Map of Northern British Columbia and the Peace River Country. G.M. Dawson. Geological Survey of Canada, 1879-80. Sheet I. Gneissic, granitic and schistose rocks of the Coast Ranges Cretaceous rocks of the Skeena and Babine Portage, Sandstones, Argillites and Volcanic materials with impure granitic masses with 'Cache Creek,' and 'Cache Creek' Tertiary volcanic outliers. Rocks of Stuart Lake. MAP LIBRARY / CARTOTHEQUE (Carboniferous.) LIBRARY | BIBLIOTHEOM Geological Survey of Canada July 29 1991 ALFRED R.C. SELWYN, LL.D., F.R.S. DIRECTOR. GEOLOGICAL SURVEY COMMISSION GEOLOGIQUE BRITSH GOLIMBIA ENORTH WEST TERRITORY - From the PACIFIC OCEAN®FORT EDMONTON. To Illustrate Report by George M. Dawson, D.S., A.R.S.M., F.G.S. 1879-80. Compiled & Drawn by W. Bell Dawson, Ma.E., Assce M.Inst.C.E. Natural Scale 506,880. Heights are stated in feet above the sea level. Those underlined thus, (1908) have been accurately determined. Those marked thus, (2500) depend on the assumed height of Stuart Lake. Those marked thus, (2251) on that of Dunvegan. Rugged, mountainous country. Numerous glaciers. Upper limit of forest at 5000 feet. SOURCES OF INFORMATION. The Coast, chiefly from Admiralty Chart 1923 A. North bank of Skeena, from Wark Inlet to the Zymoetz, from Railway Location Survey by G. A. Keefer (1879). South bank of lower Skeena and upper Skeena to the Forks, with tributaries, from track surveys by H. J. Cambie (1877). Watson-kwa Valley and trail to Fraser Lake, from surveys of the Telegraph Company (1866). Region north of the Babine Pass and east to Germansen Landing, including Tacla and Bear Lakes, from instrumental and track surveys by C. Horetzky (1879). Babine and Stuart Lakes, chiefly from track surveys by G. M. Dawson (1870). Region south of Stuart Lake from the Head of Francois Lake to Fort George, adopted from Geological Survey Map of 1875-76. Trail from Stuart to McLeod Lakes, with Crooked River, Lower Pine River, and the Parsnip and Peace Rivers to mouth of Smoky River, chiefly from Geological Survey Map of 1875, by A. R. C. Selwyn, but corrected (with the exception of Crooked River and Lower Pine River) by the traverses of Messrs. MacLeod and Cambie (1879). Upper Parsnip and Bad Rivers, from Sir A. Mackenzie's Journal (1793). Region between Fort George and South Fork of Fraser, from Canadian Pacific Railway Survey Plans. North Fork of Fraser and Upper Smoky River, from traverse by E. W. Jarvis (1874). Trail by Rocks of the Skeena from the 'Forks' to Bubine River chiefly fine grey sandstones, hard, and often calcareous. Misinchinca and Pine Rivers, &c., to Dunvegan, from track survey by G. M. Dawson (1879), with additions from track surveys by J. Hunter (1877) and H. A. F. MacLeod (1879). Region north of Peace River, from track surveys by H. J. Cambie and R. G. McConnell (1879). District between Peace and Smoky Rivers, from track surveys by G. M. Dawson and H. A. F. MacLeod (1879). Wapiti and Smoky Rivers, Athabasca River from Drift Pile Camp to Landing and Lesser Slave River, from canoe traverses by G. M. Dawson (1879). Region between Smoky River, Lesser Slave Lake and the Athabasca, from track surveys by H. J. Cambie, H. A. F. MacLeod and G. M. Dawson (1879). Trail from Drift Pile Camp to Dirt Lake, from track survey by H. A. F. MacLeod (1879). Lesser Slave Lake and trail from Lesser Slave River to Fort Assineboine, and route from Athabasca Landing, via Rivière and Lac la Biche to Victoria, by R. G. McConnell (1879). Trail from Athabasca Landing to Edmonton, from track survey by G. M. Dawson (1879). Trail from Fort Saskatchewan eastward to Vermilion River, &c., from track survey by H. A. F. MacLeod and G. M. Dawson (1879). Saskatchewan River from traverse by A. R. C. Selwyn (1873). Regions not covered by the above surveys filled in from various published maps and plans, and according to report of Indians and others. Camps with dates attached are those of G. M. Dawson or Assistant R. G. McConnell (1879). BABINE RANGE. From the 'Forks' to Babine Lake, by the trail, the rocks are all Mesozoic, and probably Cretaceous in age. The strike is generally north and south, but irregular. A. Sandstones and hard shales, sometimes carbonaceous. B. Hard sandstones with obscure vegetable impressions and ocks of contemporaneous volcanic origin. From the head of tide to Kitsumgallum, the river spreads in many channels among low, flat islands. The current is uniformly swift. It has been accended with difficulty by stern-wheel steamers to about two miles above Kitsumgillum. The valley is from 11/2 to 2 miles wide between the bases of the mountains. From Kitsumgallum to the 'Forks' the current is more rapid, and there are several impediments to canoes or boats ascending. At Sīp-ki-āw Fall, or Rapid, an abrupt descent of several feet renders a portage or demi-portage necessary. At Kwatsalix, canoes or boats are usually tracked up the rapids, the targoes being carried a variable distance overland. The remaining rapids can generally be tracked up without unloading. With the exception of a few places, the valley above Kitsumgallum still continues wide, and near Kit-wan-ga opens out to a width of several miles and offers some arable land. From the coast to near the Kitsumgallum River, the rocks seen on the Skeena are gneissic or highly crystalline schists with granite, and belong to the metamorphic series of the Coast Ranges. Above this point Mesozoic rocks, with occasional granitic intrusions, prevail. They are at first almost exclusively volcanic in origin, and represent the 'Porphyrites' of former reports, but further up are largely replaced by hard sandstones and argillites. Trail to Nasse PORCHER I. FRASER L. The Burland Lithographic Co. Montreal.