

**BULLETIN NO. 5. PART I: GEOLOGY AND  
ORE DEPOSITS OF THE MYERS CREEK  
MINING DISTRICT; PART II: GEOLOGY  
AND ORE DEPOSITS OF THE OROVILLE-  
NIGHTHAWK MINING DISTRICT**

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**JOSEPH B. UMPLEBY**

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WASHINGTON GEOLOGICAL SURVEY

HENRY LANDES, State Geologist

BULLETIN No. 5

PART I

Geology and Ore Deposits of the Myers  
Creek Mining District

PART II

Geology and Ore Deposits of the Oroville-  
Nighthawk Mining District

By JOSEPH B. UMPLEBY



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LETTER OF TRANSMITTAL.

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*Governor M. E. Hay, Chairman, and Members of the Board of  
Geological Survey:*

GENTLEMEN—I have the honor to submit herewith a report by Joseph B. Umpleby, with the recommendation that it be printed as Bulletin No. 5 of the survey reports. It is in two parts, viz., Part I, Geology and Ore Deposits of the Myers Creek Mining District, and Part II, Geology and Ore Deposits of the Oroville-Nighthawk Mining District.

Very respectfully,

HENRY LANDES,  
*State Geologist.*

University Station, Seattle, July 1, 1911.

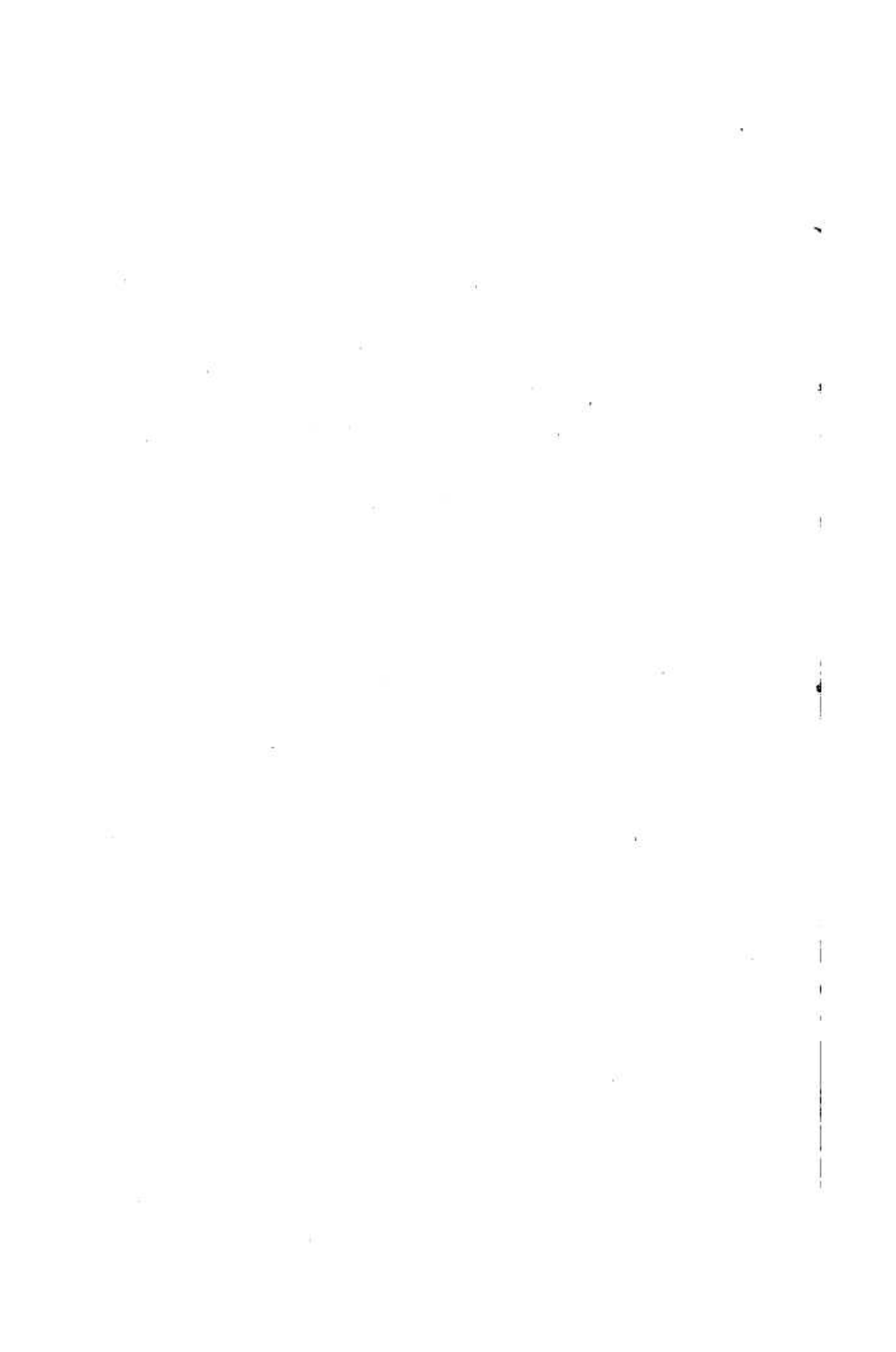
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# GEOLOGY AND ORE DEPOSITS OF THE MYERS CREEK MINING DISTRICT.

## INTRODUCTION.

### LOCATION.

The Myers Creek mining district is situated in eastern Washington, in the northeast corner of Okanogan county, and has for its northern border the international line. Definite boundaries for the area are not on record, but the accompanying map (Plate I) which represents about thirty-six square miles and centers about the town of Chesaw, includes most of that part of the district which has afforded reasonable encouragement to the prospector. Chesaw, the principal town, is a little village of about 500 population and is accessible by stage from Myncaster, a small settlement on the Oroville branch of the Great Northern railway, five miles distant.

### FIELD-WORK AND ACKNOWLEDGMENTS.

Field-work was begun August 25, 1909, and continued until September 3, 1909. Throughout the investigation Mr. Olaf Stromme rendered valuable assistance, especially in the areal mapping. For courtesies in the field the writer is indebted to the citizens and mining men of the district, especially to Honorable M. A. Smalley; to James P. Blaine, local assayer; and to Mr. Aaron Anderson.

### PREVIOUS WORK.

In 1904 the United States Geological Survey published a topographic map of the Osoyoos quadrangle, which includes the west part of Myers Creek district. In the same year the topographic map of Republic quadrangle was published, this including the eastern portion of the area. Both are on the scale of 1-125,000 and with 100-foot contour interval.

Save for occasional mention in technical journals and a brief statement in an early publication of the Washington Geological Survey (a), there is no literature on the district.

References to work in adjoining areas are made in the text.

#### GENERAL CONDITIONS.

A fairly uniform growth of medium-sized evergreen trees covers most of the western part of the district. Although it is a region of but moderate rainfall (about 18 inches), most of the streams live throughout the year, supplying an abundance of water for mining and other purposes.

Glacial drift is widely distributed, and is especially conspicuous west of Myers creek, where due to its persistence but few rock exposures appear. The general concealment of bed-rock makes detailed work in the district very difficult, and since so short a time was spent in field-work it is probably unnecessary to suggest that the accompanying map covers only incompletely those features which are of general interest to the mining community.

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(a) Wash. Geol. Survey, Annual Report, Vol. 1, Pt. II, pp. 26-28, 1902, Henry Landes.