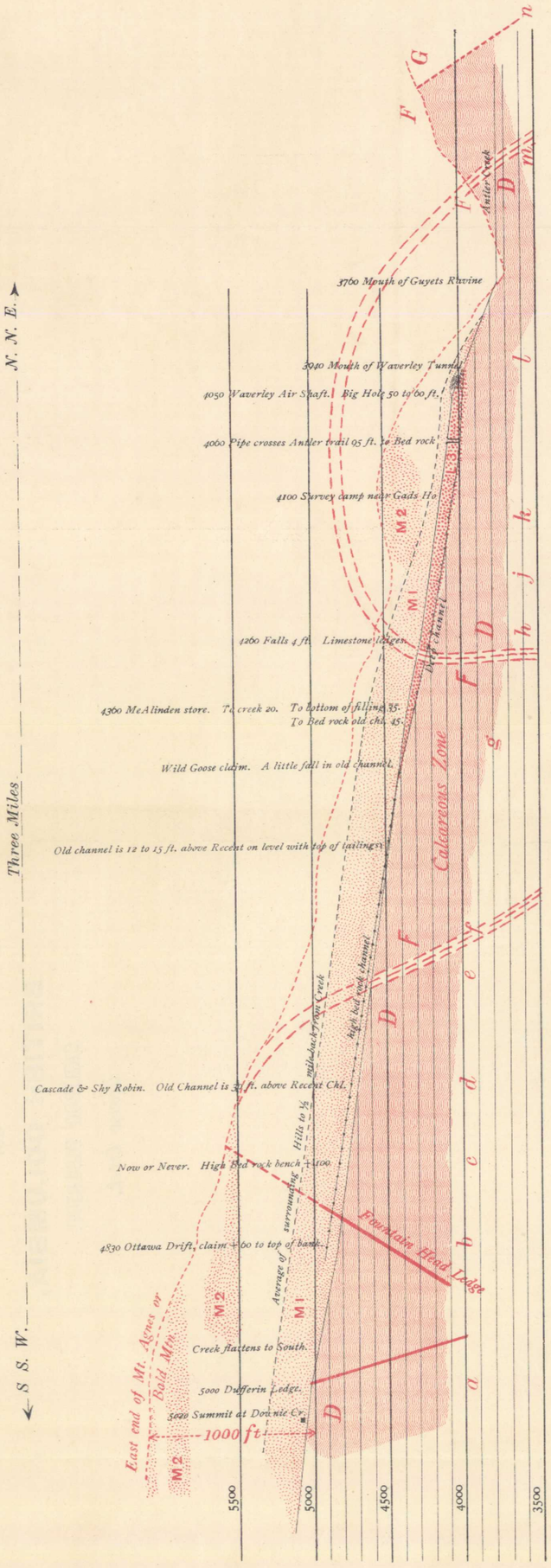
Geological Survey Department,
Canada.

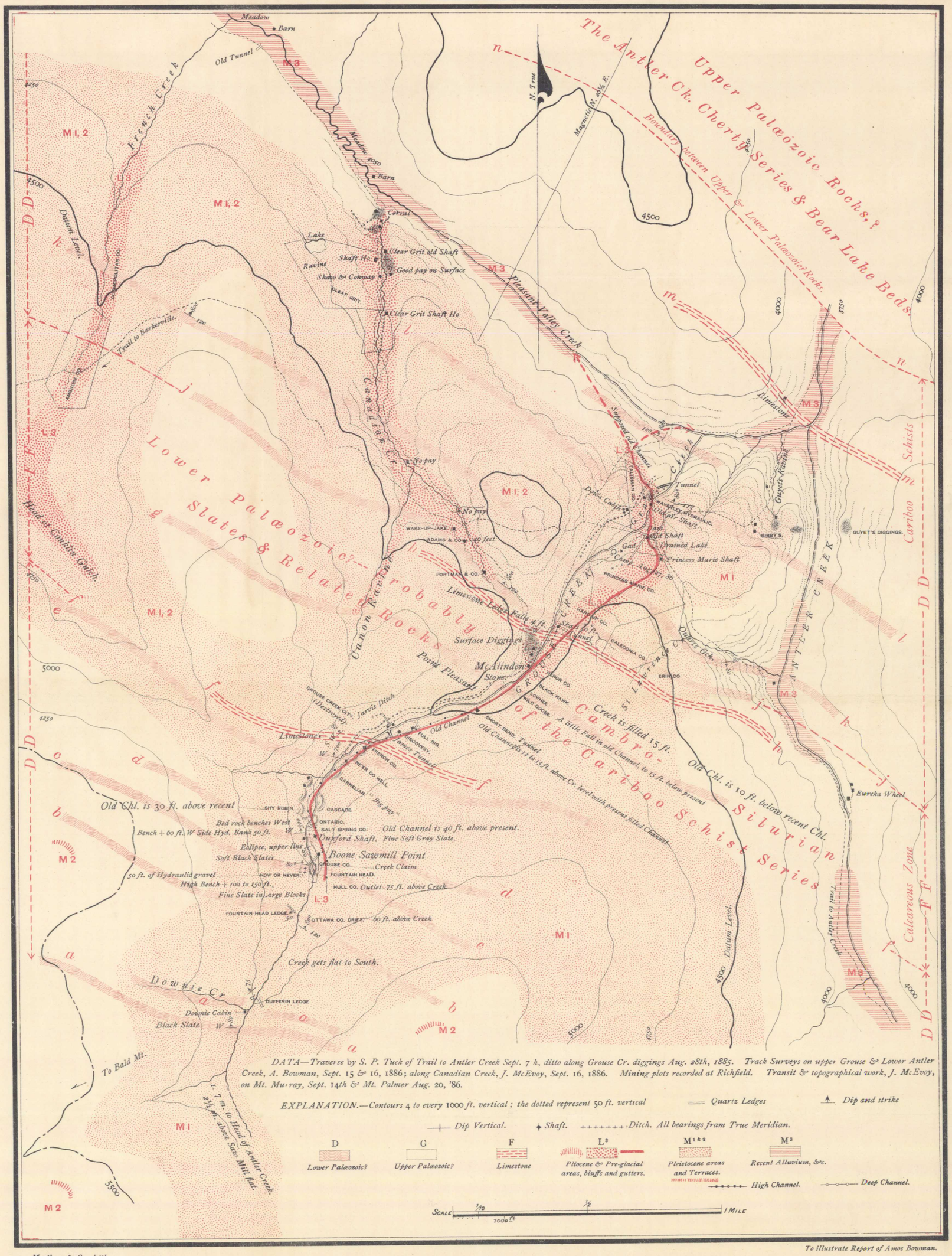
ALFRED R.C. SELWYN, C.M.G., LL.D., F.R.S., &c. DIRECTOR.



The richest placer mines were associated with the Limestone & Calcareous Zone

SECTION ALONG GROUSE CREEK.

On same scale as Map. Vertical scale exaggerated 5 times to 1 of horizontal scale.



DATA—Traverse by S. P. Tuck of Trail to Antler Creek Sept. 7 h, ditto along Grouse Cr. diggings Aug. 28th, 1885. Track Surveys on upper Grouse & Lower Antler Creek, A. Bowman, Sept. 15 & 16, 1886; along Canadian Creek, J. McEvoy, Sept. 16, 1886. Mining plots recorded at Richfield. Transit & topographical work, J. McEvoy, on Mt. Murray, Sept. 14th & Mt. Palmer Aug. 20, '86.

EXPLANATION.—Contours 4 to every 1000 ft. vertical; the dotted represent 50 ft. vertical — Quartz Ledges — Dip and strike — Dip Vertical. — Shaft. — Ditch. All bearings from True Meridian.

D	G	F	L3	M1&2	M3
Lower Palaeozoic?	Upper Palaeozoic?	Limestone	Pliocene & Pre-glacial areas, bluffs and gutters.	Pleistocene areas and Terraces.	Recent Alluvium, &c.

High Channel. — Deep Channel.

Scale 1/10 1/2 1 Mile 7000 ft

Mortimer & Co., Lith.

To illustrate Report of Amos Bowman.

SUPERFICIAL GEOLOGY.

L3. The Pliocene and Pre-glacial detritus here represented is usually only that found below the present drainage levels, in the principal creek bottoms, as exposed by mining shafts and drifting; not including that exposed at higher levels by slides and by hydraulicing, which is indicated by heavy hachures to represent banks, bluffs, or slides. The solid red line represents the lowest known erosion or gutter of the tertiary stream.

M1, 2. The Pleistocene Hill and Mountain gravels, and other detrital deposits are (1) of the earliest silting up period (in part later pliocene); and (2) of the final subsidence or flooding period, commonly recognized as later glacial or diluvial; the latter in Cariboo are entirely above present drainage levels. They are often water levelled, and were left superficially terraced by the Pleistocene receding waters. The terraces are indicated by short light hachures.

M3. Recent Alluvium.

THE COUNTRY ROCKS.

D. The Lower Palaeozoic? rocks as indicated, are believed to range from Cambro-Silurian and perhaps Cambrian to Silurian, and are the slates and related rocks of the country—briefly, the Cariboo Schists.

G. The Upper Palaeozoic? rocks are believed to range from the Devonian to Carboniferous, or the "Cache Creek" horizon; they are the "Antler Creek" chert series, and the Bear Lake beds.

F. The Limestone bands observed and noted in the Lower Palaeozoic? formations, are lithologically alike, and in their attitude, as represented in the section, suggest a possible folding.

SURVEYS CARRIED OUT with the CO-OPERATION of the PROVINCIAL GOVERNMENT of BRITISH COLUMBIA.
The Hon. JOHN ROBSON, Minister of Mines.

IN 1885-6.

Quartz Veins & Placer Diggings

in the vicinity of

GROUSE CREEK

CARIBOO DISTRICT, BRITISH COLUMBIA.

SURVEYED AND DRAWN BY
AMOS BOWMAN, MINING ENGINEER.
ASSISTED BY JAMES McEVOY, B. A. P. Sc.