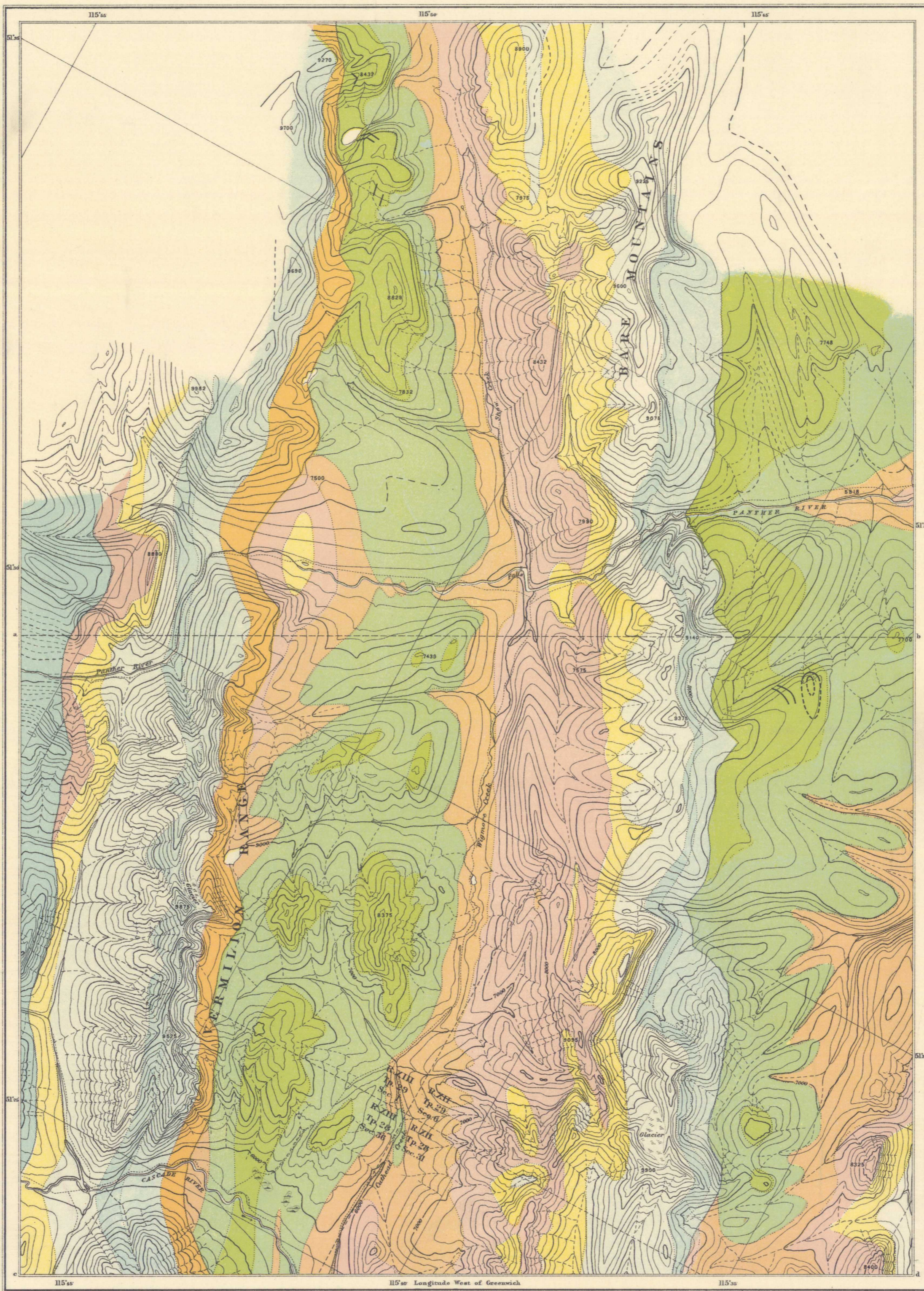


Cross-Section along line a-b

Explanation of Colours and Signs

- Cretaceous**
- Upper Ribbed Sandstone (Dakota)
- Kootenai Coal Measures
- Kootenai Lower Ribbed Sandstone
- Jurassic**
- Fernie Shale
- Permian (?)**
- Upper Banff Shale
- Carboniferous**
- Rocky Mountain Quartzite
- Upper Banff Limestone
- Lower Banff Shale
- Lower Banff Limestone
- Devonian**
- Intermediate Limestone
- Silurian and Cambrian**
- Castle Mountain Group
- Geological Boundaries
- do do (undotted)
- Faults
- 7785 Heights in feet above sea-level
- Coal Seams
- Contour Interval, 200 feet



GEOLOGICAL NOTES

Upper Ribbed Sandstone. - Near Hanksville this consists of 550 feet of thin bedded sandstones and brown shales. Near the base the sandstone beds are thick and coarse in texture.

Kootenai Coal Measures. - 2000 feet of sandstone and brown and black shales. The lowest coal seam is above a heavy bed of sandstone.

Kootenai Lower Ribbed Sandstone. - Similar to those above the coal measures. On Cascade river the thickness is 1000 feet but it lies to the south.

Fernie Shale. - Shaly shales with grayish sandstone in thin beds in lower part. 1600 feet on the Cascade river represents the general average thickness.

Upper Banff Shale. - 100 feet of dolomitic limestone caps 1000 feet of reddish and brownish shales; the latter, near the base, are almost fine grained sandstone.

Rocky Mountain Quartzite. - Light yellowish and almost white fine grained sandstone 1600 feet.

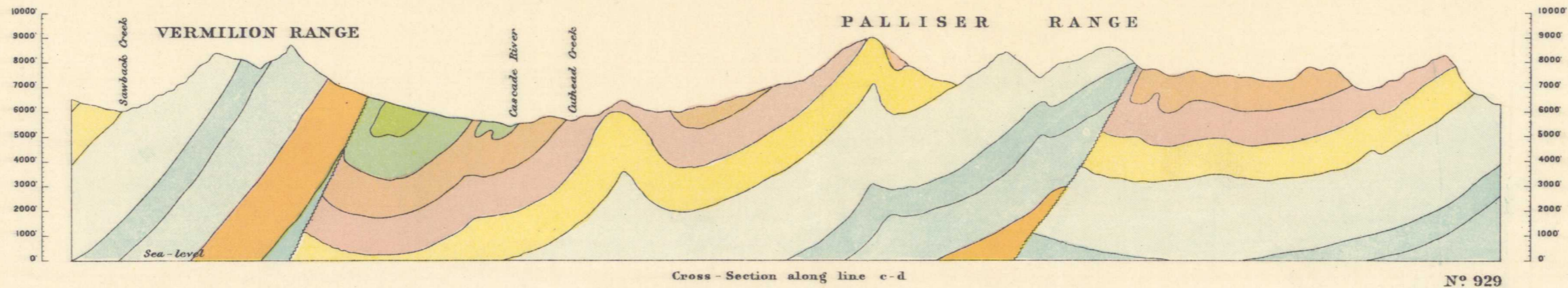
Upper Banff Limestone. - Bluish white limestone generally thin bedded. Dark shale bands appear near the base. Thickness varies from 250 to 2000 feet.

Lower Banff Shale. - Dark shales with thin limestone bands. The lower part is generally a heavy bed of brownish weathering shale. Thickness 1000 to 1500 feet.

Lower Banff Limestone. - Evenly bedded massive limestone weathering in bold cliffs. Total thickness about 2000 feet.

Intermediate Limestone. - Brownish dolomitic limestone. Weathered surface yellowish in colour. Total thickness about 1500 feet.

Castle Mountain Group. - The rocks referred to this formation, on the Panther river are thin bedded shaly limestones with zones of copper ores.

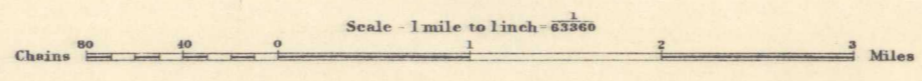


Cross-Section along line c-d

C.O. Semmes, B.A.Sc. Geographer & Chief Draughtsman.

Geological Map of the
CASCADE COAL BASIN
ALBERTA
Sheet 1, Panther River
To illustrate Report by
D. B. DOWLING, B.A.Sc.

Sources of Information
Photographic surveys by D.B. Dowling 1904,
and maps of the Topographical Survey Branch,
Department of the Interior, 1859-90.
Compilation by H. LeFebvre, B.A.Sc.



Panther River

5.1.1
A. Geol

NOT TO BE TAKEN FROM LIBRARY
NE PAS SORTIR DE LA BIBLIOTHÈQUE

929 1907