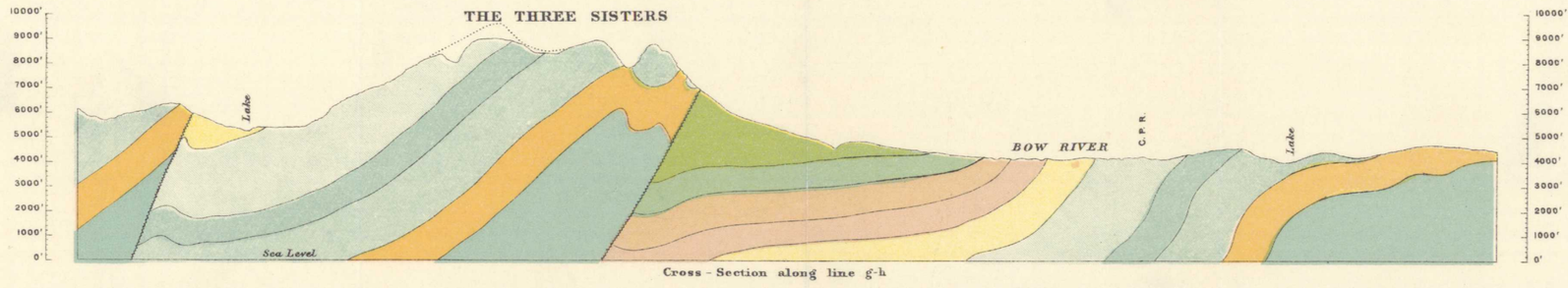
Geological Survey of Canada

A. P. LOW, B.A.Sc., DIRECTOR.

1907.



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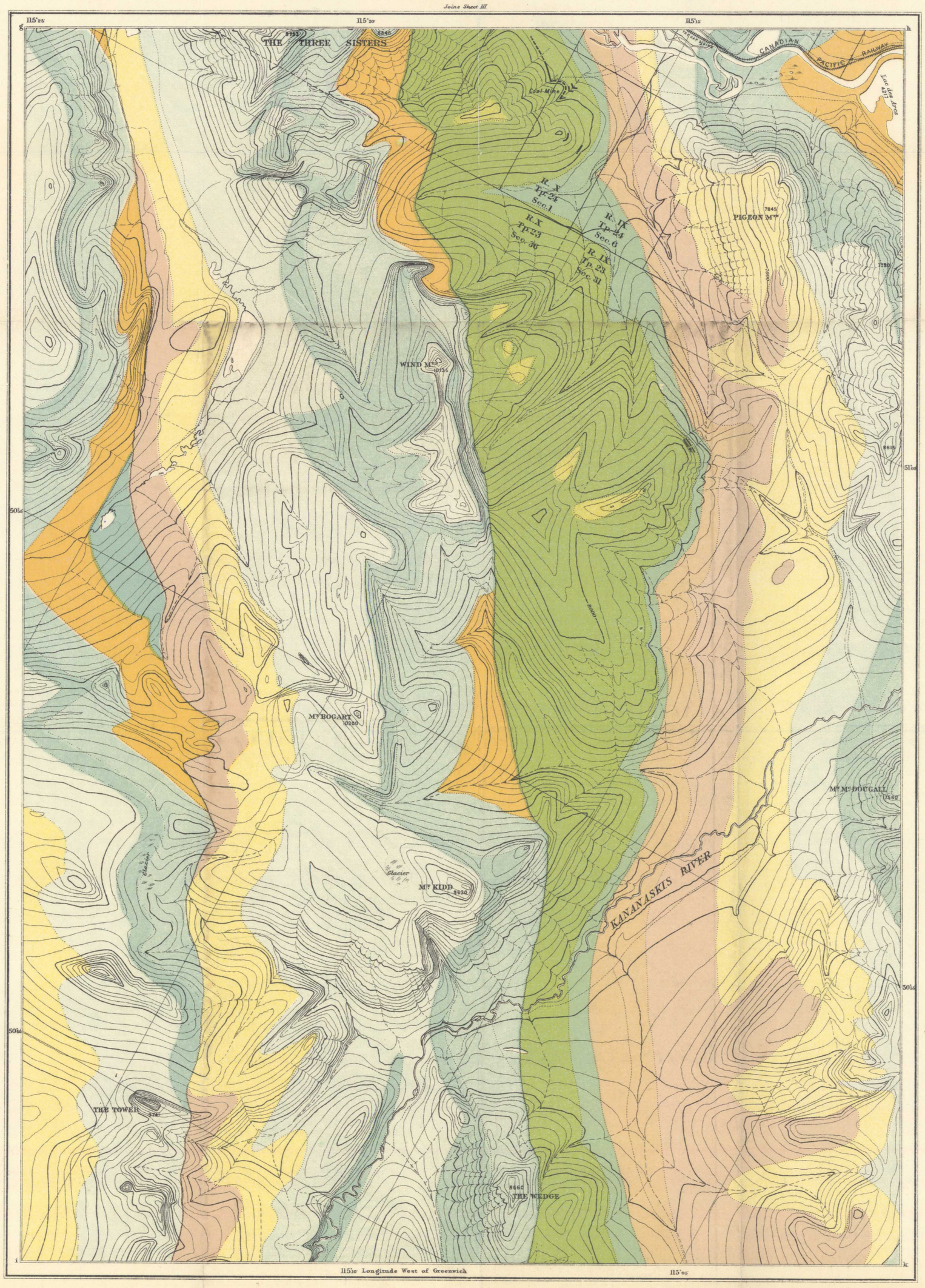
Joins Sheet III



Explanation of Colours and Signs

Cretaceous

- *Upper Ribboned Sandstone (Dakota)*
- *Kootanie Coal Measures*
- *Kootanie Lower Ribboned 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*
- 7765 *Heights in feet above sea-level*
- *Coal Seams*

Contour Interval, 200 feet

GEOLOGICAL NOTES

Upper Ribboned 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.*

Kootanie Coal Measures. – *2800 feet of sandstone and brown and black shales. The lowest coal seam is above a heavy bed of sandstone.*

Kootanie Lower Ribboned Sandstone. – *Similar to those above the coal measures. On Cascade river the thickness is 1100 feet but is less to the south.*

Fernie Shale. – *Black shales with greyish 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 1200 feet of reddish and brownish shales; the latter, near the base, are almost fine-grained sandstones.*

Rocky Mountain Quarzite. – *Light yellowish and almost white fine-grained sandstone 1600 feet.*

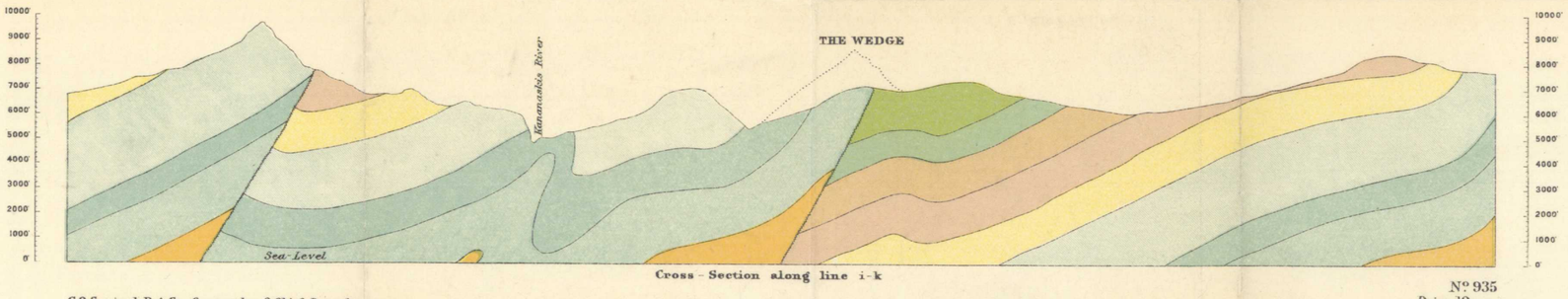
Upper Banff Limestone. – *Blueish white limestone generally thin-bedded. Dark shale bands appear near the base. Thickness varies from 2500 to 3000 feet.*

Lower Banff Shale. – *Dark shales with thin limestone bands. The lower part is generally a heavy band 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 surfaces 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 traces of copper ores.*



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C.O. Senécal, B.A.Sc. *Geographer & Chief Draughtsman.*

Nº 935
Price 10 cts.

Geological Map of the
CASCADE COAL BASIN
ALBERTA

Sheet IV, Wind Mountain

To illustrate Report by

D. B. DOWLING, B.A.Sc.

Scale - 1 mile to 1 inch = 1/63360

Chains 80 40 0 1 2 3 Miles

Sources of Information

Phototopographic surveys by D.B. Dowling, 1904, and maps of the Topographical Surveys Branch, Department of the Interior, 1889-90.
Compilation by H. Lefebvre, B.A.Sc.