



Geological Survey Branch

MINERAL POTENTIAL MAP 1992-8

MINERAL POTENTIAL OF THE MANSON LAKES MAP SHEET

NTS 93N/9

Scale 1:50 000

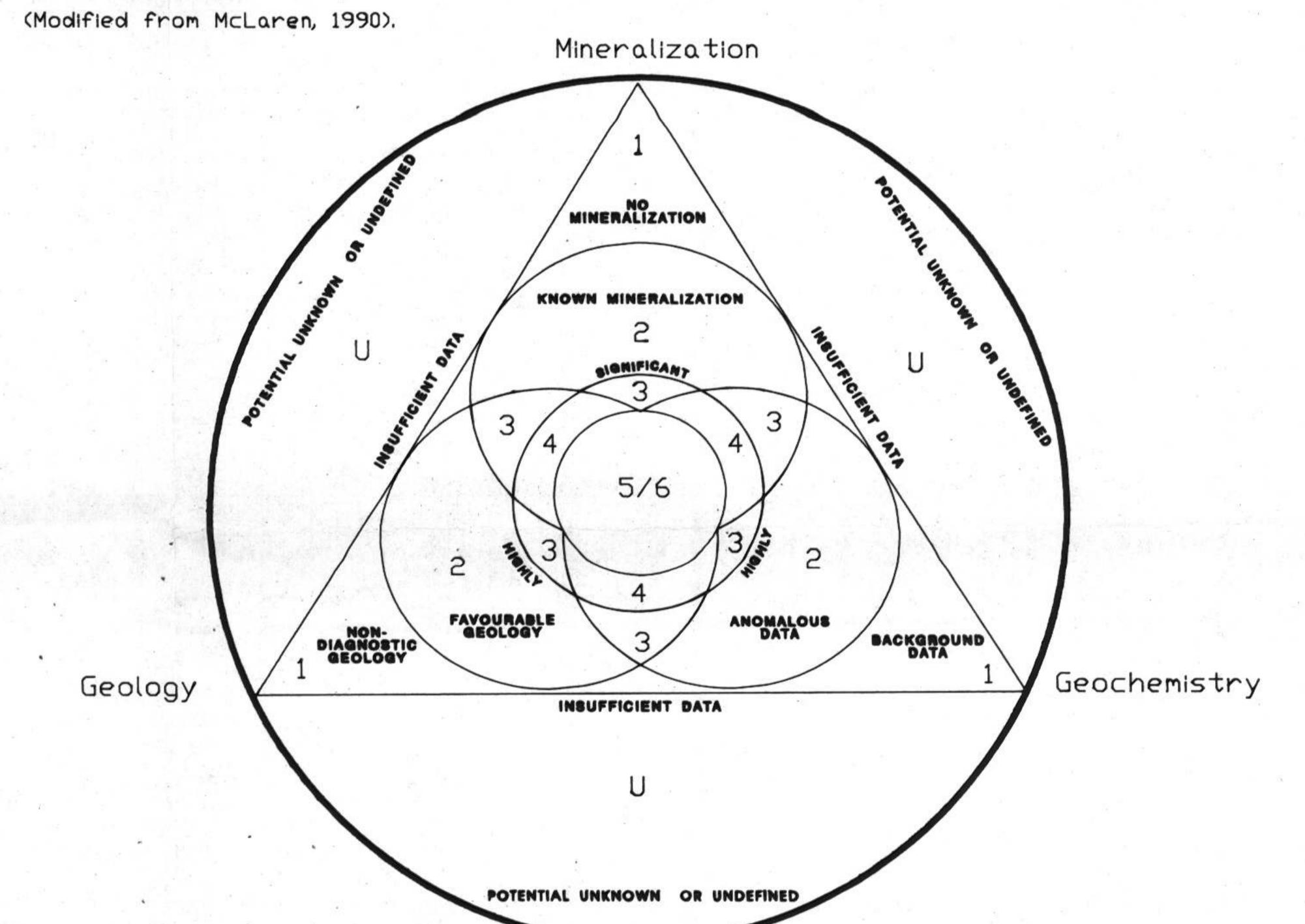
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2 3 4 5 kilometres

INTRODUCTION

The Manson Lakes map area lies along the boundary between the Intermontane and Omineca geomorphological belts. The area is underlain by rocks belonging to the Intermontane Superterrane and by rocks representing the displaced North American margin. The southwest portion of the map area is intruded by the multiphase Germansen batholith. The most notable structure in the area is the right-lateral Manson fault zone which follows the trend of the Manson Lakes. This structural zone is economically important as all placer operations and precious metal showings in the area are associated with it.

CLASSIFICATION OF MINERAL POTENTIAL



QUALITATIVE DESCRIPTIONS OF METALLIC MINERAL POTENTIAL CLASSIFICATIONS

Mineral Potential	Description
Extremely High	Known deposits (developed prospects) with significant identified resources in the ground. Very favourable supporting data from all applicable areas; very high degree of confidence in designation. Continued exploration highly probable; potential for mine developement is high.
Very High	Known prospects, developed prospects, past producing mines (with undefined resources in the ground) in highly favourable geological environment. Very good supporting data from all three criteria, high degree of confidence in designation. Future exploration expected.
High	Known or indicated resources in highly favourable geological environment. Very good supporting geological and geochemical data. Resources or deposits not necessarily identified; however, positive indications that deposit forming processes were active in the area. Moderate to high degree of confidence in designation. Future exploration expected.
Moderate	Favourable geologiacl environment for resource occurrence. Very favourable geological data from one or more criteria; but significant occurrences lacking. Moderate degree of confidence in designation. Future exploration likely, particularly if near an area of, higher designation. Good potential for upgrading classification.
Moderate	Moderately favourable environment for resource accumulation as indicated by one line of evidence (ie. favourable geology, mineralization or anomalous geochemistry with no other supporting data). Areas generally lack sufficient prospecting to identify resources. Moderate to low degree of confidence in designation. Future reconnaissance exploration to be expected. Good potential for upgrading classification.
Low	Current data indicates that the existence of resources is unlikely. Moderate to high degree of confidence in designation. Future exploration for deposit types considered is unlikely.
Unknown	Current data is either outdated or insufficiently detailed for a reasoned determination of mineral potential. High degree of confidence in designation. Future exploration could occur in parts of the area.
	High Very High Moderate Moderate

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REFERENCES

- Ferri, F. and Melville, D.M. (in prep.): Geology of the Germansen Landing Manson Creek Area, North-central British Columbia, British Columbia Ministry of Energy, Mines and Petroleum Resources.
- Ferri, F. and Melville, D.M. (1988): Manson Creek Mapping Project (93N/9), British Columbia Ministry of Energy, Mines and Petroleum Resources, Geological Fieldwork, 1987, Paper 1988-1, pages 169-180.
- Ferri, F., Melville, D.M., Malensek, G.A. and Swift, N.R. (1988): Geology of the Manson Lakes Map Sheet, 93N/9; British Columbia Ministry of Energy, Mines and Petroleum Resources, Open File 1988-12.
- McLaren, G. (1990): A Mineral Resource Assessment of the Chilko Lake Planning Area British Columbia Ministry of Energy, Mines and Petroleum Resources, Bulletin 81.