

DEPARTMENT OF THE INTERIOR

JOHN BARTON PAYNE, Secretary

UNITED STATES GEOLOGICAL SURVEY

GEORGE OTIS SMITH, Director

Bulletin 712

# MINERAL RESOURCES OF ALASKA

REPORT ON PROGRESS OF  
INVESTIGATIONS IN

1918

BY

G. C. MARTIN AND OTHERS

OHIO STATE  
UNIVERSITY



SCHOOL OF MINES  
LIBRARY.  
OHIO STATE UNIVERSITY.  
WASHINGTON

GOVERNMENT PRINTING OFFICE

1920

QE 75

B9.

nos. 712-714

copy 4

3142 080

YTB3V8U

## CONTENTS.

	Page.
Preface, by G. C. Martin.....	1
Administrative report, by G. C. Martin.....	3
The Alaskan mining industry in 1918, by G. C. Martin.....	11
Water-power investigations in southeastern Alaska, by G. H. Canfield.....	53
Nickel deposits in the lower Copper River valley, by R. M. Overbeck....	91
Preliminary report on the chromite of Kenai Peninsula, by A. C. Gill....	99
Mining developments in the Matanuska coal field, by Theodore Chapin....	131
Lode developments in the Willow Creek district, by Theodore Chapin....	169
Placer mining in the Tolovana district, by R. M. Overbeck.....	177
Mining in northwestern Alaska, by S. H. Cathcart.....	185
Index.....	199
Recent Survey publications on Alaska.....	I

## ILLUSTRATIONS.

	Page.
<b>PLATE I.</b> Map of the western part of Kenai Peninsula showing chromite deposits and position of detailed maps.....	100
II. Map showing chromite deposits at Claim Point, Port Chatham....	102
III. Map showing chromite deposits at Red Mountain.....	112
IV. Sketch map of workings of the Chickaloon coal mine, showing principal faults and location of coal beds.....	142
V. Coal sections at Chickaloon mine and on property of Chickaloon Coal Co.....	150
VI. Topographic map of country around Eska coal mines, showing faults.....	152
<b>FIGURE 1.</b> Geologic reconnaissance map of Canyon Creek and vicinity....	92
2. Sketch of bluff on Chickaloon River above Chickaloon mine....	149
3. Structure sections at Eska coal mines.....	161
4. Map of Baxter mine showing faults.....	165
5. Map of Willow Creek district showing location of mines and prospects.....	170
6. Sketch showing placer deposits on Poorman bench, Monument Creek.....	190
7. Sketch showing results of thawing by hot water and steam at boiler temperature.....	191
8. Sketch showing results of thawing by superheated steam.....	191
9. Sketch showing results of thawing by water at stream temperature.....	192
10. Sketch showing prospect on Kugruk River a quarter of a mile east of the mouth of Independence Creek.....	195

