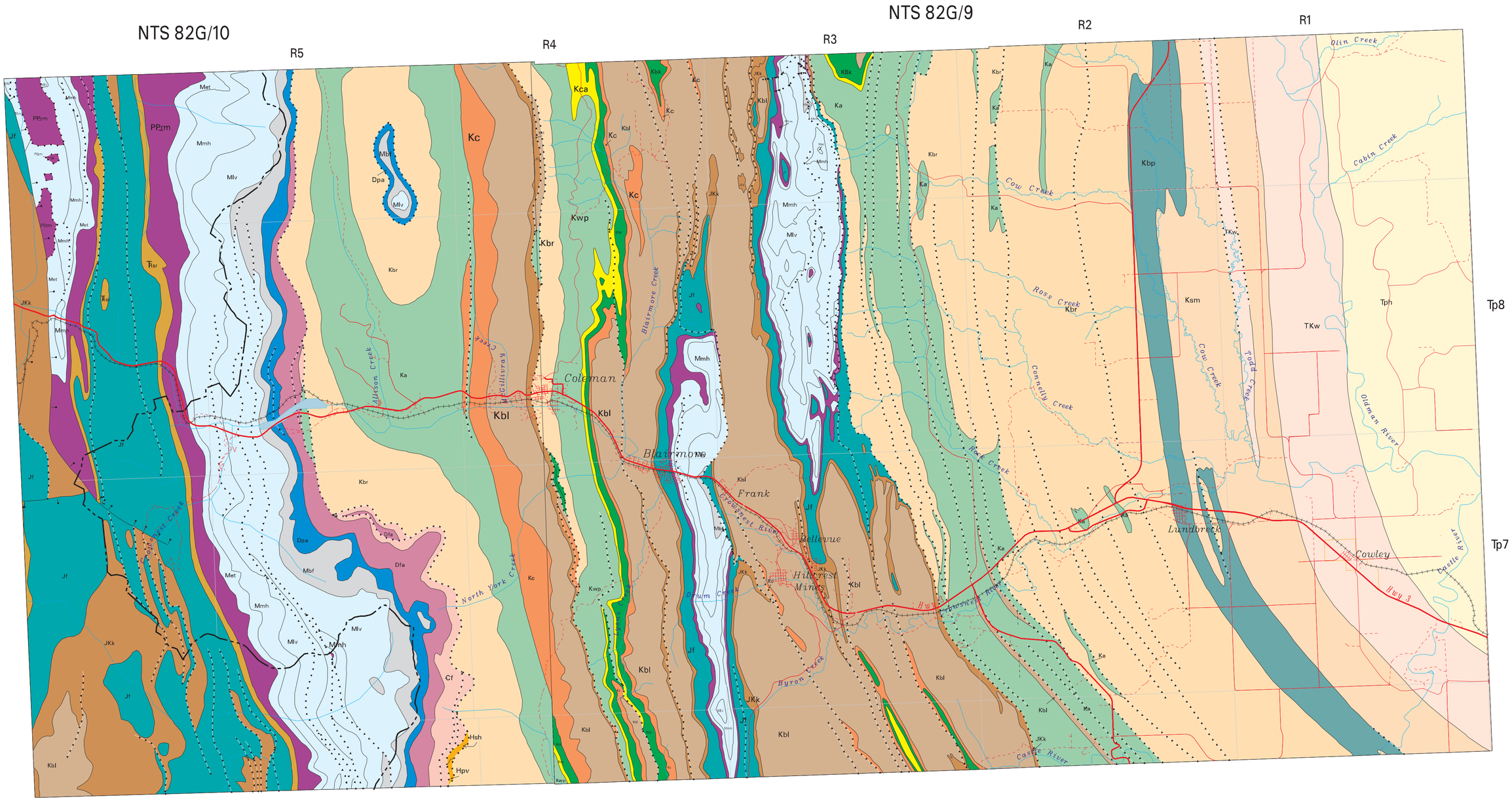
GEOLOGY OF THE CROWSNEST CORRIDOR

Scale 1:100 000



LEGEND

PALEOCENE

- Tph — Porcupine Hills Formation

UPPER CRETACEOUS AND PALEOCENE

- TKw — Willow Creek Formation

UPPER CRETACEOUS

- Ksm — St. Mary River Formation
- Kbp — Bearpaw Formation
- Kbr — Belly River Formation
- Kwp — Wapiabi Formation
- Kca — Cardium Formation
- Kbk — Blackstone Formation

Ka — Alberta Group

LOWER CRETACEOUS

- Kc — Crowsnest Formation
- Kbl — Blairmore Group

JURASSIC AND CRETACEOUS

- JKk — Kootenay Formation

JURASSIC

- Jf — Fernie Group

TRIASSIC

- Tsr — Spray River Group

PENNSYLVANIAN AND PERMIAN

- PPrm — Rocky Mountain Group

MISSISSIPPIAN

- Met — Etherington Formation
- Mmh — Mount Head Formation
- Mlv — Livingstone Formation
- Mbf — Banff and Exshaw Formations

DEVONIAN

- Dpa — Palliser Formation
- Dfa — Fairholme Group and Alexo Formation

CAMBRIAN

- Cf — Flathead Formation

HELIKIAN

- Hsh — Sheppard Formation
- Hpv — Purcell Lava

ROADS

- Paved
- Gravel
- Unimproved road/trail
- Provincial boundary

FAULTS

- Thrust fault (teeth indicate upthrust side)
- Normal fault (dot indicates downthrown side)

Geology of the Crowsnest Corridor

Alberta Geological Survey Map 235A

Published 1998

Compilation by W.N. Hamilton, M.C. Price and D.K. Chao

Canada-Alberta MDA Project M92-04-013

Sources of Geological Information
Geological Survey of Canada Map 35-1961, to accompany GSC Paper 61-24, by R. Price, 1961.
Geological Survey of Canada Map 1829A, by D.K. Norris.

Digital base maps supplied by:
Resource Data Division, Alberta Environmental Protection
Projection: Universal Transverse Mercator (NAD27)
Zone: 11

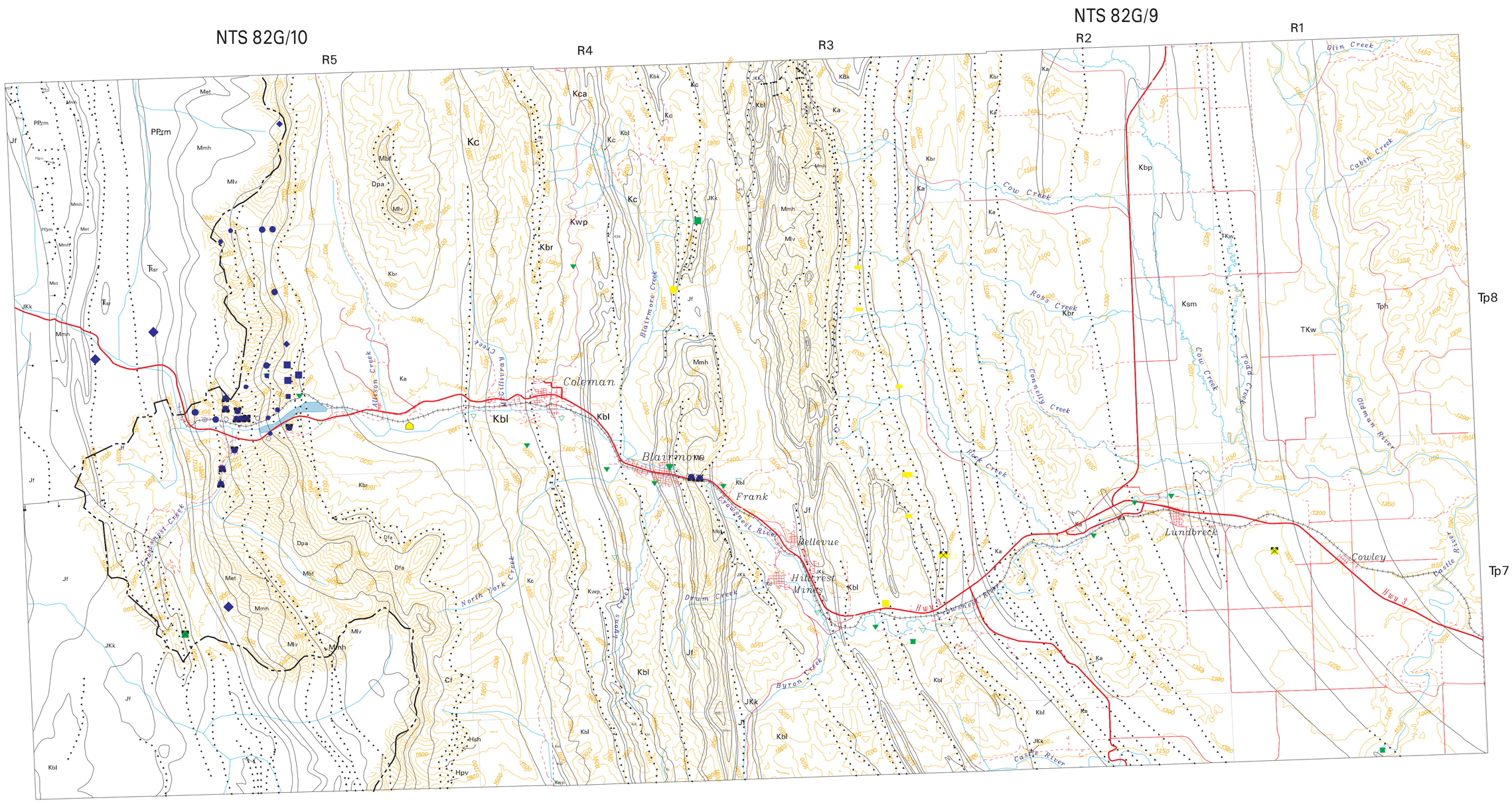
CANADA ALBERTA Partnership on Minerals
Finding Minerals and Technology for Tomorrow

EUB
Alberta Energy and Utilities Board

AGS
Alberta Geological Survey

MINERAL DEPOSITS OF THE CROWSNEST CORRIDOR

Scale 1:100 000



LEGEND

Mineral Deposits of the Crowsnest Corridor

Alberta Geological Survey Map 235B

Published 1998

Compilation by W.N. Hamilton, M.C. Price and D.K. Chao

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Geological Survey of Canada Map 1829A, by D.K. Norris.

Source of Mineral Deposits Information:
AGS Alberta Mineral Deposits and Occurrences (AMDO) file.

Digital base maps supplied by:
Resource Data Division, Alberta Environmental Protection.
Projection: Universal Transverse Mercator (NAD27)
Zone: 11
Contour intervals: 50 metres

MINERAL DEPOSIT

- Clay-stoneware/refractory
- Clay/Shale
- Dolomite
- Limestone
- Phosphate
- Gold
- Magnetite
- Sandstone
- Sulphur (Plant)

STATUS

- Producer
- Past Producer
- Prospect
- Showing
- Test

ROADS

- Paved
- Gravel
- Unimproved road/trail
- Provincial boundary

Producer/Past Producer

Mineral deposit from which ore is currently being mined or has been mined in the past for commercial gain. Typically, ore reserves and grade are known with some certainty. For past producers, production is not currently obtained because: (a) ore reserves have been exhausted, or (b) operations became subeconomic, due to factors such as declining grade/commodity prices, loss of markets, increasing waste to ore ratio during mining, increasing processing costs, etc.

Prospect

Mineral deposit that has sufficient size and ore mineral content to make commercial extraction a possibility. Typically, enough assessment work has been done to establish the presence of ore grade material and make at least a preliminary estimate of deposit size (i.e., reserves)

Showing

Mineral occurrence with sufficient concentration of valuable mineral(s) to indicate that further exploration may be warranted. Typically, insufficient work has been done to establish the size of the occurrence or the grade of the concentration of valuable mineral(s).

For nonmetallic mineral occurrences, access and recoverability are additional critical factors in distinguishing showings from prospects: e.g., a nonmetallic deposit that has unfavorable access or recoverability may be classed as a showing even though it has sufficient indication of size and grade to be a prospect.

Test

Mineral occurrence that is indicated from assays, tests, or other geological work to be submarginal in grade and lacking in economic mineral potential for the foreseeable future.

SYMBOL	FORMATION NAME
	PALEOCENE
Tph	Porcupine Hills Formation
	UPPER CRETACEOUS AND PALEOCENE
TKw	Willow Creek Formation
	UPPER CRETACEOUS
Ksm	St. Mary River Formation
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Kbk	Blackstone Formation
Ka	Alberta Group (Kwp - Kbk)
	LOWER CRETACEOUS
Kc	Crowsnest Formation
Kbl	Blairmore Group
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