

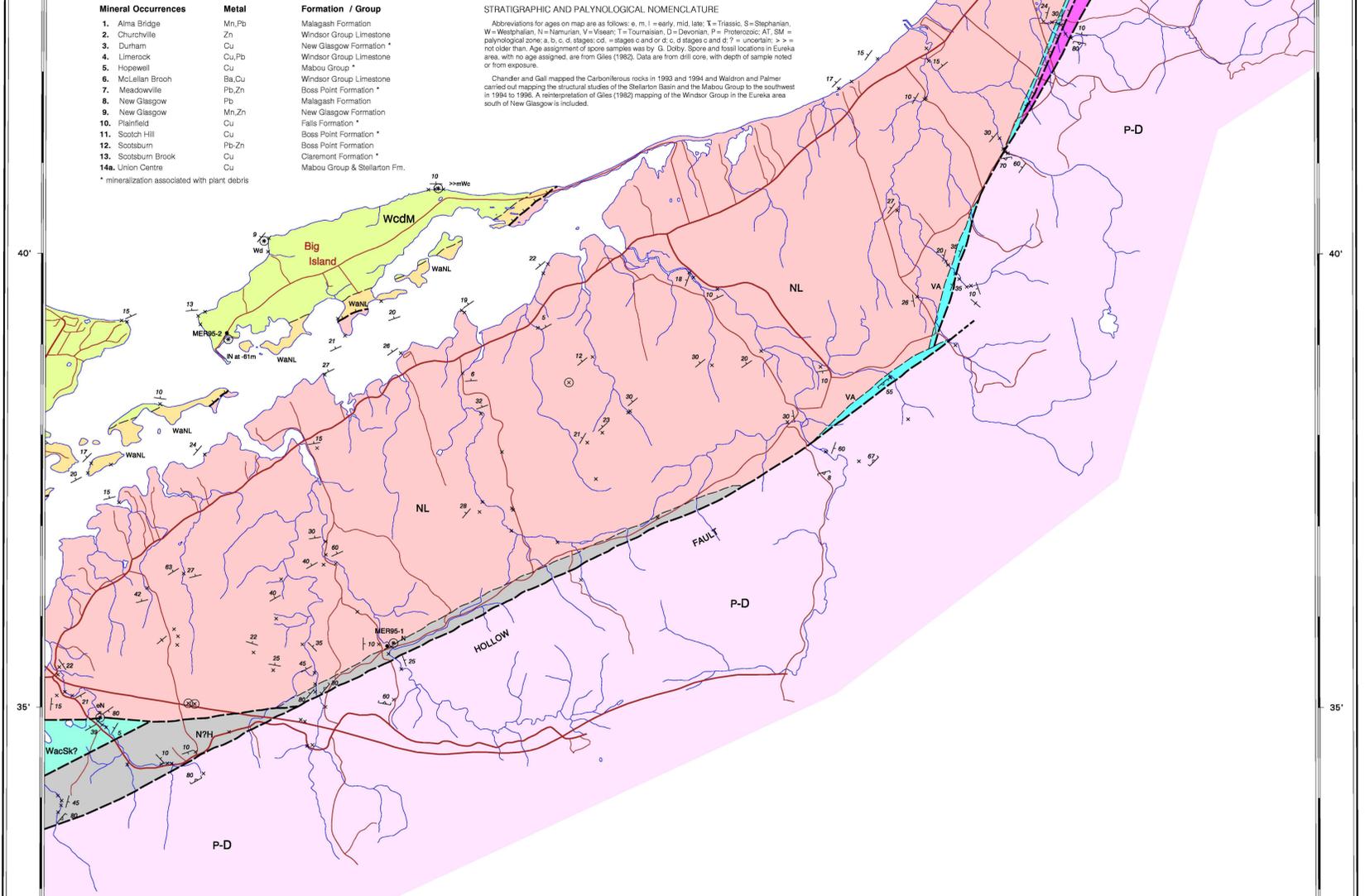
LEGEND

Geological legend with columns for 'NORTH OF THE COBEQUID FAULT', 'SOUTH OF THE COBEQUID FAULT', 'NORTH OF THE HOLLOW FAULT', and 'SYMBOLS'. Includes rock units like Pictou Group, Cumberland Group, and Westphalian Formation.

Time scale in Ma (300 to 375) and Mineral Occurrences table listing various metals and their associated geological formations.

STRATIGRAPHIC AND PALYNOLOGICAL NOMENCLATURE

Abbreviations for ages on map as follows: e, m, l = early, mid, late; T = Triassic; S = Stephanian; W = Westphalian; N = Namurian; V = Viséan; F = Fernelian; D = Devonian; P = Proterozoic; AT = Antigonish; SM = ...



INTRODUCTION

The Stellarton Gap is a lowlying area of farmland in central northern Nova Scotia, situated between the forested Cobequid Highlands to the west and Antigonish Highlands to the east. It supports the towns of Pictou, Stellarton and New Glasgow and is drained to the north by the West, Middle and East rivers of Pictou. Pictou Harbour gives access to shipping from the Northumberland Strait.

DESCRIPTIVE NOTES

The Stellarton Gap is a lowlying area of farmland in central northern Nova Scotia, situated between the forested Cobequid Highlands to the west and Antigonish Highlands to the east. It supports the towns of Pictou, Stellarton and New Glasgow and is drained to the north by the West, Middle and East rivers of Pictou.

These are the predominantly red clastic successions as a part of the Stellarton Formation, assigned to informal member status. Our preliminary palynological results do not indicate a significant hiatus between the units, as has been inferred by previous workers, but there appears to be a break within the Sluiter Brook Member. The lower part of the member of Westphalian A in age and the upper part, Westphalian C, with no Westphalian B ages recorded.

Logan, W., Hartley, E., Fletcher, H., Fairbairn, E.R. and Bell, Robert. 1982: Stellarton, Nova Scotia, Pictou and Westville map sheets. Geological Survey of Canada, Maps 598, 600, 609 and 610, scale 1:63,000.

STRATIGRAPHY AND SEDIMENTOLOGY

Late Devonian-Early Carboniferous rocks. The late Paleozoic rocks of the Stellarton Gap overlie Late Precambrian to Early Devonian igneous and sedimentary basement rocks of the Antigonish and Cobequid Highlands (map unit P-D).

STRUCTURE

Rocks overlying the basement highlands fall into two structural domains, divided by the Cobequid-Hollow fault system. North of the system strata are not strongly deformed. Sandstones are moderately shifed and mudstones are massive. In the Scotiabank Anticline, the basin succession is represented only by the Late Viséan-Early Namurian Middle Devonian Formation, which has been overlain by the Devonian Fourteen Lake Group. Supportive geological evidence of thrusting of Windsor strata has been observed north-east of the area (Durling et al., 1995). Inconformable superposition of the late Namurian Clamson Formation on these units indicates that the thrusting is Namurian.

Murphy, J.B., Keppie, J.D., Nanor, R.D. and Dostal, J. 1990: The Avalon composite terrane of Nova Scotia, in R.A. Stachan and G.K. Taylor, (eds.), Avalonian and Cadomian geology of the North Atlantic. Blackie and Son, Glasgow.

Carboniferous rocks

Horton Group (Foumarlain). The Horton Group (map unit TH) lies mainly south of the Riverdale-Chedabucto fault system along the present northern margin of the St. Mary's Basin. It consists of a sequence of interbedded grey to black silty sandstone and shale, rare pebble conglomerate and pebbly siltstone, siltstone and grey to black shale, some of which is carbonaceous. These facies are similar to those of the St. Mary's Basin, which Murphy et al. (1995a,b) interpreted as a tectonically controlled fault and alluvial fan deposits. To the north, Horton Group rocks of the Nutby Formation (map unit TH) also occur in a fault-bounded side along the Cobequid Fault. They consist of grey wacke, black shale, red and white chert pebbles conglomerates and volcanic rocks.

ECONOMIC GEOLOGY

The non-ferrous members of the Stellarton Formation contain coal and oil shale reserves (Naylor et al., 1989; Gibling et al., 1992; Chandler et al., 1994). Metallic mineral occurrences in the map area consist of the following: (1) pyrite, (2) magnetite, (3) hematite, (4) barite, (5) celestine, (6) fluorite, (7) galena, (8) sphalerite, (9) arsenic, (10) antimony, (11) bismuth, (12) vanadium, (13) niobium, (14) tantalum, (15) zirconium, (16) thorium, (17) uranium, (18) molybdenum, (19) silver, (20) gold, (21) platinum, (22) selenium, (23) tellurium, (24) mercury, (25) arsenic, (26) antimony, (27) bismuth, (28) vanadium, (29) niobium, (30) tantalum, (31) zirconium, (32) thorium, (33) uranium, (34) molybdenum, (35) silver, (36) gold, (37) platinum, (38) selenium, (39) tellurium, (40) mercury, (41) arsenic, (42) antimony, (43) bismuth, (44) vanadium, (45) niobium, (46) tantalum, (47) zirconium, (48) thorium, (49) uranium, (50) molybdenum, (51) silver, (52) gold, (53) platinum, (54) selenium, (55) tellurium, (56) mercury, (57) arsenic, (58) antimony, (59) bismuth, (60) vanadium, (61) niobium, (62) tantalum, (63) zirconium, (64) thorium, (65) 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