GEOLOGICAL & NATURAL HISTORY SURVEY OF CANADA
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NOTE.—*Longitude of Fort Selkirk as shown on this map 137° 30' 22", obtained by chronometers, and observations as noted in Appendix VII., from Wrangell by way of Stikine, Dease, Liard, Frances and Pelly Rivers. Longitude of Fort Selkirk resulting from Mr. W. Ogilvie's observations near the 141st meridian and traverse connecting Fort Selkirk with his observation point 137° 22' 16". This result was not available till after the completion and engraving of the map. Differences between the two positions thus independently determined 216 yards.*

GOLD is found in river-bars to a greater or less extent along the whole course of the Upper Pelly River. Some remunerative mining has been carried on below the mouth of the Macmillan.

GOLD. River-bar mining has been carried on during the past few years in many places along the Lewes, but the richest bars are comprised within a distance of seventy miles from the mouth of the Tes-lin-too, down stream. Of these, Cassiar Bar has been the most productive, and is reported to have yielded as much as $30 a day to the hand in 1886. Gold in paying quantities is also found all along the Tes-lin-too, and encouraging "prospects" are reported to have been obtained in a number of places on the Big Salmon.

NOTE. The Cretaceous and Laramie rocks here seen on Lewes River may connect, to the east, with those noted on the Upper Pelly.

Cretaceous areas approximately defined are shown by horizontal ruling.

W. side of L. Labarge chiefly limestone (Carboniferous?) with troughs of Cretaceous rocks folded in.

This region is probably in the drainage-basin of White River.

These Mountains appear to be granitic.

Positions of these mountains uncertain.

Approximate Eastern border of granites and granitoid rocks.

Adopted from Krause's map. The valleys are probably shown too wide.

On west side of Chilkoot Inlet at Haines, coarse green and grey diorite or hornblendic granite, probably intrusive. South of Haines, to Seduction Point, altered volcanic rocks of varied texture, generally greenish and probably diabases. Closely resemble rocks of Vancouver series. (Sixth Annual Report, 1885). At × grey, rusty-weathering gneiss replaces granites of east shore of Inlet. Dip about E.N.E., < 25° to 30°. In some places this is quite evidently formed by the alteration of a fragmental rock, probably an agglomerate. From these exposures, south along shore to edge of map, green altered volcanic rocks like those above described. A short distance south of edge of map, these are followed by blackish argillites, which form the shore to Berners Bay.

CHILKOOT PASS. The rocks between Lake Lindeman and the head of Taku Inlet, are practically all granitic, generally hornblendic and grey, but often porphyritic with pink orthoclase. These are cut in places by dark green-grey dykes—probably diabase. Near the summit the granite is brecciated and shattered, and there is a considerable mass of coarse blackish diorite. South of the summit, rocks of gneissic appearance are occasionally found, and pass locally into mica-schists.

Lignite and soft shaly rocks abundant on bars below mouth of Big Salmon. Probably derived from a Laramie basin not far up that river.

Note: Lewes River near confluence 320' wide. Current 5·66 miles per hour, discharge 18,864 cubic feet per second.
Tes-lin-too River 575' wide, current 3·18 miles per hour, discharge 11,426 cubic Feet per second. August 21-27.

Note: Miles Cañon ¾ m. long, about 100' wide, perpendicular walls 40 to 50'. White Horse Rapid ¾ m. long, very rough, total fall in Cañon and Rapid 32'. Portage on E. bank at Cañon, on W. bank at Rapid.

Note: Lewes River 320' wide, 5' deep in centre, current about 2 miles per hour, clear bluish water.

Diabase Range

Limestone Range

Limestone

Limestone

Cretaceous rocks here indeterminate

Indian Trail 2 days with packs

Indian Trail

Reported Indian Trail

Probable Inland Continuation of Coast Ranges.

Plateau of brownish basalt. Several Superposed Flows.

Bedding in hills nearly horizontal.

Probable outline of Cretaceous area.

Tatlmain Lake?

Valley of Von Wilczek often 4-5 miles per hour

Indian Hamlet

Indian Hamlets

Tatchun R. Stream 30' x 6' 1 m. 50 brown water.

Tantalus Butte

Eagle's Nest

Granite

Granite

*Granite