

MF (1152)

HUGHES-OWENS  
313 1102

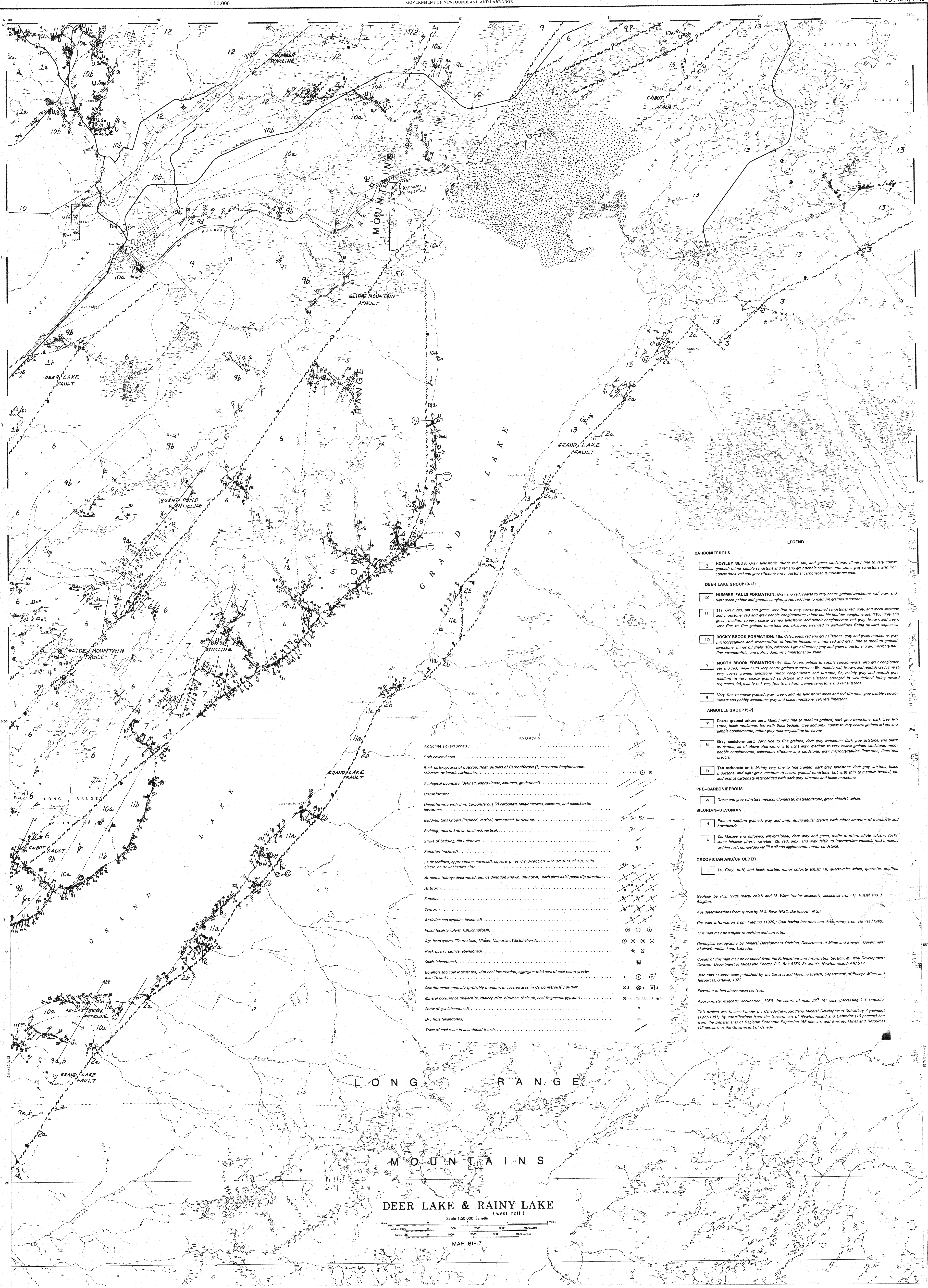
REF. or DRAWING NO. DEER LAKE - RAINY LAKE  
DETAILS MAP 81-17 By G. HYDE.

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MINERAL DEVELOPMENT DIVISION  
DEPARTMENT OF MINES AND ENERGY  
GOVERNMENT OF NEWFOUNDLAND AND LABRADOR

12 H/3, 12 A/14 W



- LEGEND**
- CARBONIFEROUS**
- 13 HOWLEY BEDS: Gray sandstone, minor red, tan and green sandstone, all very fine to very coarse grained; minor pebbly sandstone and red and gray pebble conglomerate; some gray sandstone with iron concretions; red and gray siltstone and mudstone; carbonaceous mudstone; coal.
  - DEER LAKE GROUP (9-12)
  - 12 HUMBER FALLS FORMATION: Gray and red, coarse to very coarse grained sandstone; red, gray, and light green pebble and granule conglomerate; red, fine to medium grained sandstone.
  - 11 11a, Gray, red, tan and green, very fine to very coarse grained sandstone; red, gray, and green siltstone and mudstone; red and gray pebble conglomerate; minor cobble boulder conglomerate; 11b, gray and green, medium to very coarse grained sandstone and pebble conglomerate; red, gray, brown, and green, very fine to fine grained sandstone and siltstone, arranged in well-defined fining upward sequences.
  - 10 ROCKY BROOK FORMATION: 10a, Calcareous, red and gray siltstone, gray and green mudstone; gray microcrystalline and stromatolitic, dolomitic limestone; minor red and gray, fine to medium grained sandstone; minor oil shale; 10b, calcareous gray siltstone; gray and green mudstone; gray, microcrystalline, stromatolitic, and calcitic dolomitic limestone; oil shale.
  - 9 NORTH BROOK FORMATION: 9a, Mainly red, pebble to cobble conglomerate, also gray conglomerate and red, medium to very coarse grained sandstone; 9b, mainly red, brown, and reddish gray, fine to very coarse grained sandstone, minor conglomerate and siltstone; 9c, mainly gray and reddish gray, medium to very coarse grained sandstone and red siltstone arranged in well-defined fining upward sequences; 9d, mainly red, very fine to medium grained sandstone and red siltstone.
  - 8 Very fine to coarse grained, gray, green, and red sandstone; green and red siltstone; gray pebble conglomerate and pebbly sandstone; gray and black mudstone; calcareous limestone.
  - ANGULLE GROUP (5-7)
  - 7 Coarse grained arkose unit: Mainly very fine to medium grained, dark gray sandstone, dark gray siltstone, black mudstone, but with thick bedded, gray and pink, coarse to very coarse grained arkose and pebble conglomerate, minor gray microcrystalline limestone.
  - 6 Gray sandstone unit: Very fine to fine grained, dark gray sandstone, dark gray siltstone, and black mudstone; all of above alternating with light gray, medium to very coarse grained sandstone; minor pebble conglomerate, calcareous siltstone and sandstone, gray microcrystalline limestone, limestone breccia.
  - 5 Tan carbonate unit: Mainly very fine to fine grained, dark gray sandstone, dark gray siltstone, black mudstone, and light gray, medium to coarse grained sandstone, but with thin to medium bedded, tan and orange carbonate interbedded with dark gray siltstone and black mudstone.
- PRE-CARBONIFEROUS**
- 4 Green and gray schistose metaconglomerate, metasediment, green chloritic schist.
- SILURIAN-DEVONIAN**
- 3 Fine to medium grained, gray and pink, equigranular granite with minor amounts of muscovite and hornblende.
  - 2a, Massive and pillowed, amygdaloidal, dark gray and green, mafic to intermediate volcanic rocks, some felsic; 2b, red, pink, and gray felsic to intermediate volcanic rocks, mainly welded tuff, nonwelded lapilli tuff and agglomerate; minor sandstone.
- ORDOVICIAN AND/OR OLDER**
- 1 1a, Gray, buff, and black marble, minor chlorite schist; 1b, quartz-mica schist, quartzite, phyllite.

- SYMBOLS**
- Anticline (overturned) .....
  - Drift covered area .....
  - Rock outcrop, area of outcrop, float, outliers of Carboniferous (?) carbonate conglomerates, calcareous, or karstic carbonates .....
  - Geological boundary (defined, approximate, assumed, gradational) .....
  - Unconformity .....
  - Unconformity with thin, Carboniferous (?) carbonate conglomerates, calcareous, and paleokarstic limestones .....
  - Bedding, tops known (inclined, vertical, overturned, horizontal) .....
  - Bedding, tops unknown (inclined, vertical) .....
  - Strike of bedding, dip unknown .....
  - Foliation (inclined) .....
  - Fault (defined, approximate, assumed), square gives dip direction with amount of dip, solid circle on downthrown side .....
  - Anticline (plunge determined, plunge direction known, unknown), barb gives axial plane dip direction .....
  - Antiform .....
  - Syncline .....
  - Synform .....
  - Anticline and syncline (assumed) .....
  - Fossil locality (plant, fish, ichnofossil) .....
  - Age from spores (Tournaian, Viséan, Namurian, Westphalian A) .....
  - Rock quarry (active, abandoned) .....
  - Shaft (abandoned) .....
  - Borehole (no coal intersected, with coal intersection, aggregate thickness of coal seams greater than 15 cm) .....
  - Scintillometer anomaly (probably uranium, in covered area, in Carboniferous?) outlier .....
  - Mineral occurrence (malachite, chalcocyanite, bitumen, shale oil, coal fragments, gypsum) .....
  - Show of gas (abandoned) .....
  - Dry hole (abandoned) .....
  - Trace of coal seam in abandoned trench .....

Geology by R.S. Hyde (party chief) and M. Ware (senior assistant), assistance from H. Russel and J. Blagdon.

Age determinations from spores by M.S. Bars (GSC, Dartmouth, N.S.).

Gas well information from Fleming (1970). Coal boring locations and data mainly from Hayes (1948).

This map may be subject to revision and correction.

Geological cartography by Mineral Development Division, Department of Mines and Energy, Government of Newfoundland and Labrador.

Copies of this map may be obtained from the Publications and Information Section, Mineral Development Division, Department of Mines and Energy, P.O. Box 4750, St. John's, Newfoundland A1C 5T7.

Base map at same scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, 1972.

Elevation in feet above mean sea level.

Approximate magnetic declination, 1969, for centre of map 29° 14' west, decreasing 3.0' annually.

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LONG RANGE MOUNTAINS  
DEER LAKE & RAINY LAKE  
(west half)

Scale 1:50,000 Echelle 1:50,000

MAP 81-17