

REPORT
TO
ACCOMPANY MAP OF THE MOOSE MOUNTAIN AREA OF
THE DISTURBED BELT
SOUTHERN ALBERTA

INTRODUCTION.

This report and the map which accompanies it cover that area south of and adjoining the Bow river from the main Rocky Mountain escarpment on the west, to include part of range III, west of the 5th initial meridian on the east, and extending south to tp. 18, *i. e.*, to a short distance south of the south branch of Sheep river.

Coal had been found in several places within this district and natural gas had been found to the north, south, and east of this area in the same formations as those within it. So it was decided to study these coal and gas horizons in sufficient detail to place their outcrops upon the map and to be able to give geological sections at any desirable points. In this way the work of those looking for gas and coal is very much simplified and considerable definite information is afforded.

It has previously been supposed that the Kootanie formation, within the mountains, did not extend east of the main Rocky Mountain escarpment; but this season it has been found here, and as this is the formation which carries the high grade coals of the Crowsnest pass and of the Cascade trough, at Banff and Cammore, the finding of it in this area will prove of interest to many, especially as the measures, although much thinner than to the west, still carry several workable seams of good quality in nearly every place found, and extend the entire length of the map.

The coal measures in the Judith River and Edmonton are not nearly so easily followed as those of the Kootanie formation, which is somewhat narrow and is capped by a very prominent conglomerate, forming, usually, the summits of the points and ridges of the district in which it outcrops, and in the 300 to 400 feet below which the coal seams are always to be found. As this conglomerate can be traced, quite easily, from one end of the district to the other, prospecting for