

**REPORT ON EXAMINATION OF HAMILTON RANGE
AREA**

LYELL E.Z. EXPLORATIONS

57 - 144

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MICROFILMED

14th February,

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Report on Examination of Hamilton Range Area

Dates of Examination: 4th February to 9th February, 1957.

Party Leader: D. Sampy

Personnel Employed: P. Goscombe (Student), J. White (Rushman).

Man Days in the Field: 19

Location of Camp: On eastern flank of Hamilton Range.

General Topography of Area:

The Hamilton Range consists of a series of parallel N - S trending ridges with the highest on the western side and the others gently falling away to the east. The western slope is very steep and covered with scrub breast high. East of the main ridge there are several N - S gorges 2-300 ft. deep, whose sides are covered with dense scrub. The Prince of Wales, Hamilton and Wilnot Ranges are structurally continuous, the first two being separated by the Denison River, and the last two by the Gordon River.

Geological Investigations and Findings:

The Hamilton Range consists of isoclinally folded pre-Cambrian metaquartzites and garnet mica schists striking $340-350^{\circ}$, dipping $70-80^{\circ}$ to the east with drag folding plunging $0-10^{\circ}$ N.

The main ridge is an anticline of quartzite with a syncline to the west and another syncline and anticline to the east. This structure is shown diagrammatically in the attached sketch.

The Prince of Wales Range appears to be the northern continuation of the western anticline and the Denison river appears to flow in a valley of the softer

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schist with a low ridge of quartzite to the east. I think that this quartzite is the upper quartzite of the Hamiltons. East of the Prince of Wales Range this upper quartzite does not appear to crop out as an anticline as it does on the eastern side of the Hamilton Range.

The apparent nose of a fold at the south end of the Hamiltons, which appears on the photo-map is purely a topographic feature and does not reflect any change in strike of the rocks.

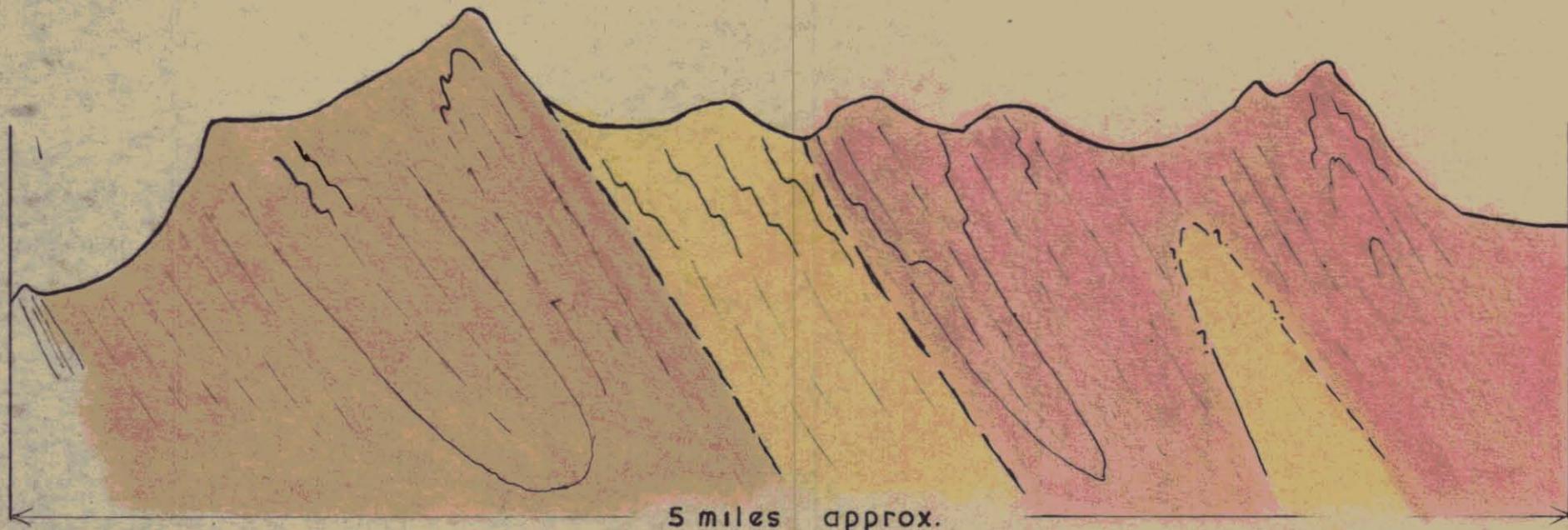
No signs of any mineralisation was seen.

Conclusions:

No sign of the Mt. Lyell type schists referred to by R. Marriott Jr. (1908) were seen.

Ref. R. Marriott Jr. 1908 Lands Dept. Report 1908-1909.

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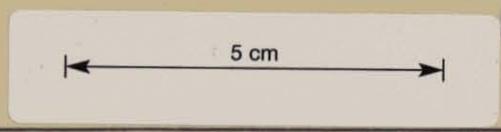


**DIAGRAMATIC SECTION THROUGH
HAMILTON RANGE**

LOOKING NORTH

FEBRUARY 1957 - D. SAMPEY

- Upper Quartzite
- Schist
- Lower Quartzite



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