

CONTENTS.

	CHAPTER I.	CHAPTER II.	CHAPTER III.	CHAPTER IV.	CHAPTER V.	CHAPTER VI.	CHAPTER VII.	CHAPTER VIII.	INDEX.
Introduction; location and transportation.....									1
Topography; climate; agriculture.....									4
Geology.....									6
Hydromagnesite; calcareous tufa.....									20
Epsomite; sodium carbonate.....									51
Clay.....									63
Diatomaceous earth; lignite; peridot; mica.....									76
Chromite; molybdenite; manganese; nickel.....									86
Gold; silver; copper; lead.....									96
Index.....									125

Illustrations.

Plate	Illustrations.	Frontispiece
I.	Epsomite lake at Clinton.....	109
II.	Fraser river at Soda creek.....	110
III.	A. Slide of the Coldwater formation at Pavilion..... B. Beds of Fraser River formation.....	110 110
IV.	Hydromagnesite deposit at Meadow lake.....	111
V.	Nodular deposit of gypsum and calcite in boulder clay above the hydromagnesite at Clinton.....	112
V1.	Detail of a portion of Plate V.....	113
VII.	East end of Kelly lake.....	114
VIII.	Calcareous tufa or travertine near Clinton.....	115
IX.	Structure of the eroded beds near Clinton.....	116
X.	Veinlets of magnesium sulphate on Scottie creek.....	117
XI.	Pools of sodium carbonate in Last Chance lake.....	118
XII.	Residual clay, Fraser canyon.....	119
XIII.	Residual clay, Bonaparte river.....	120
XIV.	Diatomaceous earth overlain by basalt, 20 miles southwest of Quesnel.....	121
XV.	Basalt on Timothy mountain.....	122
XVI.	Serpentine near Chrome creek.....	123
XVII.	Open-cut on Timothy mountain.....	124
Figure	1. Mineral occurrences, Pacific Great Eastern railway, betw Soda Creek and Prince George..... 2. Mineral occurrences, Pacific Great Eastern railway, between Lillooet and Soda Creek..... 3. Hydromagnesite near Clinton..... 4. Chemical composition of hydrous magnesium carbonate compounds..... 5. Hydromagnesite deposits at Meadow lake..... 6. Hydromagnesite deposits at Watson lake..... 7. Mode of formation of corrugated ridge - travertine..... 8. Epsomite deposit near Clinton..... 9. Idealized cross-sections of epsomite deposit near Clinton..... 10. Cross-section of Bitter lake, Kruger mountain, Washington, U.S.A..... 11. Cross-section of clay near Chimney Creek bridge..... 12. Clay and diatomaceous earth near Quesnel..... 13. Molybd-nite, peridot, and copper ore on Timothy mountain..... 14. Chromite near Chrome creek..... 15. Fracturing of serpentine near Scottie creek..... 16. Silver-lead claims near Ahbau lake..... 17. Quartz veins and tunnel near Ahbau lake..... 18. Old workings on gold claims, Hixon creek.....	Soda Creek and Prince George..... 2 3 27 33 45 47 50 52 54 55 68 70 82 87 89 99 102 104