CANADA
DEPARTMENT
OF
MINES AND TECHNICAL SURVEYS
GEOLOGICAL SURVEY OF CANADA

SOUTHWESTERN ONTARIO

PRINCIPAL OIL AND NATURAL GAS FIELDS

SCALE, ONE INCH TO SIX MILES = 1/380,160

PRINCIPAL OIL AND NATURAL GAS FIELDS OF SOUTHWESTERN ONTARIO

NO. ON MAP	FIELD OR POOL	COUNTY	TYPE OF FIELD	DEPTH TO PRODUCTIVE ZONE (FEET)	PRODUCING FORMATIONS	TYPE OF STRUCTURE	YEAR OF DISCOVERY	INITIAL PRESSURE (P. S. I.)	PRESSURE AT END OF 1952 (P. S. I.) (1)	NO. OF GAS WELLS PRODUCING (1952)	GAS PRODUCTION DURING 1952 (MMcf.)	CUMULATIVE PRODUCTION TO END OF 1952 (MMcf.) (2)
1	Malden	Essex	Gas	834-950	Guelph dolomite (Silurian)	Dome	1946	373	395	—	—	22,082 (1–4)
2	Kingsville	"	"	900-1000	" " "	"	1888	460	165	16	15.2	
3	Mersea	"	Oil & some gas	1,100 approx.	" " "	Anticline	1902	—	285	3	2.0	
4	Staples	"	Gas & some oil	1250	" " "	Dome	1948	494	445	—	—	
5	Pelee Island	"	Oil	740-760	Salina dolomite (Silurian)	——	1895					
6	Wheatley	Kent	"	1290-1300	Guelph dolomite (Silurian)	——	1903					
7	New Wheatley	"	Gas	1287-1297	" " "	——	1948	487	—	—	1,623.3 (7–8)	216,916 (7–8)
8	Tilbury	"	"	1000-1400	" " "	Anticline	1906	590	173	241		
9	Fletcher	"	Oil	1410-1430	Salina ? & Guelph dolomite (Silurian)	——	1905					
10	Declute	"	Gas	1500-1580	Guelph dolomite (Silurian)	Anticline	1929	600	235	28	289.4	17,311
11	Dover	"	Gas & oil	3000	Trenton limestone (Ordovician)	Faulted syncline	1917	1250	137	12	122.3	11,277
12	Chatham	"	Gas	1425-1625 (12–13)	Salina & Guelph dolomite (Silurian)	Reef & dome	1936	735	422	21	85.2	3,733
13	Camden Gore	"	"		Salina dolomite (Silurian)	Dome	1943	747	586	15	2.4	936
14	Chatham Gore	"	"	1790-1800	?	——	1951	745	745			
15	Zone	"	"	1400-1600	Salina & Guelph dolomite (Silurian)	Dome	1943	700	414	49	115.1	5,874
16	Bothwell	"	Oil	328-604	Dundee limestone (Devonian)	"	1862					
17	West Becher	Lambton	Oil & some gas	1850-1925 (17–18)	Salina & Guelph dolomite (Silurian)	Plunging anticline	1946	815 (17–18)	775 (17–21)	2 (17–21)	44.7 (17–21)	1,209 (17–21)
18	East Becher	"	Gas		Guelph dolomite (Silurian)	Dome	1946					
19	Duthill	"	"	1691-1700	" " "	Reef	1950	760				
20	Sombra	"	"	1813-2059	" " "	"	1951	935				
21	Bickford	"	"	2082-2098	Salina dolomite (Silurian)	——	1950	867				
22	Dawn	"	Gas & some oil	1800	Salina & Guelph dolomite (Silurian)	Reef & dome	1914	860	399	12	0.7	17,373
23	Waubuno	"	Gas	1851-2040	Guelph dolomite (Silurian)	Reef	1951	937	774 (23–28)	18 (23–28)	2651.4 (23–28)	9,003 (23–28)
24	Kimball	"	"	2130-2200	Salina dolomite (Silurian)	Dome	1947	835				
25	Payne	"	"	1996-2010	Guelph dolomite (Silurian)	Reef	1949	839				
26	Colinville	"	"	2039-2091	" " "	"	1951	816				
27	Corunna	"	"	2140	" " "	"	1950	865				
28	Seckerton	"	"	2100-2360	" " "	"	1952	—				
29	Petrolia	"	Oil	400-450	Dundee limestone (Devonian)	Dome	1862					
30	Oil Springs	"	"	350-400	" " "	"	1861					
31	Watford	Lambton & Middlesex	"	360-456	" " "	Plunging anticline	1938					
32	Dante	Lambton	"	225-345	" " "	——	1948					
33	Glencoe	Middlesex	"	340-370	" " "	Elongated Dome	1917					
34	Rodney	Elgin	"	272-408	" " "	——	1951					
35	Mosald	Middlesex & Elgin	Gas	1214-1440	Salina & Guelph dolomite (Silurian)	——	1949	741	712	31	298.2	521
36	Dutton	Elgin	Oil	400	Dundee limestone (Devonian)	Dome	1898					
37	Malahide	"	Gas	1100	Guelph dolomite (Silurian)	"	1939	550	320	3	0.8	2,211
38	Brownsville	Oxford & Elgin	"	910	" " "	——	1935	—	338	11	21.7	3,854
39	Norfolk Co. & Bayham Tp.	Norfolk & Elgin	"	850-1400	Clinton dolomite, Grimsby sandstone (Silurian)	Monocline	1923	—	243	406	600.5	10,617
40	Haldimand & Brant	Haldimand, Brant, Wentworth & Lincoln	"	500-900	Clinton dolomite, Grimsby sandstone, Whirlpool sandstone (Silurian)	"	1891	—	105	1,911	1,616.3	11,462
41	Welland	Welland	"	760-850	Clinton dolomite, Grimsby sandstone, Whirlpool sandstone (Silurian)	"	1888	430	78	564	686.5	45,998

(1) Average pressure of respective fields (2) Includes estimated production figures for the early years of the older fields

Production and pressure figures compiled from reports by the Ontario Natural Gas Commissioner.

LEGEND

PALÆOZOIC

DEVONIAN
- *PORT LAMBTON BEDS: shale and sandstone*
- *KETTLE POINT FORMATION: shale*
- *HAMILTON FORMATION: shale and limestone*
- *DUNDEE FORMATION: limestone and dolomite*
- *COLUMBUS FORMATION: limestone*
- *DETROIT RIVER FORMATION: limestone and dolomite*
- *ONONDAGA FORMATION: limestone*
- *ORISKANY FORMATION: sandstone*

SILURIAN
- *BASS ISLAND FORMATION: dolomite*
- *SALINA FORMATION: dolomite, shale, and salt*
- *GUELPH FORMATION: dolomite*
- *LOCKPORT FORMATION: dolomite*
- CLINTON GROUP: *ROCHESTER FORMATION: shale*; *IRONDEQUOIT-REYNALES FORMATION: dolomite*; *THOROLD FORMATION: sandstone*
- CATARACT GROUP: *GRIMSBY FORMATION: sandstone*; *CABOT HEAD FORMATION: shale*; *MANITOULIN FORMATION: dolomite*; *WHIRLPOOL FORMATION: sandstone*

ORDOVICIAN
- *QUEENSTON FORMATION: red shale*
- *MEAFORD FORMATION: shale with interbedded limestone*
- *DUNDAS FORMATION: shale with interbedded limestone*
- *BILLINGS FORMATION: shale*
- *TRENTON AND BLACK RIVER GROUPS: limestone*
- *Basal beds: arkose, sandstone, sandy dolomite*

Oil field 3
Natural gas field 8
Natural gas pipe line .... 10"
Compressor Station
Main highway 2
County boundary
Township boundary

Prepared by B.V. Sanford and A. Larochelle
Cartography by the Geological Cartography Division

PUBLISHED, 1953