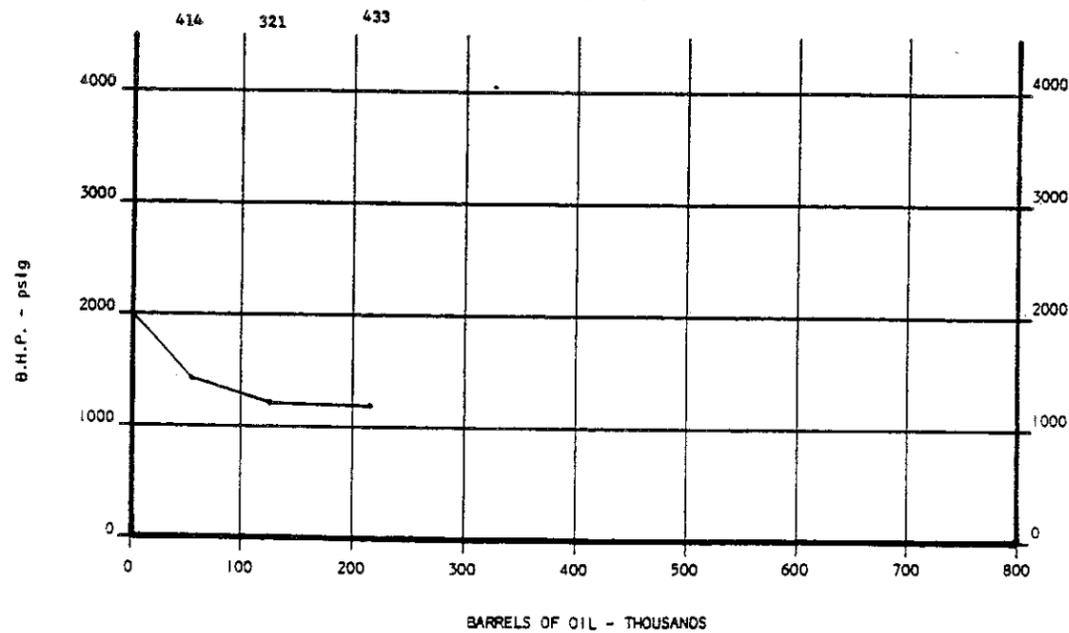
STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 10-IN-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS
PRODUCING FORMATION SALINA NIAGARAN DISCOVERY DATE 3-25-71 VIRGIN PRESSURE 1812 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. #	2880 FEET	DATE OF PREV. PRESSURE		TUB.	CSG
L. Davis #1	3-71	24 +	3811	1872	MARCH, 1971 .441	1812					
L. Davis #2	4-71	10	3811	1795	APRIL 1971 .320 Est.	1797	1812	3-71	- 15		
Browers #1	5-71	?	3809	1805	MAY 1971 .320 Est.	1807				1358	1530
Balzer #1	5-71	23	3839	1789	.320 Est. 1789 AVERAGE 1798	1798	1797	4-71	+ 1		
Browers #1	5-71	20	3809	1783	AUGUST 1971 .320	1785					
Scutt #1	8-71	14.5	3830	1782	.320 AVERAGE 1786	1786	1798	5-71	- 12		
Davis #1	3-71	24	3811	1774.1	SEPTEMBER 10, 1971 .307	1775				935	
Davis #2	4-71	32	3811	1773.2	.311	1776				1134	
Browers #1	5-71	74	3815	1774.5	.320	1775				1317	
Balzer #1	5-71	27	3839	1775	.444*	1773				756	
Scutt #1	8-71	34.5	3830	1776.7	.324	1781				521	675
Edgar #1	8-71	49.5	3847	1793.2	.329	1797				728	420
					AVERAGE 1780	1786	1786	8-71	- 6		
Brower #1	5-71	2.5	3815	1762	OCTOBER 1971 .320	1764				763	375
Davis #3	10-71	2	3815	1775	.385	1774					
Davis-Townsend #1	10-71	17.5	3809	1760	.340 AVERAGE 1767	1767	1780	9-10-71	- 13		

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
INGHAM 25-2N-1E



BOTTOM-HOLE PRESSURE TESTS - Page 2

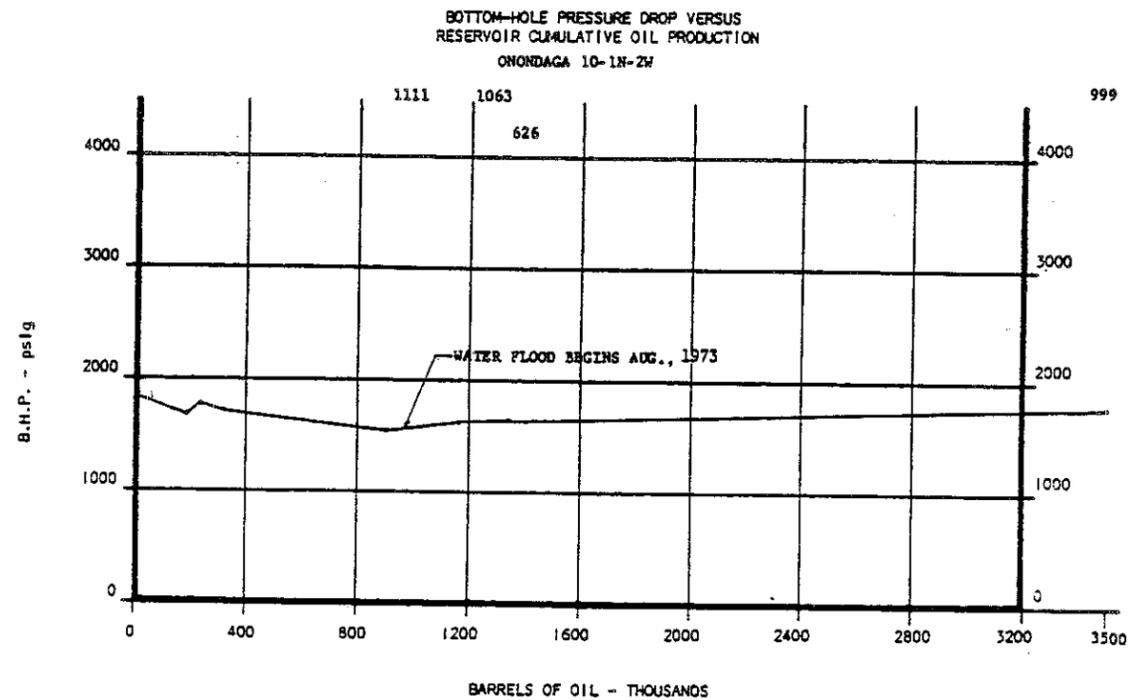
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. #	2880 FEET	DATE OF PREV. PRESSURE		TUB.	CSG
O'Dell Carmony #1	10-71	15.5	3805	1679	NOVEMBER 1971 .320	1685				1214	1150
Richard #1	11-71	16	3860	1702	.335 AVERAGE 1695	1705	1767	10-71	- 72		
O'Dell Carmony #1	10-71	87	3790	1715	DECEMBER 1971 .310	1726	1695	11-71	+ 31		
L. Davis #2	4-71	3	3811	1717	JANUARY 1972 .320 Est.	1719	1726	12-71	- 7		
A. Balzer #1	5-71	14 Days	3823	1727	FEBRUARY 14-26, 1972 .315	1732					
L. Davis #1	3-71	14 Days	3811	1725	.314	1725					
L. Davis #2	4-71	3 Days	3811	1730	.428	1733					
L. Davis #3	10-71	14 Days	3799	1723	.316	1728					
Davis Townsend #1	10-71	13 Days	3809	1725	.316	1726					
J. E. Edgar #1	9-71	14 Days	3847	1679	.328	1683					
T. Richards #1	11-71	14 Days	3860	1682	.324	1685					
C. Scutt #1	8-71	14 Days	3830	1720	.317 AVERAGE 1717	1723	1719	1-72	- 2		
Byrum #4	5-72	24 Hrs.	3848	1705	MARCH 29, 1972 .048	1705					
Edgar #1	9-71	30	3848	1666	.3302	1670					
Davis Townsend #1	10-71	23 Hrs.	3809	1706	.316	1705					
Browers #1	5-71	32 Hrs.	3815	1681	.470 AVERAGE 1690	1680	1717	2-72	- 27		
J. Edgar #1	8-71	74	3847	1490	JUNE 27, 1973 .327	1494					
L. Davis #2	4-71	1392	3700	1581	.320 AVERAGE 1556	1619	1690	3-29-72	- 134		

WATERFLOOD INJECTION BEGINS AUGUST 1973

REMARKS:

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	ONONDAGA 10-1N-2W			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CGG
					PRESSURES AT COMMON DATUM				
					FLUID GRADIENT LOWER FT. 100	P.S.I. @ 2880 FEET	DATE OF PREV. PRESSURE		
L. Davis #2 Browers #1	4-71	48	3700	1562	NOVEMBER 3, 1973			6-27-73	+ 46
	5-71	68	3817	1604	3215 1600 329 1604 AVERAGE 1602	1556			
Edgar #1 L. Davis #2 Scutt #1 Browers #1	8-71	19	3847	1567	MARCH 29, 1974			11-3-73	+ 32
	4-71	19	3811	1632	.330 1571 .323 1635 .323 1690 .320 1638				
	8-71	20	3830	1615					
	5-71	N.A.	3817	1638	AVERAGE 1634	1602			
Onondaga 10 Unit #2-2	7-76	72	3841	1817	.363 1809	NOT USED IN CALCULATIONS		1034	1399
Onondaga 10 Unit #17-5	7-76	72	3786	1778	.52 1789	1634	3-29-74	+ 155	805 1529
Edgar #1	8-71	48	3790	1677	NOVEMBER 29, 1976			928	1220
					30*	1698			
Byrum #4 O'Dell Carmony #1 Davis Townsend #1	5-72	72	3753	1500	APRIL 18, 1978			1333	1331
	10-71	72	3778	1515	.082 1508 .319 1529 .569 1667				
	10-71	72	3685	1594					
Onondaga Unit 10-2	3-77	70	2729	1248	JUNE 12, 1978			340	412
					.531 1814				

REMARKS:



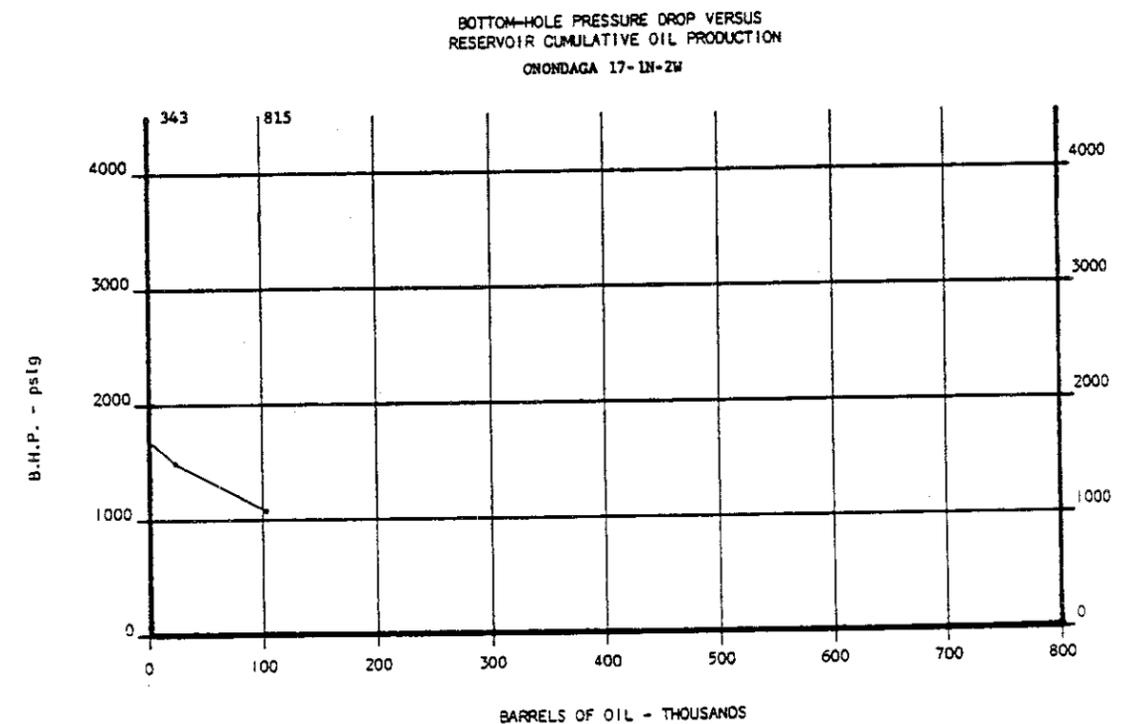
BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 17-1N-2W COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS

PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 6-26-73 VIRGIN PRESSURE 1700* NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
					FLUID GRADIENT LOWER FT. 100	P.S.I. @ 2677 FEET	DATE OF PREV. PRESSURE		TUB.	CGG
Trefry Unit #1	6-73	24	3645	1454	JANUARY 9, 1974* .342 1454	1700	6-73	- 246	1160	
Trefry Unit #1	6-73	73	3645	1049	FEBRUARY 3, 1975 .369 1049	1454	1-9-74	- 405	21 528	

* Estimate: Approximately 24,000 bbls. production at the time of this test.



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 17a-1N-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-23-75 VIRGIN PRESSURE 1725 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. @ 2741 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB. CSG.
Bucher Unit #2	10-75	Since Completion	3656	1725	JUNE 29 .387	1976 1725	Initial Test			485	1532
Bucher Unit #2	10-75	96	3656	1428	JANUARY 11, 1977 .326	1428	1725	6-29-76	- 297	1154	1280

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 17b-2N-1W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 6-78 VIRGIN PRESSURE 1703 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. @ 2785 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB. CSG.
Trefry Simot #1	6-78	46	3670	1703	JUNE 20, 1978 .30*	1703	INITIAL TEST			1352	1495

* Estimated

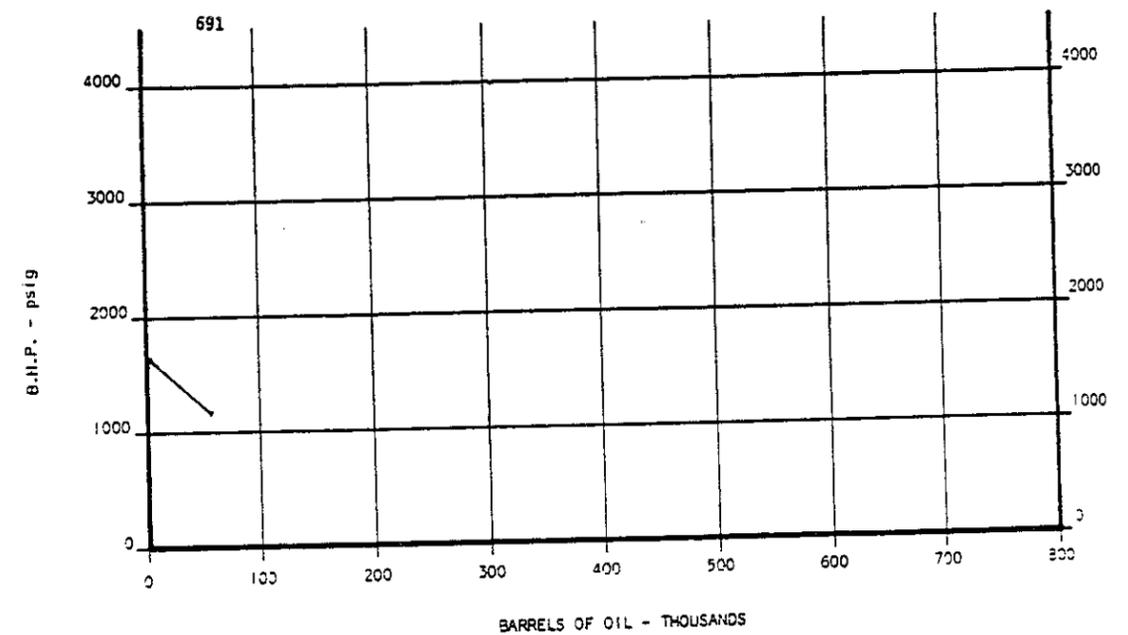
STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 18-1N-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-78 VIRGIN PRESSURE 1675 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. @ 2718 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB. CSG.
V.F.W. National Home 2-18	2-78	.5	3665	1675	MARCH 6, 1978 .337	1675	INITIAL TEST			561	314
V.F.W. 3-18	8-78	26 Days	3494	1546	AUGUST 31, 1978 .356	1601	1675	3-6-78	- 74	299	672
V.F.W. #2-18	2-78	N.A.	3665	1184	AUGUST 6, 1979 .40	1184	1601	8-21-78	- 417	605	914

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
Onondaga 18-1N-2W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 18a-1N-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-78 VIRGIN PRESSURE 1697 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2661 CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
VFW Miller 1-18	8-78	7 Days	3604	1697	AUGUST 21, 1978 .061	1697	INITIAL TEST			1512	1506

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 19-1N-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 5-81 VIRGIN PRESSURE 1568 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2642 CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Galleger-Colone #1-19	5-81	118.3	3598	1568	APRIL 13, 1981 .347	1568	INITIAL TEST			383	1195
Galleger-Colone #1-19	5-81	66.5	3598	656*	MAY 24, 1982 .510	656	NOT USED IN CALCULATIONS			3	300

* Incomplete Pressure Build-Up

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 20-1N-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-76 VIRGIN PRESSURE 1564 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2691 CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Camp Ingham Tretry #4 8-76	8-76	134	3570 TVD	1564	AUGUST 23, 1976 .539	1564	INITIAL TEST			525	557

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 20A-1N-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-79 VIRGIN PRESSURE 1612 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2647 CURRENT PRESS.	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		TUB.	CSG.
Carpenter Unit #1-20 8-79	8-79	N.A.	3554 TVD	1612	AUGUST 6, 1979 .350	1612	INITIAL TEST			329	934

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 21-1N-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS
(RESERVOIR A) WEST
PRODUCING FORMATION SALINA NIAGARAN DISCOVERY DATE 7-29-71 VIRGIN PRESSURE 1734 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. # 2725	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Comstock #1	7-71	19	3644	1734	AUGUST 1971 .320 Est.	1734		INITIAL TEST		546	
Kraft #1	9-71	15	3699	1733	SEPTEMBER 1971 .320 Est.	1728				932	
D. Bienz #1	9-71	17	3673	1739	.330	1734		1734	8-71	- 3	1345
Cox Heirs #1	10-71	6.5	3726	1705	NOVEMBER 1971 .330	1695		1731	9-71	- 36	675
Van Atter #1	12-71	14	3669	1658	JANUARY 1972 .383	1659		1695	11-71	- 36	611
D. Bienz #1	9-71	14 Days	3657	1669	FEBRUARY 16, 1972 .510	1669					1229
R. Comstock #1	7-71	14 Days	3644	1641	.338	1651					466
Cox Heirs #1	10-71	14 Days	3726	1661	.340	1651					592
L. Kraft #1	9-71	15 Days	3726	1679	.363	1664					1225
Van Atter #1	12-71	14 Days	3669	1639	.339	1660					553
Kraft Satterlee #1	1-72	17	3674	1705	.326	1702		1659	1-72	+ 7	1402
Barton Green #1	2-72	11	3665	1639	AVERAGE	1666		1666	2-72	- 27	988
					MARCH 1972 .335	1639		1666	2-72	- 27	988

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. # 2727	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
J. Rae Unit #1	5-72	3.5	3711	1564	JUNE, 1972 .339	1557				507	
Satterlee #1	6-72	40	3655	1568	.328	1574				673	
					Average	1566		1639	3-72	- 73	
Barton Green #1	2-72	72.2	3665	1522	OCTOBER 12-13, 1972 .333	1522				1049	
D. Bienz #1	9-71	72.4	3675	1539	.405	1531				1294	
P. L. Comstock #1	7-71	72.9	3644	1515	.330	1525				937	
Cox Heirs #1	10-71	73.7	3726	1530	.327	1521				487	
L. Kraft Unit #1	9-71	72.5	3684	1535	.329	1535				838	
Kraft Satterlee #1	1-72	72.4	3674	1584	.550	1569				412	
Rae Unit #1	5-72	72.3	3711	1526	.329	1519				599	
L. V. Satterlee #1	6-72	87.8	3587	1531	.324	1559				1165	
VanAtter #1	12-71	72	3600	1510	.540	1549				34	
					Average	1537		1566	6-72	- 29	
Collins Barton #2	2-73	80	3675	1563	May 29, 1973 .329	1561				1391	
Comstock #1	7-71	76	3644	1414	.349	1404				1267	
Kraft-Satterlee 1	1-72	144	3674	1485	.556	1470				1301	
Ritter #1	6-72	240	3600	1403	.055	1405				1254	
Satterlee #1	6-72	91	3570	1439	.337	1474				1294	
					Average	1462		1537	10-72	- 75	
Satterlee #1	6-72	192	3570	1100	NOVEMBER 4, 1974 .340	1135				881	
Comstock #1	7-71	72	3644	1126	.345	1136				1294	
Ritter #1	6-72	N.A.	3600	1061	.035	1062				877	
Collins Barton #2	2-73	192	3675	1023	.331	1025				959	
Kraft Satterlee 1	1-72	168	3674	1196	.327	1188				675	
					Average	1109		1462	5-73	- 353	1066
Comstock #1	7-71	24	3644	968	SEPTEMBER 15, 1975 .347	978		1109	11-74	- 131	608

REMARKS:

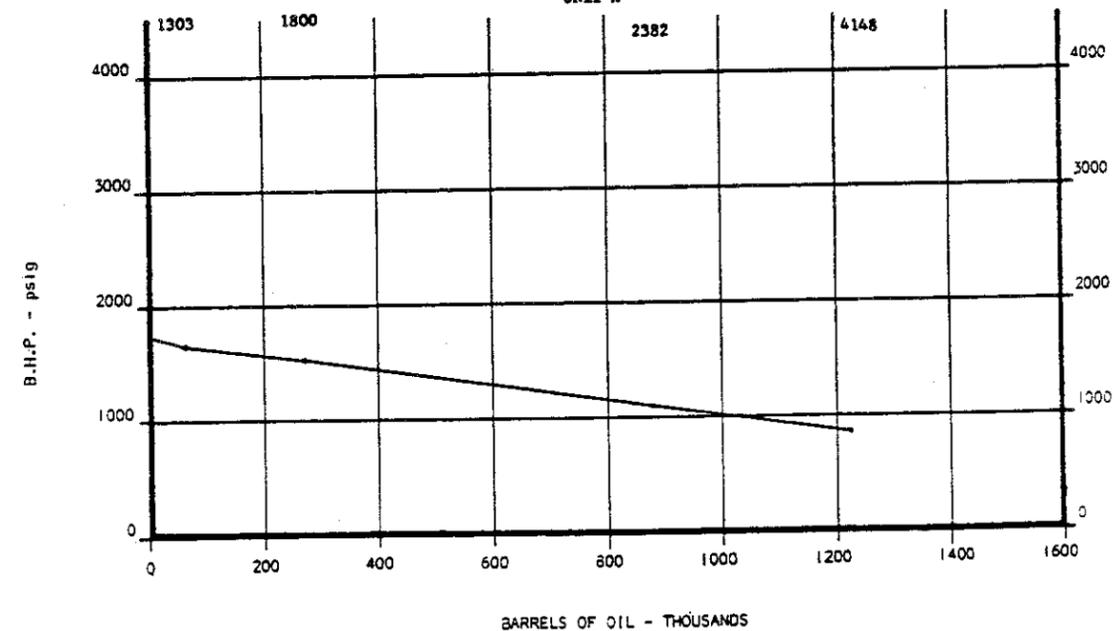
BOTTOM-HOLE PRESSURE TESTS - Page 3

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. # 2727	PREVIOUS PRESS.	DATE OF PREV. PRESSURE			
Collins Barton #2	2-73	72	3675	446	JULY 23, 1976 .273	451		NOT USED	IN AVERAGE	390	
Kraft Satterlee #1	1-72	72	3674	911	.028	863				770	
Ritter #1	6-72	72	3597	862	.177	844				807	
L. V. Satterlee #1	6-72	72	3548	822	Average	869		978	9-75	723	
										777	
										552	
										747	
L.C. Kraft #1	9-71	72	3684	913	NOVEMBER 19, 1984 20*	913		869	7-23-76	+44	4

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION

ONONDAGA 21-1N-2W (WEST)
UNIT A



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ONONDAGA 21-1N-2W COUNTY INGHAM TOWNSHIP ONONDAGA DATE OF TESTS
(RESERVOIR B) EAST
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-72 VIRGIN PRESSURE 1670* NO. PRODUCING WELLS

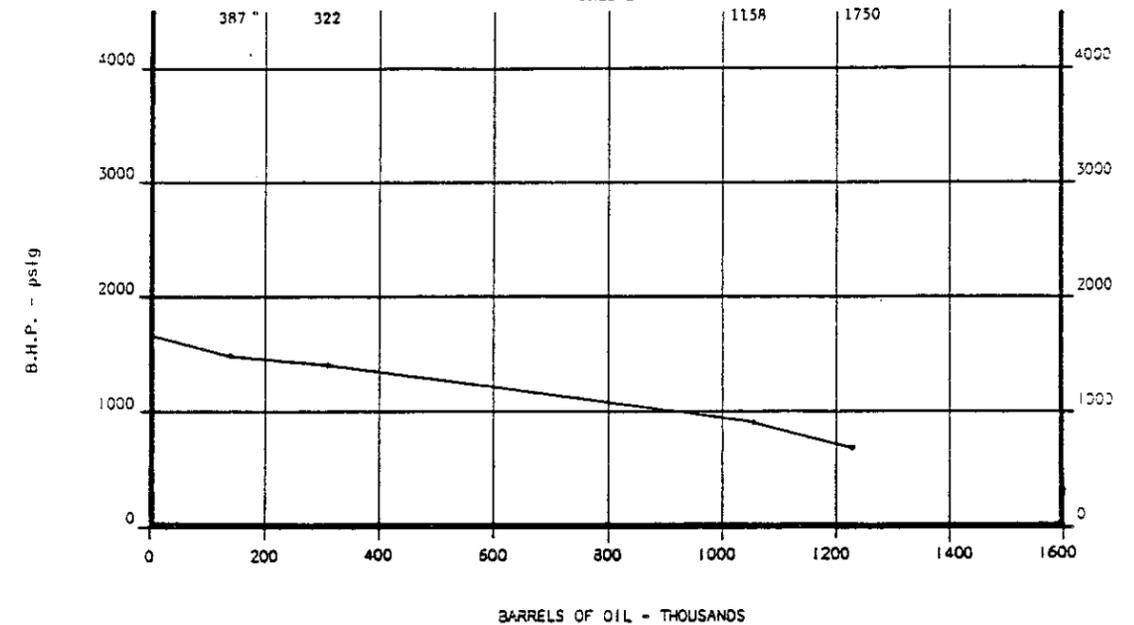
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
						P.S.I. @ 2775 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.
Ferris #1	3-72	8	3700	1656	.335	APRIL, 1972 1644	1670	3-72	- 26	614	
J. A. Rae #1	6-72	1	3724	1604	.345	JUNE, 1972 1588	1644	4-72	- 56	519	
J. A. Rae #2	7-72	9.5	3674	1551	.340	AUGUST, 1972 1550	1588	6-72	- 38	507	
R. A. Abbott #1	6-72	72.5	3689	1526	.331	OCTOBER 12-13, 1972 1524				433	
W. D. Byrum	8-72	88.6	3685	1501	.337	1494				394	
Ferris #1	3-72	89.5	3700	1510	.330	1498				487	
J. A. Rae #1	6-72	74.0	3684	1528	.334	1526				44	
J. A. Rae #2	7-72	73.1	3674	1514	.335	1513				474	
* Unitization Report					AVERAGE	1511	1550	8-72	- 39		
Ferris #1	3-72	79	3700	1395	.337	MAY 29, 1973 1407				80	
J. A. Rae #1	6-72	78	3600	1371	.340	1398				1254	
					AVERAGE	1403	1511	10-72	- 108		
J. A. Rae #1	6-72	72	3600	1023	.340	NOVEMBER 4, 1974 1051				606	952
Ferris #1	3-72	96	3700	1146	.335	1134				296	0
					AVERAGE	1093	1403	5-73	- 310		
J. A. Rae #2	6-72	24	3674	916	.027	SEPTEMBER 15, 1975 916	1093	11-74	- 177	824	830

BOTTOM-HOLE PRESSURE TESTS - Page 2

ONONDAGA 21-1N-2W (RESERVOIR B) EAST												
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. @ 2727 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.	CSG.
J. A. Rae #1	6-72	72	3621	643	.144	JULY 23, 1976 653				582	583	
Byrum Unit #1	8-72	72	3500	706	.016	709				643	643	
					AVERAGE	681	916	9-75	- 235			
WATERFLOOD INJECTION BEGINS SEPTEMBER, 1977												

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION

ONONDAGA 21-1N-2W (EAST)
UNIT B



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME STOCKBRIDGE 6-1N-2E COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 6-7-72 VIRGIN PRESSURE 1805 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. @ 2874 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	TUB.
Barber Kopicko Unit	6-72	N.A.	3900	1781	.528	DECEMBER 14, 1973 1805					
Nora Phelps 1-6	7-74	72	3950	1787	.340	AUGUST 8, 1974 1787				601	725
Nora Phelps 1-6	7-74	121	3950	1653	.383	OCTOBER 23, 1974 1653				288	580
Freer 1-5	11-74	546	3941	1754	.331	DECEMBER 5, 1974 1753	1805	12-14-73	- 52	558	347

* MAY NOT HAVE BEEN BUILT UP

STATE OF MICHIGAN
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GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME STOCKBRIDGE 7-1N-2E COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-4-74 VIRGIN PRESSURE 1754 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. # 2944	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Fritz 1-7	11-74	30 Days	3911	1754	DECEMBER 5, 1974 N.A.	1754		INITIAL TEST	674	379

STATE OF MICHIGAN

FIELD NAME STOCKBRIDGE 7A-1N-2E COUNTY INGHAM TOWNSHIP STOCKBRIDGE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 1982 VIRGIN PRESSURE 1480 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. # 2981	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Nightingale #2-7	5-83	24	3951	1480	JULY 27, 1983 .306	1480		INITIAL REPORTED TEST	1003	1075

STATE OF MICHIGAN

FIELD NAME STOCKBRIDGE 7-1N-2E COUNTY INGHAM TOWNSHIP STOCKBRIDGE DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 9-82 VIRGIN PRESSURE 1572 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. # 2979	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Barth #1-7A	9-82	NA	3930 TVD	1572	SEPTEMBER 15, 1982 .549	1572		INITIAL TEST		1294 1370

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME VEVAY 8-2N-1W COUNTY INGHAM TOWNSHIP VEVAY DATE OF TESTS
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 1-82 VIRGIN PRESSURE 1250 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. # 3084	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Gilbert-St. Vevay #1-8	1-82	N.A.	4000	1850	JULY 20, 1982 .060	1850		INITIAL TEST		1604
Gilbert-St. Vevay #1-8	1-82	NA	4070	1805	OCTOBER 6, 1982 .129	1796	1850	7-20-82	-54	1553

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME VEVAY 16-2N-1W COUNTY INGHAM TOWNSHIP VEVAY DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-9-70 VIRGIN PRESSURE 1955 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. # 3245	FEET	DATE OF PREV. PRESSURE		
Brown #1	11-70	12	4165	1953		NOVEMBER, 1970 .28		INITIAL TEST		1062 Pkr.
Brown #1	11-70	3	3850	1870		JANUARY, 1971 .280 est. 1960		1955 NOT USED IN CALCULATION		
Capital Ex. #1	8-71	44.5	4183	1931		AUGUST, 1971 .380	1929	1955 11-70	- 26	1077
Brown #1	11-70	24	4172	1891		NOVEMBER, 1971 .280	1891			1600 1000
Capital Ex. #1	8-71	24	4180	1891		.285	1892			
						AVERAGE	1892	1929 8-71	- 37	
Brown #1	11-70	20 Days	4100	1864		FEBRUARY, 1972 .285	1884			819
Capital Ex. #1	8-71	17 Days	4183	1884		.292	1883			1162
						AVERAGE	1884	1892 11-71	- 8	
Brown #1	11-70	72	4100	1821		SEPTEMBER 23, 1972 .2740	1841			
Capital Ex. #1	8-71	73	4182	1847		.2767	1846			
						AVERAGE	1844	1884 2-72	- 40	
Brown #1	11-70	336	4172	1796		JUNE 6, 1973 .270	1796	1844 9-72	- 48	1592

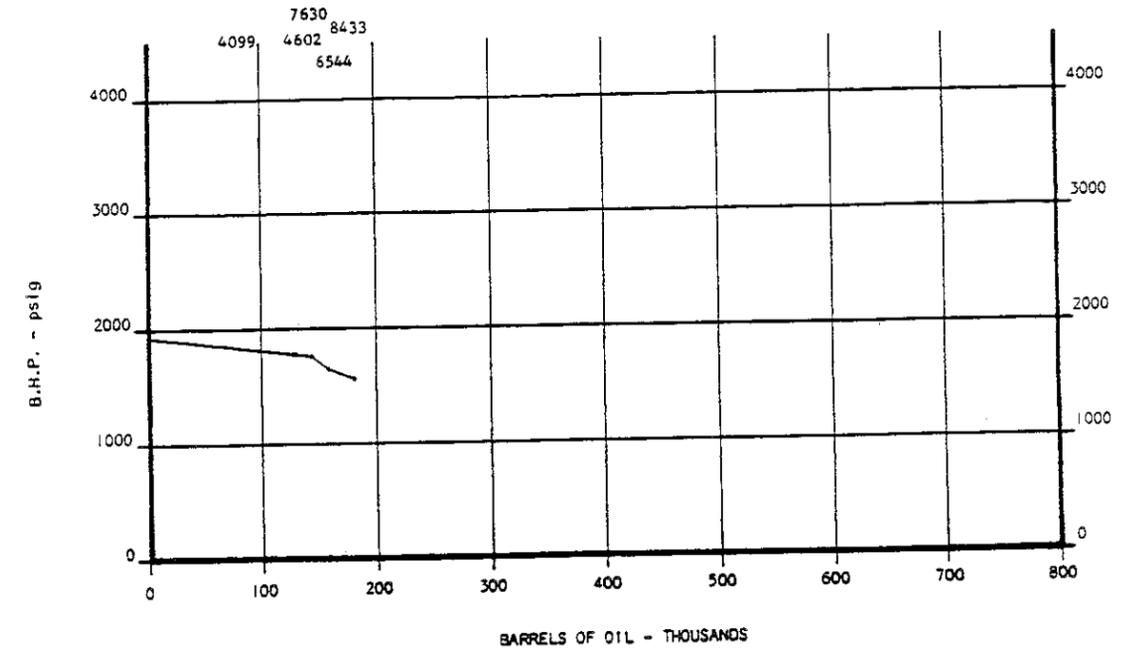
BOTTOM-HOLE PRESSURE TESTS - Page 2

VEVAY 16-2N-1W

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. # 3245	FEET	DATE OF PREV. PRESSURE		
Brown #1	11-70	76	4185	1711		JANUARY 6, 1975 .259	1708	1796		1334 1530
Capital Ex. #1	8-71	78	4180	1707		.258	1706			1184 1426
						AVERAGE	1707	1796 6-73	- 89	
BROWN #1	11-70	24	4185	1676		SEPTEMBER 24, 1975 .13	1674	1707	1-6-75	- 33 1451 1499
Brown #1	11-70	72	4188	1642		JULY 30, 1976 .188	1640	1674	9-24-75	- 34 1412 1461
Capitol Ex. #1	8-71	72	4180	1559		APRIL 27, 1978 .294	1558	1640	7-30-76	- 82 1180 1301

REMARKS:

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
VEVAY 16-2N-1W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME VEVAY 17-2N-1W COUNTY INGHAM TOWNSHIP VEVAY DATE OF TESTS
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 11-8-72 VIRGIN PRESSURE 1986* 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. # 3249	FEET	DATE OF PREV. PRESSURE		
Frederick #1	11-72	24	4168	1958		NOVEMBER 3, 1972 .45	1958		INITIAL TEST	950 1380
Frederick #1	11-72	17 MOS	4157	1983		JULY 19, 1974 .317	1986*	1958	11-3-72	+ 28 838 695
						* APPROX. 6000 Bbls. produced at the time of this test				
Sandberg #2	3-74	96	4064 TVD	1951		SEPTEMBER 3, 1974 .290	1978	1986	7-19-74	- 8 779 984
Sandberg #1	10-73	76	4120	1892		MAY 7, 1975 .380	1913			1575 1620
Sandberg #2	3-74	96	4084 TVD	1892		.300	1914			981 1591
Frederick #1	11-72	72	4157	1907		.54	1909			1207 1645
						AVERAGE	1912	1978	9-3-74	- 66
Sandberg #2	3-74	168	4098 TVD	1808		SEPTEMBER 1, 1976 .52	1838	1912	5-7-75	- 74 598 1580
Sandberg #1	10-73	48	4086	1778		DECEMBER 2, 1976 .300	1802			1380 1558
Sandberg #2	3-74	48	4098 TVD	1792		.510	1827			805 1594
Frederick #1	11-72	48	4098	1769		.700	1809			498 1546
						AVERAGE	1812	1838	9-1-76	- 26

VEVAY 17-2N-1W

OPERATOR, LEASE AND WELL NUMBER	WELL COMP DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES	
					FLUID GRADIENT LOWER FT. 100	P.S.I. # 3249	FEET		DATE OF PREV PRESSURE	TUB. CGG
SEPTEMBER 9, 1977										
Sandberg #1	10-73	24	4075	1711	.335	1738			1232	1508
Sandberg #2	3-74	24	4030 TVD	1703	.500	1767			1013	1550
Frederick #1	11-72	24	4078	1726	.300	1750			1420	1424
AVERAGE					1752	1812	12-2-76	- 60		
SEPTEMBER 14, 1978										
Sandberg #1	10-73	24	4075	1663	.333	1693			1295	1469
Sandberg #2	3-74	24	4030 TVD	1618	.297	1658			846	1468
Frederick #1	11-72	24	4098	1681	.350	1706			1389	1394
AVERAGE					1686	1752	9-9-77	- 66		
OCTOBER 17, 1979										
Sandberg #1	10-73	N.A.	4075	1633	.33	1663			1282	1440
Sandberg #2	3-74	N.A.	4030 TVD	1632	.522	1703			1463	863
Frederick #1	11-72	N.A.	4098	1638	.55	1677			924	1373
AVERAGE					1681	1686	9-14-78	- 5		
AUGUST 20, 1980										
Sandberg #1	10-73	N.A.	4120	1581	.30	1595			1207	1419
Sandberg #2	3-74	N.A.	4030 TVD	1608	.552	1679			995	1413
Frederick #1	11-72	N.A.	4098	1624	.30	1645			1350	1364
AVERAGE					1640	1681	10-17-79	- 41		
OCTOBER 12, 1981										
Frederick #1	11-72	N.A.	4150	1573	.550	1583			1115	1346
Sandberg #2	3-74	N.A.	4030 TVD	1546	.523	1617			807	1369
AVG					1600	1640	8-20-80	- 40		

REMARKS:

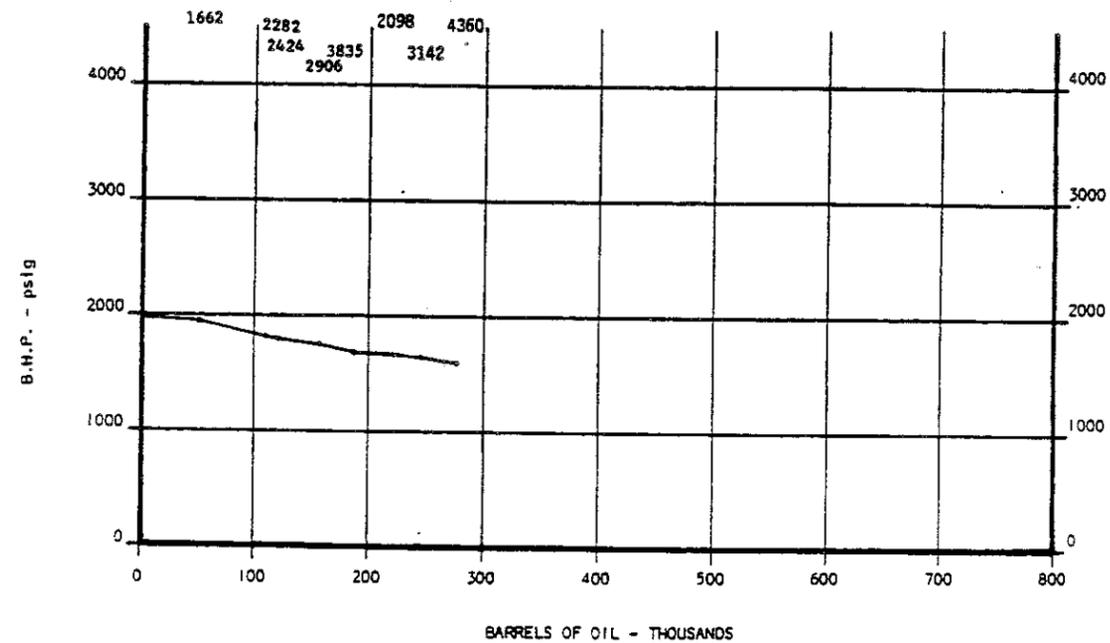
STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

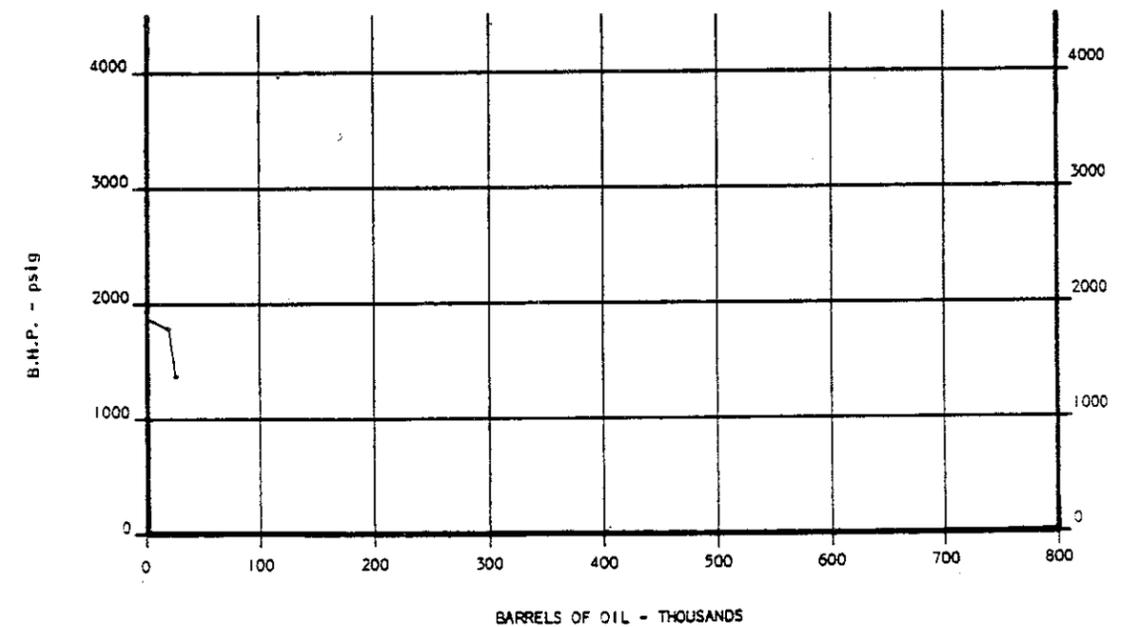
FIELD NAME VEVAY 19a-2N-1W COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS _____
 PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 2-71 VIRGIN PRESSURE 1871* NO. PRODUCING WELLS _____

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. # 3012	FEET	DATE OF PREV. PRESSURE		TUB. CGG	CSG
A. Imley #1	2-71	75	3936	1846	FEBRUARY 16, 1971 .089	1846					1599
E. Miller #1	4-71	72	3942	1871	MAY 1971 .039**	1871*	1846	2-10-71	+ 25		
* APPROX. 4200 Bbls. PRODUCED FROM FIELD AT TIME OF TEST											
A. Imley #1	2-71	25	3948	1755	MAY 1972 .089	1754	1871	5-71	- 117		
E. Miller #1	4-71	69	3800	1434	SEPTEMBER 30, 1972 .039	1439					1277
A. Imley #1	2-71	69	3902	1303	.059	1305	1754	5-72	- 382		1155
AVERAGE					1372						
** ASSUMED											

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
VEVAY 17-2N-1W



BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
VEVAY 19a-2N-1W



STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME VEVAY 19B-2N-1W COUNTY INGHAM TOWNSHIP VEVAY DATE OF TESTS _____
PRODUCING FORMATION SALINA NIAGARAN DISCOVERY DATE 5-72 VIRGIN PRESSURE 1927 NO. PRODUCING WELLS _____

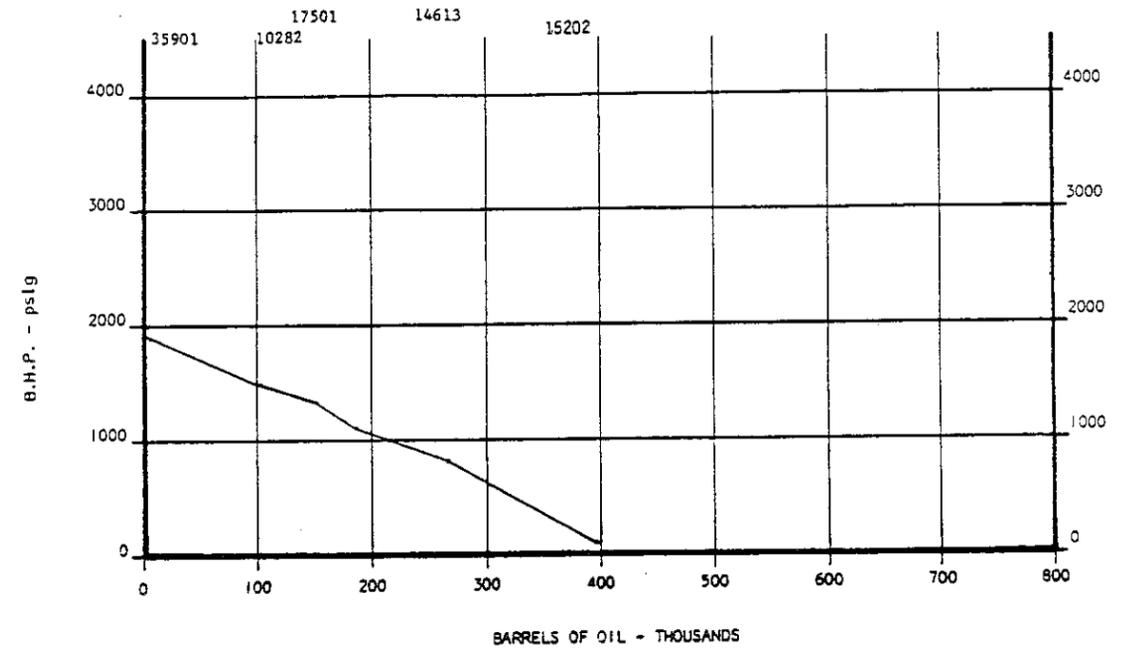
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER FT. 100	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG	
						P.S.I. @ 3134 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG
Dart #1	5-72	118	4050	1927		MAY 31, 1972 .372					1180
Dart #1	5-72	12	4055	1913		JUNE 6, 1972 .304	1911	1927	5-31-72	- 16	
Kranz Sr. Unit 1	6-72	65	4040	1918		JULY 17, 1972 .303	1927	1911	6-6-72	+ 16	1290 1525
L. Carter #1	6-72	16.5	3993	1840		JULY 26, 1972 .0581	1845	1927	7-17-72	- 82	1609
E. C. Lyon #1	7-72	17.5	4012	1883		AUGUST 2, 1972 .0572	1887	1845	7-26-72	+ 42	1652 1665
L. J. Dart #1	5-72	264	4055	1787		SEPTEMBER 22, 1972 .3181	1785				1492
E. C. Lyon #1	7-72	240	4012	1858		.2875	1877				1633
Kranz Sr. Unit	6-72	70	4070	1867		.2976	1868				1425
E. C. Lyon #1	7-72	288	4012	1857		.0652	1861				
						AVERAGE	1847	1887	8-2-72	- 40	
Kranz Sr. Unit	6-72	144	4070	1875		SEPTEMBER 27, 1972 .3011	1876				
L. Carter #1	6-72	59	3993	1763		.0494	1767				1544
E. C. Lyon #1	7-72	360	4012	1867		.065	1871				
						AVERAGE	1838	1847	9-22-72	- 9	

BOTTOM-HOLE PRESSURE TESTS - Page 2

VEVAY 19B-2N-1W

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. @ 3134 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG
Kranz Sr. Unit	6-72	72	4024	1536		JUNE 28, 1974 .313	1551				
L. Carter #1	6-72	72	4051	1387		.110	1399				
E. C. Lyon #1	7-72	72	4012	1538		.047	1541				
Dart #1	5-72	72	4030	1517		.3630	1524				
						AVERAGE	1503	1838	9-27-72	- 335	
Dart #1	5-72	24.6	4033	1328		SEPTEMBER 24, 1975 .414	1335	1503	6-28-74	- 168	1039 1045
Dart #1	5-72	72	4000	1089		AUGUST 8, 1976 .322	1105	1335	9-24-75	- 230	815 841
Kranz Sr. Unit	6-72	72	4070	808		MAY 2, 1978 .016	808	1105	8-8-76	- 297	719 722
Carter #1	6-72	NA	3993	43		APRIL 22, 1983 .006	43	808	5-2-78	-765	0 0

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
VEVAY 19B-2N-1W



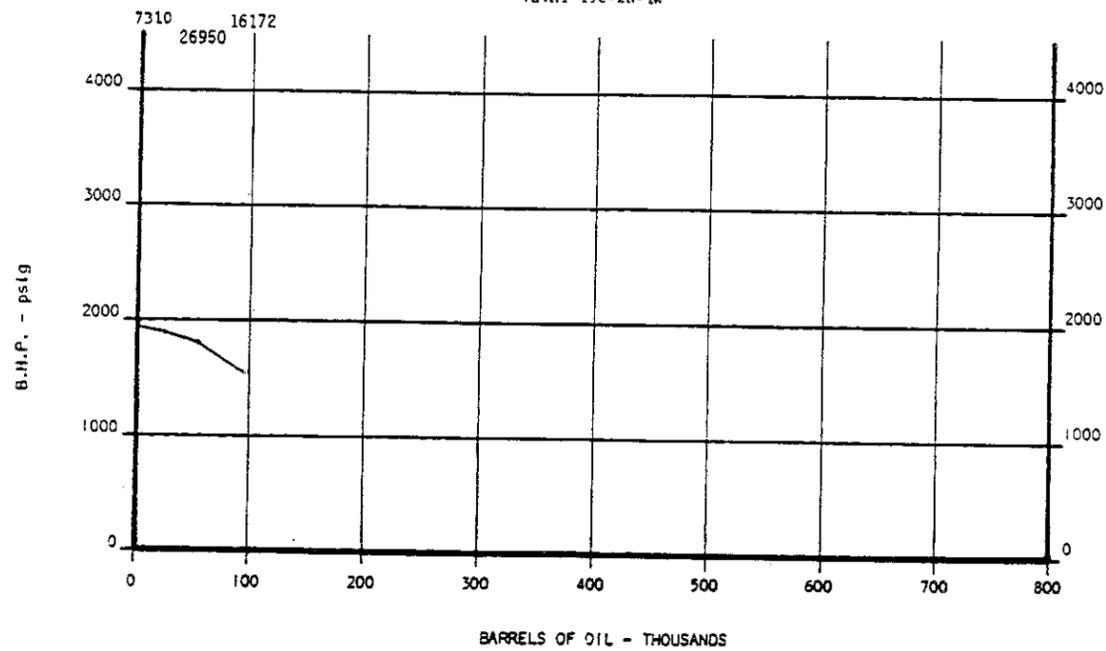
STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME VEVAY 19C-2N-1W COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS _____
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 5-72 VIRGIN PRESSURE 1984 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. @ 3228 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		TUB.	CSG
Lovette #1	5-72	47	4150	1979		MAY 10, 1972 0.3040	1984				
Lovette #1	5-72	285	4167	1972		SEPTEMBER 30, 1972 0.2964	1972	1984	5-10-72	- 12	
Lovette #1	5-72	72	4167	1896		JULY 30, 1976 .283	1896	1972	9-30-72	- 76	1554 1667
Lovette #1	5-72	72	4167	1800		JULY 4, 1978 .293	1800	1896	7-30-76	- 96	1502 1603
Lovette #1	5-72	--	3997	1475		APRIL 22, 1983 .262	1520	1800	7-4-78	-280	1238 1357

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
VEVAY 19c-2N-1W



STATE OF MICHIGAN

FIELD NAME WHITE OAK 4-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 2-81 VIRGIN PRESSURE 2165 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. #	3559 FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Tuthill #1-14	2-81	90	4494	2165	FEBRUARY 10, 1981 .540	2165	INITIAL TEST		689	960	
Tuthill #1-14	2-81	50 Days	4494	1446	JULY 1, 1982 .500	1446	2165	2-10-81	- 719	-- 205	

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME VEVAY 20-2N-1W COUNTY INGHAM TOWNSHIP INGHAM DATE OF TESTS _____
PRODUCING FORMATION SALINA-NIAGARAN DISCOVERY DATE 3-9-77 VIRGIN PRESSURE 1689* 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. #	3012 FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Danto #1	3-72	81	3936	1689	JUNE 27, 1973 .571	1689*	INITIAL TEST		1404		
* APPROX. 7400 Bbls. production at the time of this test											

STATE OF MICHIGAN

FIELD NAME WHITE OAK 11-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 4-81 VIRGIN PRESSURE 1828 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. #	3193 FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Oesterle #1-11	4-81	N.A.	4118	1828	APRIL 10, 1981 .559	1828	INITIAL TEST		85		

STATE OF MICHIGAN

FIELD NAME WHITE OAK 11A-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 2-84 VIRGIN PRESSURE 1459 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 3551	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Ferguson #1-11	2-84	193.2	4464	1459	FEBRUARY .540	16, 1984	1459	INITIAL	TEST	245	592

STATE OF MICHIGAN

FIELD NAME WHITE OAK 12-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 10-84 VIRGIN PRESSURE 1225 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 3421	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Hamlin #1-12B	10-84	72	4374 TYD	1225	NOVEMBER .519	5, 1984	1225	INITIAL	TEST	16	405

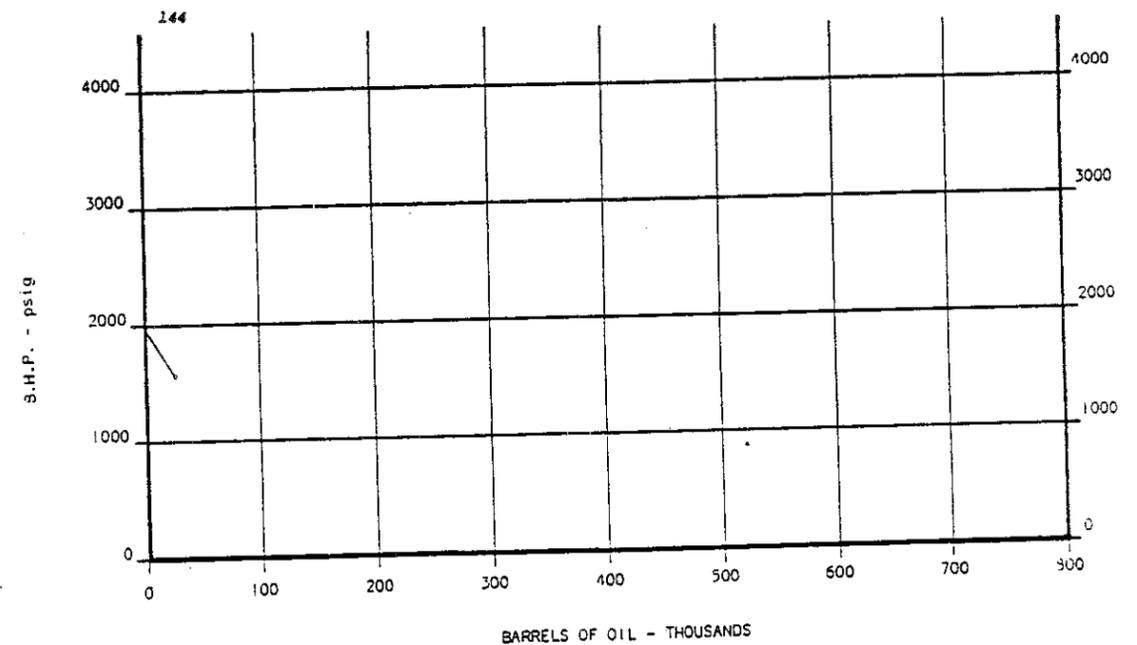
STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME WHITE OAK 15-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS
 PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 2-80 VIRGIN PRESSURE 1972 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 3404	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Kemler #1-15	2-80	N.A.	4359	1994	FEBRUARY .557	27, 1980	1972	INITIAL	TEST	649	675
Kemler #1-15	2-80	71.3	4316	1697	MARCH .472	30, 1981	1717	1972	2-27-80	- 255	197 864
Kemler #1-15	2-80	68.5	4353	1577	MAY .351	24, 1982	1579	1307	3-3-81	- 138	4 897

BOTTOM-HOLE PRESSURE DROP VERSUS
 RESERVOIR CUMULATIVE OIL PRODUCTION
 WHITE OAK 15-2N-2E



STATE OF MICHIGAN

FIELD NAME WHITE OAK 15A-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 11-81 VIRGIN PRESSURE 2000* 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Collar #1-15B	11-81	70+	4220 TVD	1346*	NOVEMBER 9, 1981 .280	1346	INITIAL TEST		313	760	

* = Estimated

STATE OF MICHIGAN

FIELD NAME WHITE OAK 17-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 7-82 VIRGIN PRESSURE 1570 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Nelson #1-17	7-82	NA	4171 TVD	1570	AUGUST 9, 1982 .339	1570	INITIAL TEST		458	910	

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME WHITE OAK 29-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-74 VIRGIN PRESSURE 1840 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Beam #1	1-74	Drill Stem Test	4085 TVD	1840 Est.	JANUARY, 1974 N.A.	1840 Est.	INITIAL TEST (DRILL STEM)				
Felton Unit #1	8-76	2 Weeks	4146	1562	AUGUST 13, 1976 .342	1562	1840	1-74	- 278	454	548
Felton Unit #1	8-76	72	4146	1383	SEPTEMBER 27, 1976 .326	1383	1562	8-13-76	- 179	275	430

STATE OF MICHIGAN

FIELD NAME WHITE OAK 30-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-80 VIRGIN PRESSURE 1800* 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. #	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Walker #1-29B	9-80	18.5	4188 TVD	1608	NOVEMBER 11, 1980 .30*	1608	1800	9-80	- 192	588	
Approximately 4,900 bbls. of oil had been produced at the time of this test.											
Walker #1-29B	9-80	N.A.	4188 TVD	1594	DECEMBER 21, 1980 .351	1594	1608	11-11-80	- 14	683	975

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME WHITE OAK 32-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS _____
PRODUCING FORMATION SALINA NIAGARAN DISCOVERY DATE 1-24-73 VIRGIN PRESSURE 1828 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. @ CURRENT PRESS.	2011 PREVIOUS PRESS	FEET DATE OF PREV. PRESSURE		TUB.	CSG.
Townsend #1	1-73	32	3974	1828	JANUARY .529	26, 1973 1828		INITIAL TEST			495

LIVINGSTON

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME WHITE OAK 32a-2N-2E COUNTY INGHAM TOWNSHIP WHITE OAK DATE OF TESTS _____
PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 3-77 VIRGIN PRESSURE 1800* 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. @ CURRENT PRESS.	3095 PREVIOUS PRESS	FEET DATE OF PREV. PRESSURE		TUB.	CSG.
Glen 1-32	3-77	3 Days	4049	199	AUGUST 21, 1978 .455	199	1800*	3-77	- 1601	12	158

* Estimated

STATE OF MICHIGAN

FIELD NAME GENOA 31-2N-5E COUNTY LIVINGSTON TOWNSHIP GENOA DATE OF TESTS _____
 PRODUCING FORMATION SAL. NIAG DISCOVERY DATE 3-83 VIRGIN PRESSURE 1877* 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. # 3065	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
Gutierrez #1-31	3-83	67.8	4048	1683	MARCH 12, 1983 .10	1983 1683	INITIAL	TEST		725
Gutierrez #1-31	3-83	1174	4048	1775	APRIL 27, 1983 .3485	1983 1775	INITIAL	TEST		717

* = Estimated

STATE OF MICHIGAN
 DEPARTMENT OF NATURAL RESOURCES
 GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME GREEN OAK 11-1N-6E COUNTY LIVINGSTON TOWNSHIP GREEN OAK DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-79 VIRGIN PRESSURE 1760 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. # 2704	PREVIOUS PRESS.	DATE OF PREV. PRESSURE		
American Aggregates #1-1	1-79	11.4	3614TVD	1760	JANUARY 6, 1979 10*	1760	INITIAL	TEST		1525 1565

* = Estimated

STATE OF MICHIGAN

FIELD NAME IOSCO 28-2N-3E COUNTY LIVINGSTON TOWNSHIP IOSCO DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-78 VIRGIN PRESSURE 1697 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. # 2886	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Patrick #1-28	1-79	months	3822	1697	JANUARY 9, 1979 .537	1979 1697	INITIAL TEST		45	0	

STATE OF MICHIGAN

FIELD NAME IOSCO 34-2N-3E COUNTY LIVINGSTON TOWNSHIP IOSCO DATE OF TESTS _____
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 8-83 VIRGIN PRESSURE 1683* 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. # 2020	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Pohl #1-34A	8-83	72	3868 TVD	1287	SEPTEMBER 27, 1983 .30*	1287	INITIAL TEST		573		

STATE OF MICHIGAN

FIELD NAME MARION 23-2N-4E COUNTY LIVINGSTON TOWNSHIP MARION DATE OF TESTS _____
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 5-84 VIRGIN PRESSURE 1393 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. # 3185	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Dorsey #1-23A	5-84	72	4142 TVD	1393	MAY 22, 1984 .335	1393	INITIAL TEST		138	825	

STATE OF MICHIGAN

FIELD NAME PUTNAM 14-1N-4E COUNTY LIVINGSTON TOWNSHIP PUTNAM DATE OF TESTS _____
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 5-84 VIRGIN PRESSURE 1612 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. # 2765	FEET	DATE OF PREV. PRESSURE		TUB. CSG.	TUB. CSG.
Tashnick #1-14	5-84	146.5	3683 TVD	1612	MAY 29, 1984 .373	1612	INITIAL TEST		412	479	

MACOMB

STATE OF MICHIGAN

FIELD NAME Lenox 36-4N-14E COUNTY MACOMB TOWNSHIP LENOX DATE OF TESTS
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 11-82 VIRGIN PRESSURE 1274 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	SURF-IN SURFACE PRESSURES	
						P.S.I. @ 2096 FEET	DATE OF PREV. PRESSURE		TUB. CSG.	CSG.
Oak Ridge Golf #1-36	11-82	--	2732	1267	.321	1267	INITIAL TEST		400	400
						1257				
Oak Ridge Golf #1-36	11-82	--	2732	1257	.194	1257			1149	1039
Oak Ridge Golf #2-36A	6-83	--	2702TVD	1272	.440	1289	INITIAL TESTS		507	378
						AVERAGE 1273				
Murmyluk #3-36	9-83	NA	2670TVD	1262	.314	1281			907	
						1267				
Cronn #4-36	7-83	NA	2690	1224	.30*	1274	INITIAL TESTS		345	
					AVERAGE	1274				

* = Assumed

OAKLAND

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
GEOLOGICAL SURVEY DIVISION

BOTTOM-HOLE PRESSURE TESTS

FIELD NAME ADDISON 12-5N-11E COUNTY OAKLAND TOWNSHIP ADDISON DATE OF TESTS _____
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 2-79 VIRGIN PRESSURE 1636 NO. PRODUCING WELLS _____

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 3219 CURRENT PRESS.	PREVIOUS PRESS	FEET DATE OF PREV. PRESSURE			
Lanphar #1-12	2-79	84	4273	1557		DECEMBER 22, 1978 .306	1557	INITIAL TEST		1268	1268
Morris #4-12	7-79	65.5	4296	1645		JULY 29, 1979 .328	1617	INITIAL TEST		517	110
Morris #4-12	7-79	N.A.	4296	1668		NOVEMBER 26, 1980 .331	1640	INITIAL TEST		515	
Goodfellow #5-12	7-80	N.A.	4159	1628		.050	1629	INITIAL TEST		1422	1706
Lanphar #3-12	2-79	N.A.	4259	1642		.521	1640	INITIAL TEST		---	---
						AVG	1636				
Lanphar #1-12	2-79	114	4273	1564		AUGUST 7-16, 1982 .524	1564			862	
Lanphar #3-12	2-79	--	4269	1619		.075	1618			1368	
Morris #4-12	7-79	D4	4296	1619		.332	1591			359	
Goodfellow #5-12	7-80	196	4156	1458		.044	1459			1286	
						AVERAGE	1558	1636	11-26-80	-78	

STATE OF MICHIGAN

FIELD NAME ADDISON 14-5N-11E COUNTY OAKLAND TOWNSHIP ADDISON DATE OF TESTS _____
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 10-76 VIRGIN PRESSURE 1585 NO. PRODUCING WELLS _____

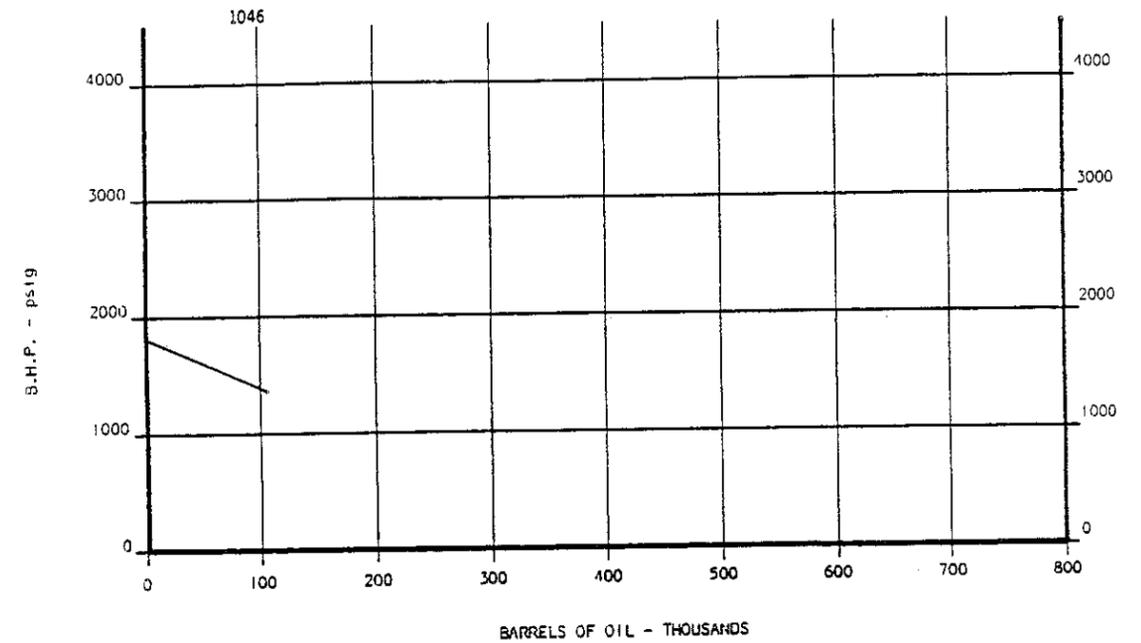
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT IN TIME HOURS	RECORD DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. # 3224 CURRENT PRESS.	PREVIOUS PRESS	FEET DATE OF PREV. PRESSURE			
Fallon #1-14	10-76	66.8	4270	1585		FEBRUARY 19, 1977 .044	1585	INITIAL TEST		1179	1325
Fallon #3-14	11-77	63.3	4149	1561		FEBRUARY 10, 1978 .041	1565	INITIAL TEST		1343	1357

STATE OF MICHIGAN

FIELD NAME AVON 1-3N-11E COUNTY OAKLAND TOWNSHIP AVON DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 1-78 VIRGIN PRESSURE 1636 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. @ 2428 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	
M.S.U. #2-1	1-78	66	3245	1636		FEBRUARY 13, 1978 .048	1636	INITIAL TEST		1462	1461
S & P Investment #1-1	2-79	68.5	3367	1614		JUNE 21, 1978 .049	1608	INITIAL TEST		1431	1500
Dillman #3-1A	7-79	80.5	3194TVD	1624		JUNE 25, 1980 .042	1625	INITIAL TEST		1453	429

BOTTOM-HOLE PRESSURE DROP VERSUS RESERVOIR CUMULATIVE OIL PRODUCTION LYON 8-1N-7E



STATE OF MICHIGAN

FIELD NAME LYON 8-1N-7E COUNTY OAKLAND TOWNSHIP LYON DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 8-80 VIRGIN PRESSURE 1811 NO. PRODUCING WELLS _____

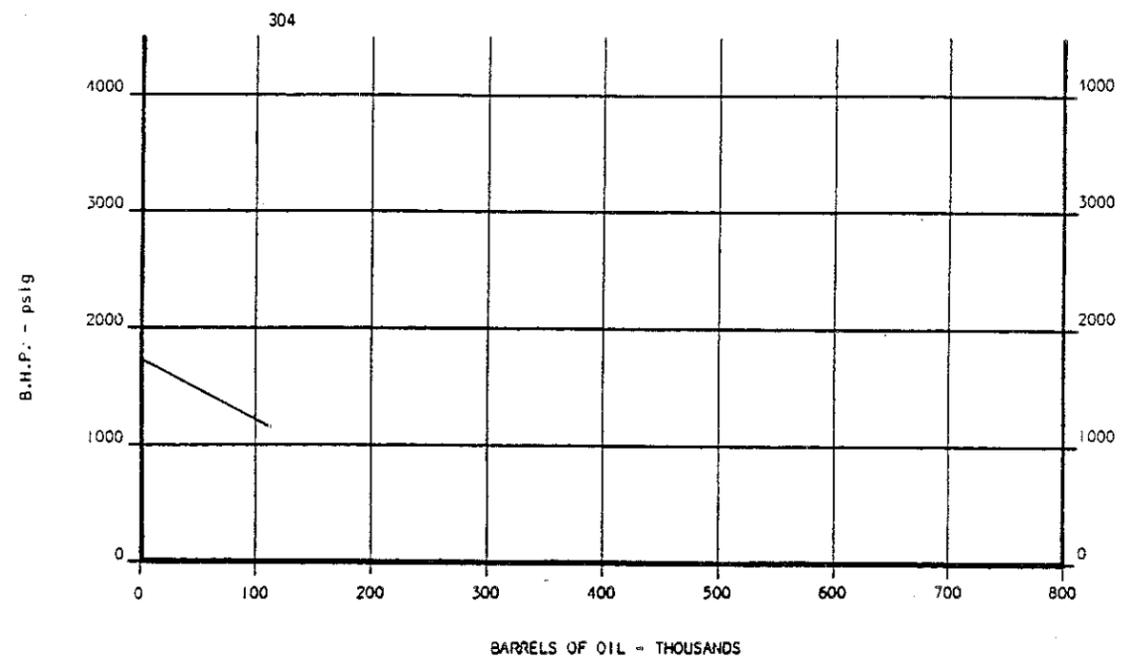
OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHUT IN TIME HOURS	RECORD. DEPTH FEET	RECORDED PRESSURE P.S.I.	FLUID GRADIENT LOWER 100 FT.	PRESSURES AT COMMON DATUM			INTERVAL PRESSURE DIFF	SHUT-IN SURFACE PRESSURES TUB. CSG.	
						P.S.I. @ 2761 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	
Felber #1-8	8-80	49.3	3697	1811		AUGUST 7, 1980 .33	1811	INITIAL TEST		713	1615
Felber #1-8	8-80	30	3697	1348		APRIL 26, 1983 .33	1348		-463	835	850

STATE OF MICHIGAN

FIELD NAME LYON 17-1N-7E COUNTY OAKLAND TOWNSHIP LYON DATE OF TESTS _____
 PRODUCING FORMATION SAL.-NIAG. DISCOVERY DATE 10-80 VIRGIN PRESSURE 1751 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. @ 2717 FEET	CURRENT PRESS.	PREVIOUS PRESS.		DATE OF PREV. PRESSURE	
Chicorel #1-17	10-80	19	3664TVD	1751		NOVEMBER 5, 1980 .326	1751	INITIAL TEST			638
Chicorel #1-17	10-80	30	3640 TVD	1171		APRIL 26, 1983 .338	1179		-572		294

BOTTOM-HOLE PRESSURE DROP VERSUS
RESERVOIR CUMULATIVE OIL PRODUCTION
LYON 17-1N-7E



STATE OF MICHIGAN

FIELD NAME OAKLAND 9-4N-11E COUNTY OAKLAND TOWNSHIP OAKLAND DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 6-83 VIRGIN PRESSURE 1465 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2036	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Morrison #1-9	6-83	--	3888 TVD	1465	JUNE 20, 1983 .317	1465	INITIAL	TEST		798

STATE OF MICHIGAN

FIELD NAME LYON 18-1N-7E COUNTY OAKLAND TOWNSHIP LYON DATE OF TESTS
PRODUCING FORMATION SAL-NIAG. DISCOVERY DATE 6-79 VIRGIN PRESSURE 1701 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2699	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Friedlaender 1-18	6-79	appx. 3 wks	3630	1701	JULY 18, 1979 .30	1701	INITIAL	TEST		235 741

STATE OF MICHIGAN

FIELD NAME ORION 36-4N-10E COUNTY OAKLAND TOWNSHIP ORION DATE OF TESTS
PRODUCING FORMATION SAL NIAG DISCOVERY DATE 12-81 VIRGIN PRESSURE 1717 NO. PRODUCING WELLS

OPERATOR, LEASE AND WELL NUMBER	WELL COMP. DATE	SHOT 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. # 2785	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Jacob #1-36	12-81	20.5	3896	1717	FEBRUARY 18, 1982 .058	1717	INITIAL	TEST		1500 100

WASHTENAW

STATE OF MICHIGAN

FIELD NAME Salem 5-15-7 COUNTY WASHTENAW TOWNSHIP SALEM DATE OF TESTS _____
 PRODUCING FORMATION SAL NIAG DISCOVERY DATE 8-83 VIRGIN PRESSURE 1653 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. CSC.
						P.S.I. @ 2492 FEET	PREVIOUS PRESS	DATE OF PREV. PRESSURE		
Bregle #1-5	8-83	64	3442	1653	SEPTEMBER 26, 1983 .20*	1653	INITIAL	TEST		666 PKR

* = Estimated