

CHAPTER IV.

PAGE

Economic geology.....	56
Coal.....	56
Occurrence and distribution.....	56
Mining.....	59
Physical and chemical characters.....	59
Descriptions by locality.....	64
Clay.....	69
Occurrence and distribution.....	69
Physical tests of the clays.....	71
Summary of tests and general remarks on the clays, by J. Keele	82
Gravel and sand.....	83
Soil.....	84
Surface and underground water.....	85
INDEX.....	99
LIST OF PUBLICATIONS	

ILLUSTRATIONS.

Map 181 A, No. 1628. Wood Mountain-Willowbunch coal area, Saskatchewan.....	in pocket
Plate I. Typical exposure of rocks of the Fort Union formation, Big Muddy valley.....	Frontispiece
II. A. Plateau topography—Wood Mountain plateau.....	87
B. Butte, Fort Union formation, Big Muddy valley.....	87
III. Natural bridge in Fort Union clay.....	89
IV. Elongated sandstone concretion left on surface by the weathering away of the surrounding sand, Fort Union formation.....	91
V. Hoodoo of concretionary sandstone, Fort Union formation	93
VI. Mine at Waniska, Sask., illustrating the open-pit method of mining.....	95
VII. Mine at Gladmar, Sask., illustrating the tunnelling method of mining.....	97
Figure 1. Location of Wood Mountain-Willowbunch coal area.....	2