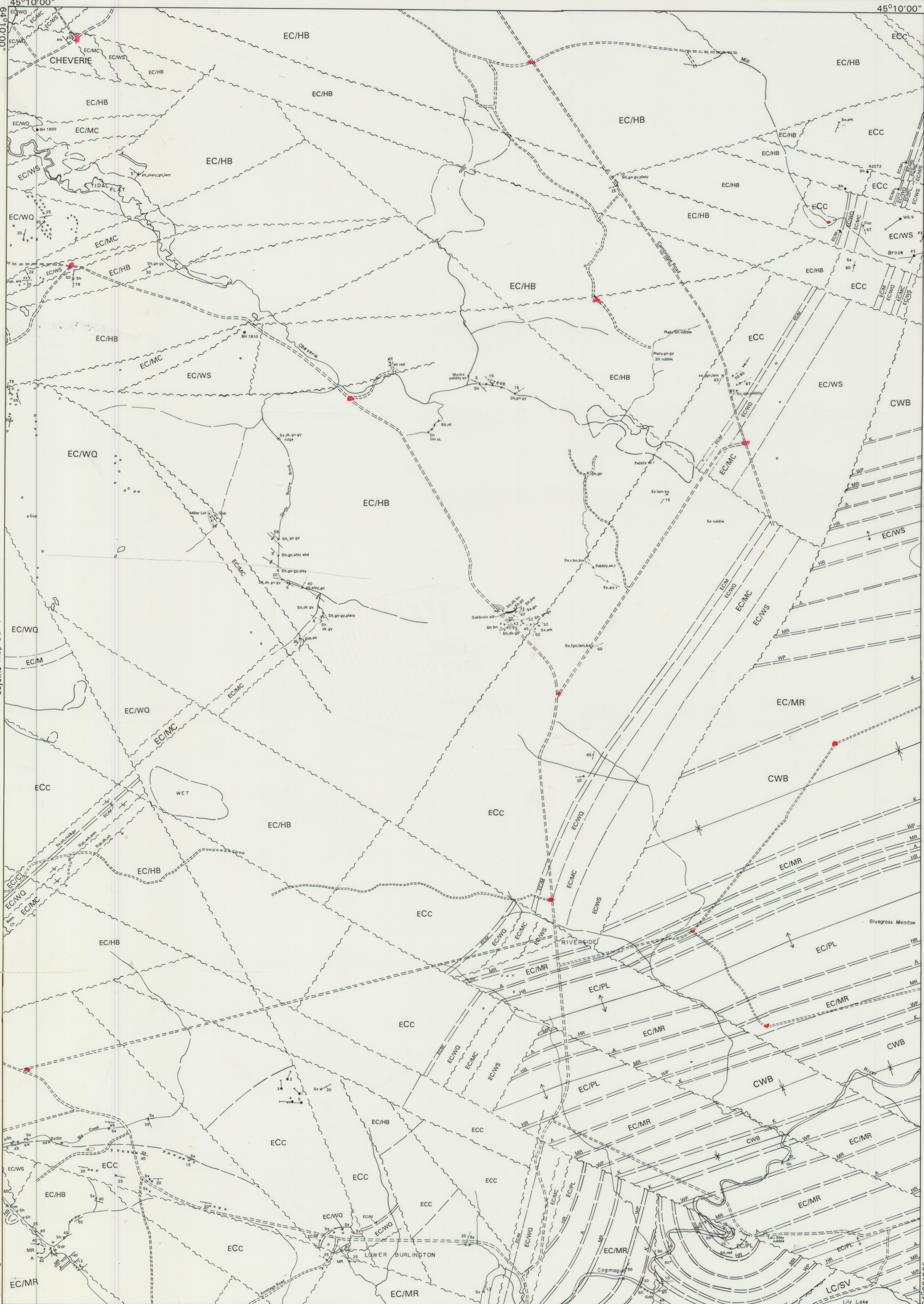


CHEVERIE-LOWER BURLINGTON QUADRANGLE
NTS 21 H/01 - W1 and W3

Geology by R.G. Moore 1987-1991

Redrafted by C.F. Cormier

January, 1993

OFM 93-001

LEGEND

ERATHEM / SYSTEM / SUBSYSTEM / SERIES / STAGES

MILLIONS OF YEARS BEFORE PRESENT: 280, 370, 415, 580

PALEOZOIC; CARBONIFEROUS; CAMBRO-ORDOVICIAN; DEVONIAN; DINANTIAN; SILESIAN; NAMURIAN; WESTPHALIAN; TOURNAISIAN; VISEAN; BRIGANTIAN; WARNANTIAN; ASBIAN; HOLKERIAN; LIVIEN; ARUNDIAN; MOLINACIEN; CHADIAN; IVORIEN; HASTARIEN; BRITISH ISLES CORRELATION; BELGIUM CORRELATION; C-E Subzone; B Subzone; A Subzone

PICTOU GROUP

LCsv — SCOTCH VILLAGE FORMATION (LCsv):
Upper Member (LCsv/u): grey-green sandstone
Lower Member (LCsv/l): drab, reddish-brown siltstone sandstone

angular unconformity

CANSO GROUP

Cwb — WATERING BROOK FORMATION (Cwb): grey siltstone, minor sandstone with intercalated gypsum and anhydrite

presumably conformable

WINDSOR GROUP

ECmr — MURPHY ROAD FORMATION (ECmr): siltstone, minor gypsum and the following sequence of limestones:
Kennetcook K
Wallace Point WP
Meander River MR
Avon A
Brooklyn Station BS
Herbert River HR

ECpl — PESAQUID LAKE FORMATION (ECpl): siltstone and the following sequence of limestones:
Lebreau L
Pesaquid Psq

fault usually

ECws — WENTWORTH STATION FORMATION (ECws): gypsum, minor siltstone, limestone, dolostone and the following sequence of carbonate rocks:
North 60 Dolostone N60
Dimock Limestone D
Phillips Limestone P
St. Croix Limestone SIC

fault usually

ECmc — MILLER CREEK FORMATION (ECmc): gypsum, minor siltstone, limestone, dolostone and the following sequence of carbonate members and a siltstone bed:
Sanford Limestone S
Big Red Siltstone BRSlt
Chambers Limestone C
Belmont Limestone B
Mantua Limestone Man
Fisher Limestone F
McCulloch Dolostone McC

fault usually

ECwq — WHITE QUARRY FORMATION (ECwq): anhydrite, minor dolostone, salt.

ECm — MACUMBER FORMATION (ECm): thin bedded, arenaceous limestone.

ECw — Undivided WINDSOR GROUP

angular unconformity

HORTON GROUP

ECc — CHEVERIE FORMATION (ECc): arkose, sandstone, siltstone, conglomerate

angular unconformity

HORTON BLUFF FORMATION (ECHB):
ECHB/u — Upper Member (ECHB/u): shale, siltstone, sandstone
ECHB/ugs — Glass Sand Marker Bed (ECHB/ugs): sandstone, siltstone
ECHB/m — Middle Member (ECHB/m): black and grey shale, minor dolostone and limestone
ECHB/l — Lower Member (ECHB/l): sandstone, conglomerate, breccia, siltstone and the following named unit:
Lower Clastic Unit

ECH — Undivided HORTON GROUP

nonconformity

DCg / DCgd — Granite (DCg)
Porphyritic biotite granodiorite (DCgd)

intrusive contact

MEGUMA GROUP

COh — HALIFAX FORMATION (COh): slate, minor siltstone.

COg — GOLDENVILLE FORMATION (COg): greywacke, metagreywacke containing porphyroblasts (gwk2)

Mafic sills and dykes associated with periods of intrusive and extrusive activity occurring throughout the geological column: diabase (Mdb)

NOTE: ALL UNITS MAY NOT BE PRESENT. DERIVED FROM NSDME MAP 86-2

SYMBOLS

Rock Outcrop:
- named marker bed
- limestone, dolostone (not a named bed)
- anhydrite, gypsum
- terrigenous sedimentary rocks
- granitoid rocks

Rock rubble close to bedrock source

Bedding:
- horizontal
- inclined
- vertical
- overturned

Geological boundary, observed or known from drilling, assumed

Anticline and syncline

Fossil tree root (may include stump) in recent sediments

Fossil tree trunk in recent sediments

Fault observed or known from drilling, assumed

Glacial striae, direction of movement known, unknown

Glacial striae, numbers indicate relative age, 1 being older

Depression, generally a sink hole

Karst topography

Drillhole,

Quarry: gyp-gypsum, ls-limestone, rock-riprap

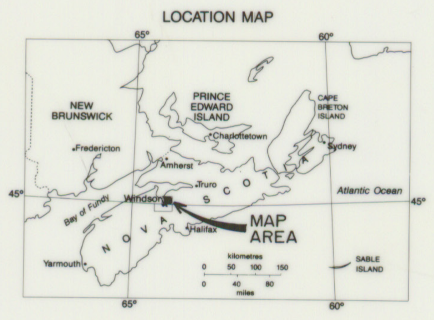
Quarry, abandoned

Placer deposit: Au-gold, abandoned

Surveyed line

Quarry Outline

LOCATION MAP



Nova Scotia Department of Natural Resources
Mines and Energy Branches

OFM 93-001

Geological map of

CHEVERIE - LOWER BURLINGTON QUADRANGLE

(N.T.S. SHEET 21 H/01)

NOVA SCOTIA

R. G. Moore

Scale 1:10,000

0 0.5 1
Kilometres

Nova Scotia Department of Natural Resources
Honourable John G. Leefe, Minister

Halifax, Nova Scotia
1993

Nova Scotia Department of Natural Resources