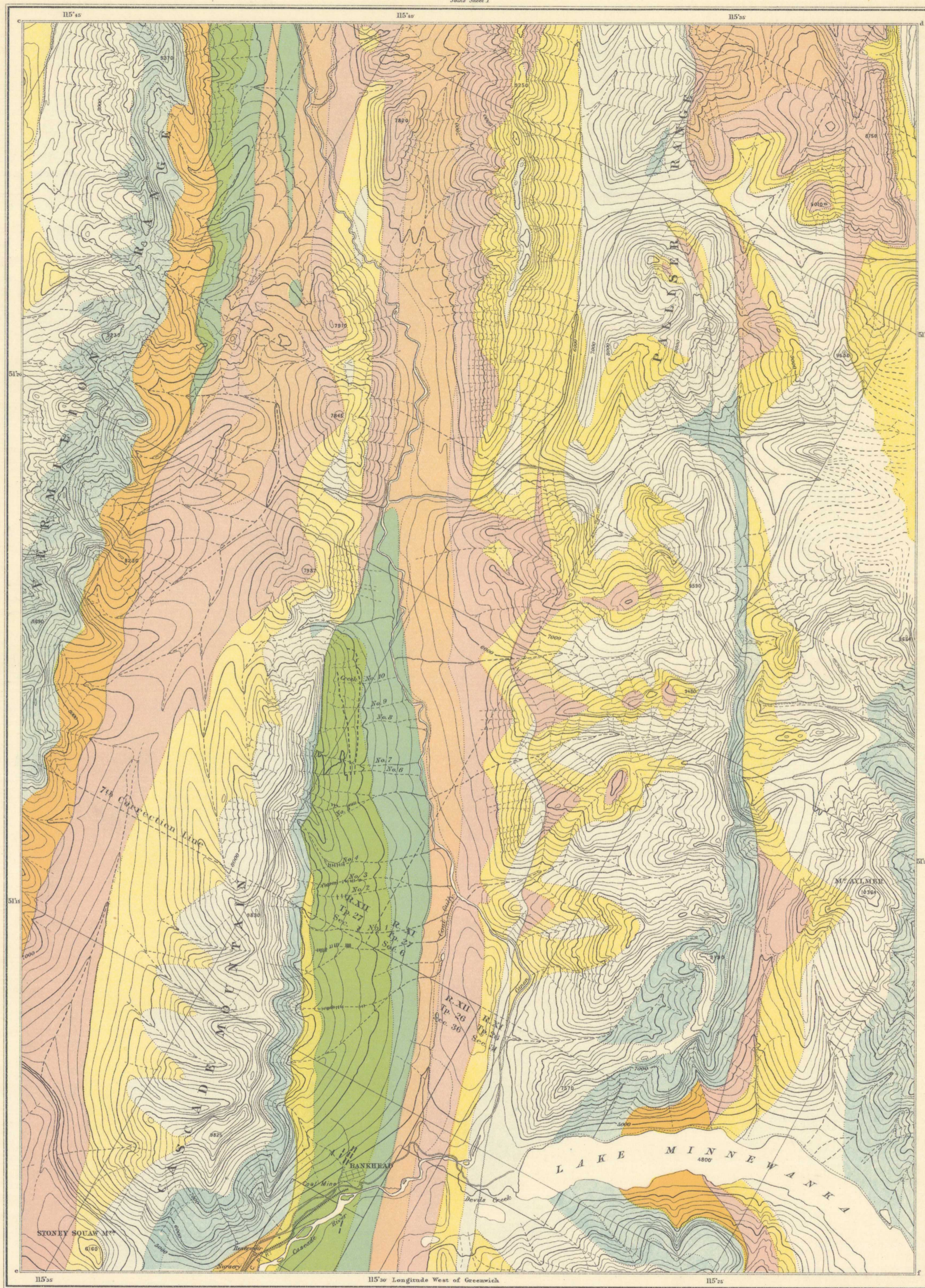


Cross-section along line c-d

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 (undefined)
 - Faults
 - 7785 Heights in feet above sea-level
 - Coal Seams
 - Contour Interval, 200 feet



GEOLOGICAL NOTES

Upper Ribbed Sandstone. - Near Bankhead this consists of 550 feet of thin bedded sandstones and brown shales. Near the base the sandstone beds are thicker and coarser 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 is less to the south.

Fernie Shale. - Black shales with grayish sandstone in thin beds in lower part. 600 feet on the Cascade river represents the general average thickness.

Upper Banff Shale. - 100 feet of dolomitic limestone caps 1200 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 5000 feet.

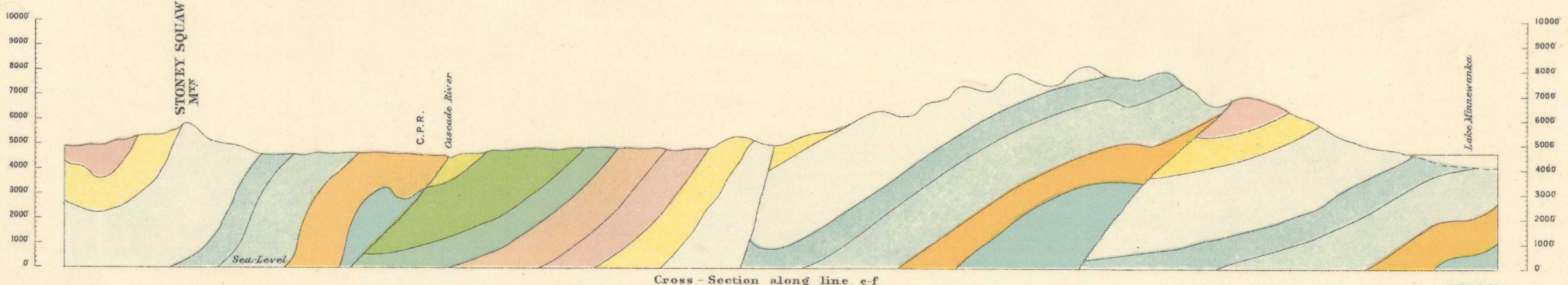
Upper Banff Limestone. - Bluish white limestone generally thin bedded. Dark shale bands appear near the base. Thickness varies from 2500 to 3000 feet.

Lower Banff Shale. - Dark shales with thin limestone bands. The lower part is generally a honey combed brownish sandstone shale. Thickness 1000 to 1500 feet.

Lower Banff Limestone. - Massive limestone beds evenly bedded weathering in bold cliffs. Total thickness about 2000 feet.

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

Castle Mountain Group. - The rocks referred to in this formation, on the Peavler river, are thin bedded shaly limestones with traces of copper ore.



Cross-section along line e-f

C.O. Seesed, B.A.Sc. Geographer & Chief Draughtman.

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Geological Map of the
CASCADE COAL BASIN
ALBERTA

Sheet II, Cascade River
To illustrate Report by
D. B. DOWLING, B.A.Sc.

Sources of Information
Maps of the Topographical Survey Branch, Department of Interior, 1883-90, with minor additions by D. B. Dowling
Compilation by H. LeFebvre, B.A.Sc.

Scale - 1 mile to inch - 43200
Chains 0 100 200 300 400 500 600 700 800 900 1000
Miles 0 1 2 3 4 5

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