Geological Survey of Canada

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1902.

GEOLOGICAL and TOPOGRAPHICAL MAP of the ATLIN MINING DISTRICT BRITISH COLUMBIA

To illustrate report by

J.C. GWILLIM, B.Sc.

Natural scale – 253,440

Scale 4 statute miles to 1 inch

1 0 5 10 15

Contour interval 500 feet
Broken contours approximate

SOURCES OF INFORMATION

Instrumental and track surveys of Taku Arm, Atlin Lake creeks, lakes and mountain features etc by J.C.Gwillim B.Sc., and W.H.Boyd, D.L.S., Geological Survey 1899-1900.
Teslin Lake and northern boundary of British Columbia from surveys by A.Saint-Cyr, D.L.S., Topographical Surveys Branch Department of the Interior 1898-1900.
Surprise Lake, Pine Creek, and part of east shore of Atlin Lake, from survey by J.H.Brownlee, D.L.S., 1898.
Telegraph line from survey by A.Boyer, D.L.S., Department of Public Works, 1901.

GEOLOGICAL NOTES.

1. *Black argillite and grey silvery calc schist.*
2. *Terraces composed of fine material at 10, 20, 40, 50, 80 and 240 feet above Taku Arm.*
3. *Contact of crystalline limestone with black shale. Contact S. 60° E., dip 45° N.E.*
4. *Greenstone, probably diabase.*
5. *Dark well-banded sandstone. Strike N. 45° W., dip 78° S.W.*
6. *Conglomerate dark matrix, large granite and limestone boulders. Strike S. 70° W., dip 40° S.E.*
7. *Hornblende schist containing quartz veins.*
8. *Coast granite, contact with Palæozoic schist.*
9. *Rather soft slate. Strike S. 30° W., dip 20° S.E.*
- 9a. *Glacial grooves, N. 30° E.*
10. *Magnesite, diorite, greenstone.*
11. *Porphyrite, augite, andesite, etc.*
12. *Hornblende, porphyrite.*
13. *Granite and quartzite overlain by regular terrace deposits.*
14. *Contact of greenstone with granite.*
15. *Serpentinized rocks.*
16. *Interior portion indefinite, probably sandstone and porphyrite.*
17. *North slope of anticline. Strike S. 52° E., dip 55° N.E.*
18. *Soft grey stratified rocks, also cherty breccia.*
19. *Grey-green eruptives, hornblende schist, and quartzite.*
20. *Grey-green eruptives and serpentine, also quartzite.*
21-22. *Granite intrusions through cherty quartzite.*
23. *Probable granite intrusions through cherty quartzite and limestone.*
24. *Eruptive rocks of many varieties, often dark fine-grained porphyrites.*
25. *Dunite, serpentine, actinolite, slate, and granular limestone (Gold Series).*
26. *Greenstone intrusions through quartzite.*

Explanation of Colours and Signs

Cenozoic	I	*Scoria and basalt, Tertiary*
	II	*Granite porphyry*
	III	*Sandstone and conglomerate chiefly pyroclastic Jurassic(?)*
Mesozoic	IV	*Porphyry, andesite and basalt.*
	V	*Granite,*
	VI	*Greenstone magnesite, serpentine peridotite and actinolite slate, Gold Series*
	VII	*Crystalline limestone, probably Carboniferous.*
Palæozoic	VIII	*Cherty quartzite, black slate, biotite slate, and limestone.*
	IX	*Quartzite, hornblende and chloritic schist and crystalline limestone.*
		Valleys producing Gold in 1899-1900
	1,5,10 etc	*References to geological notes*
	6000'	*Altitudes in feet above sea-level.*

Longitude West 133°15' from Greenwich

C.O.Senécal, B.A.Sc., Geographer & Chief Draughtsman.
W.H.Boyd, B.A.Sc., Draughtsman.

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