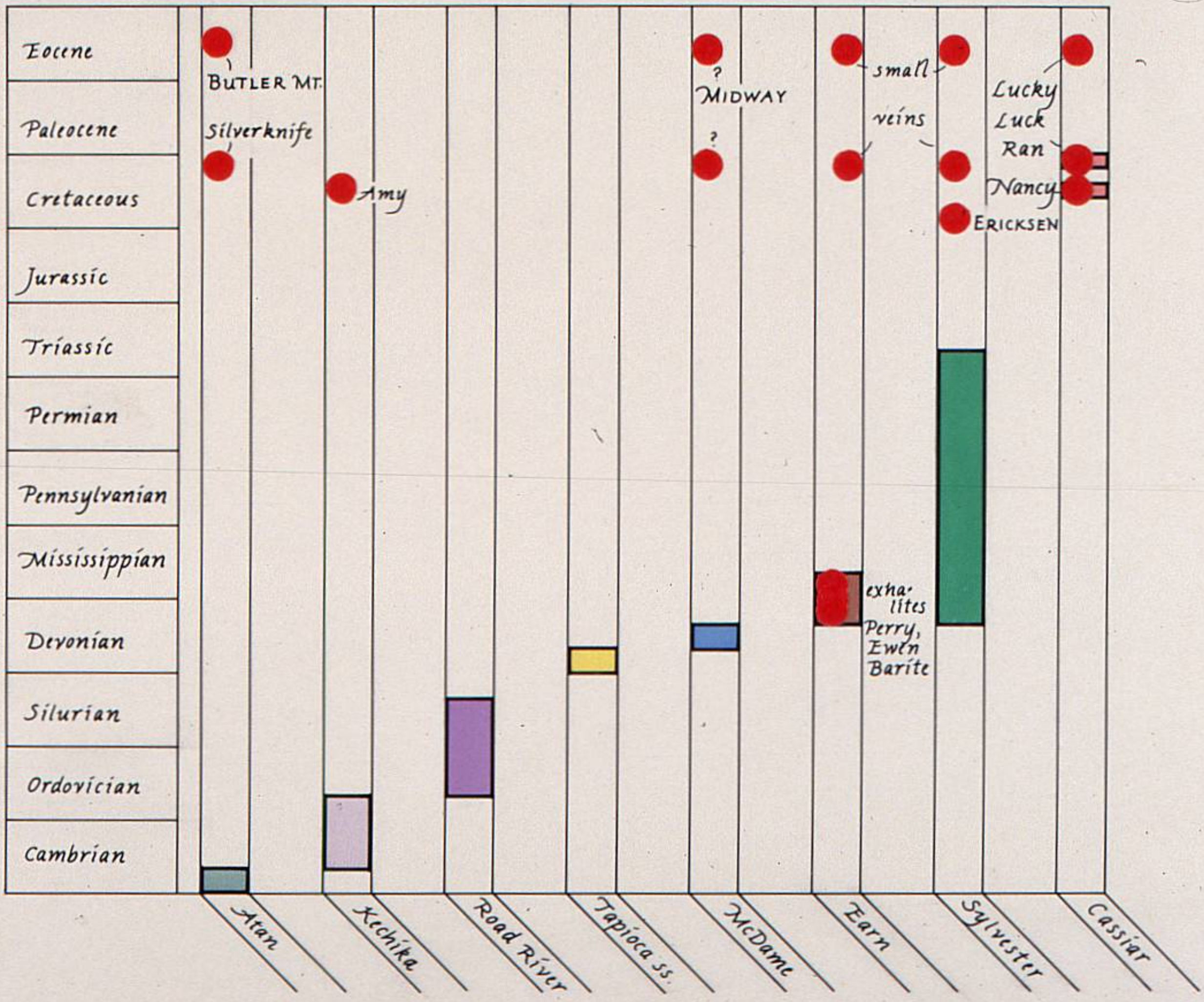
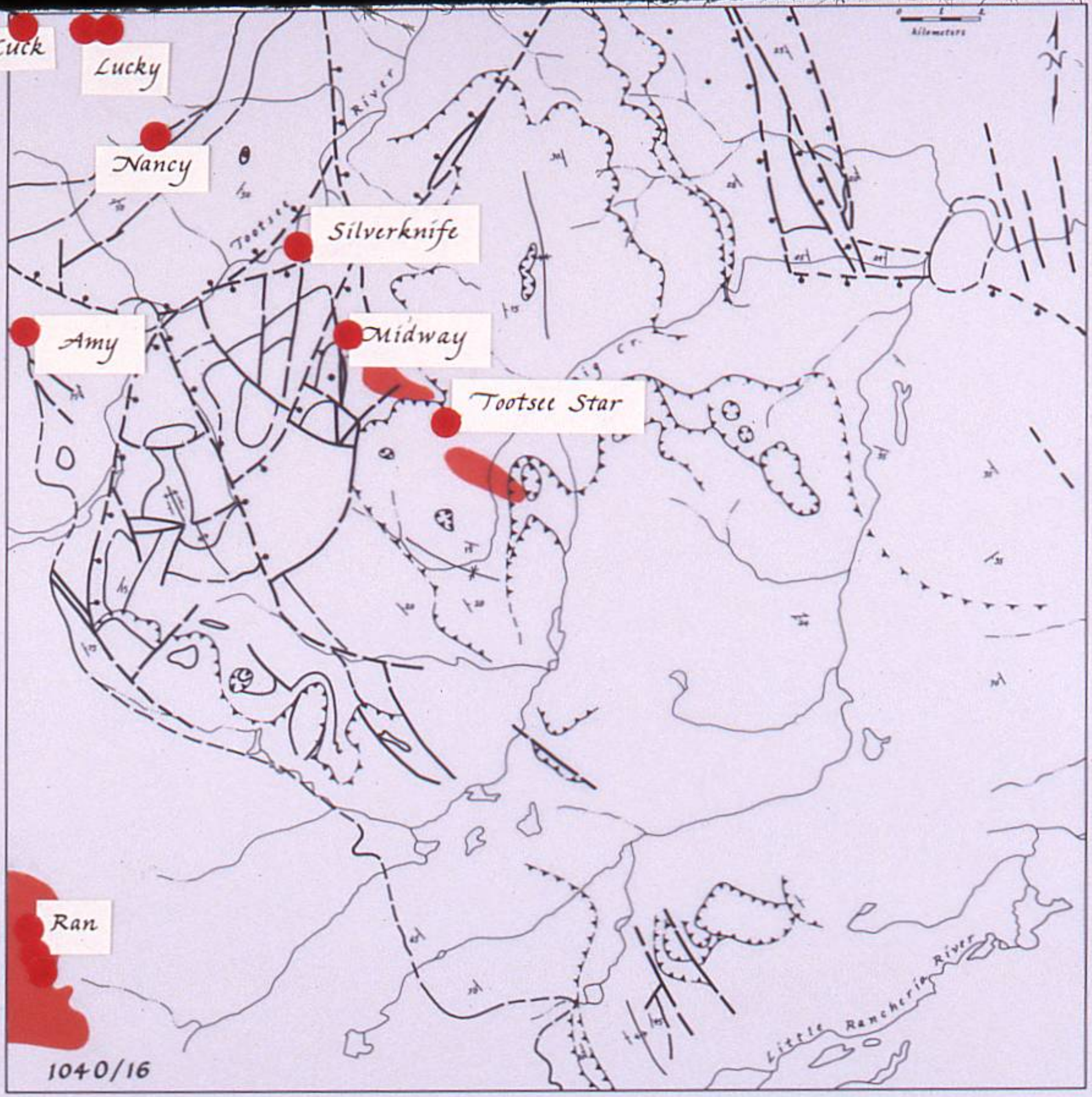
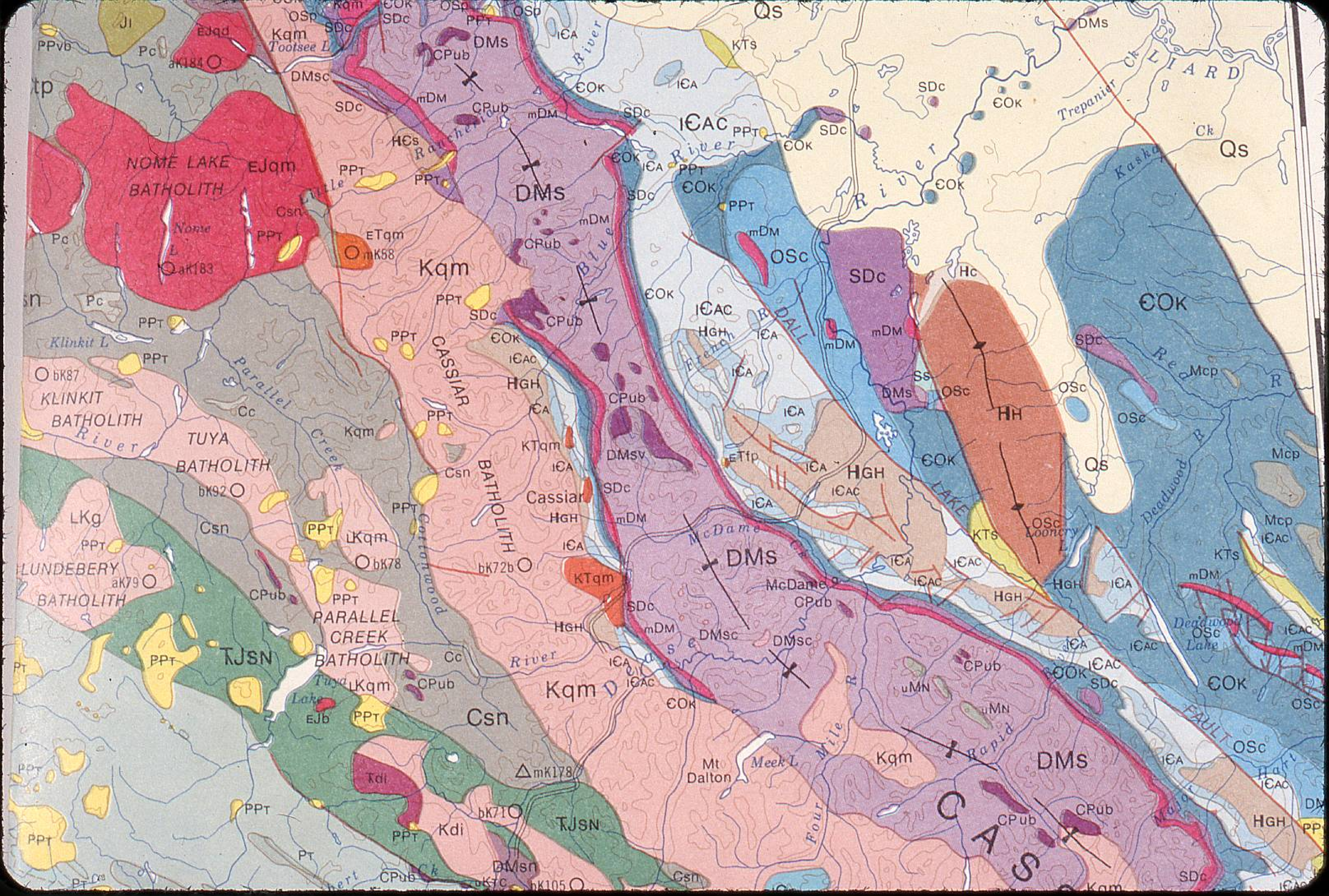
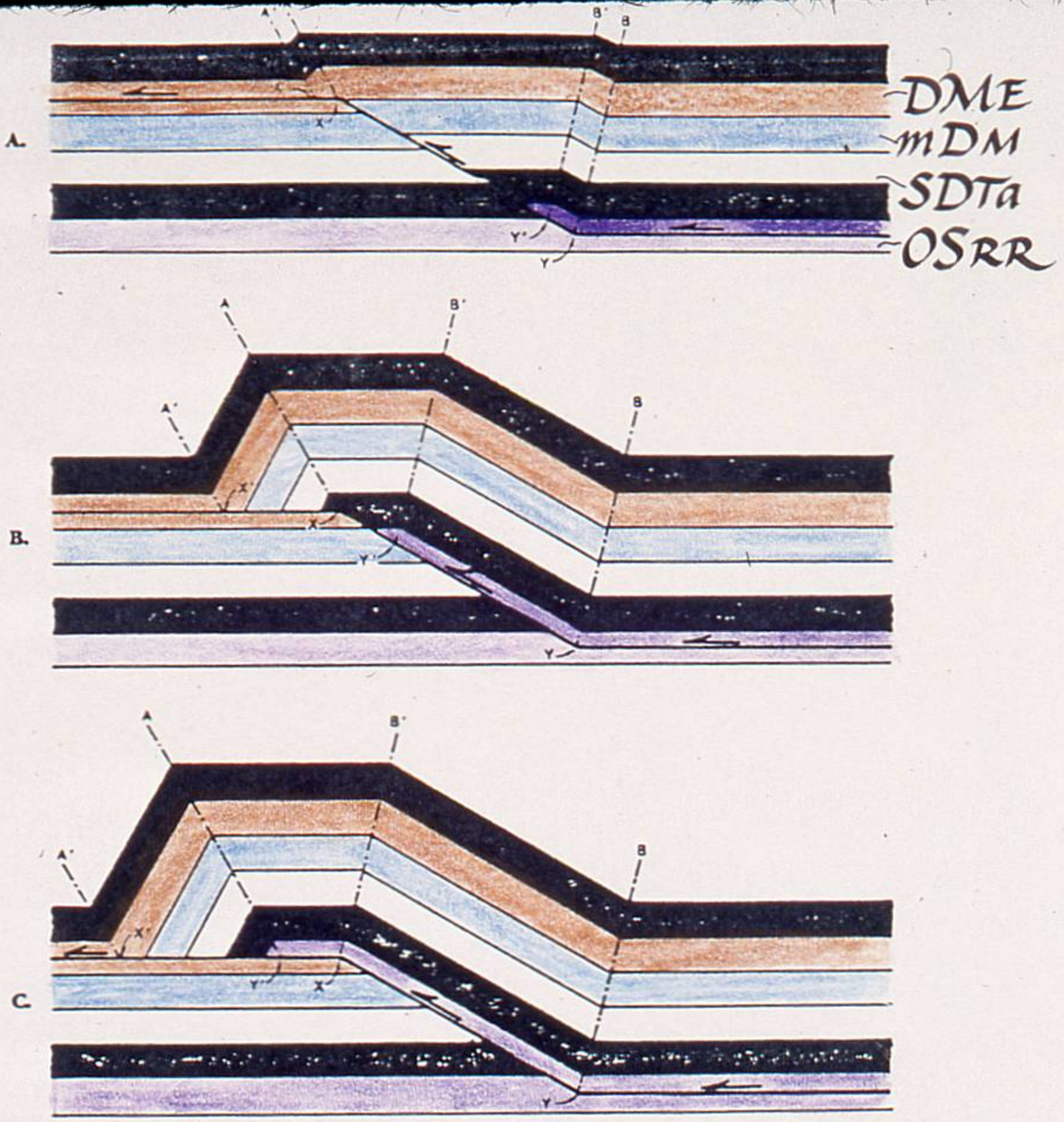
GEOLOGIC UNITS AND MINERALIZATION





Alteration and mineralization (K-E)

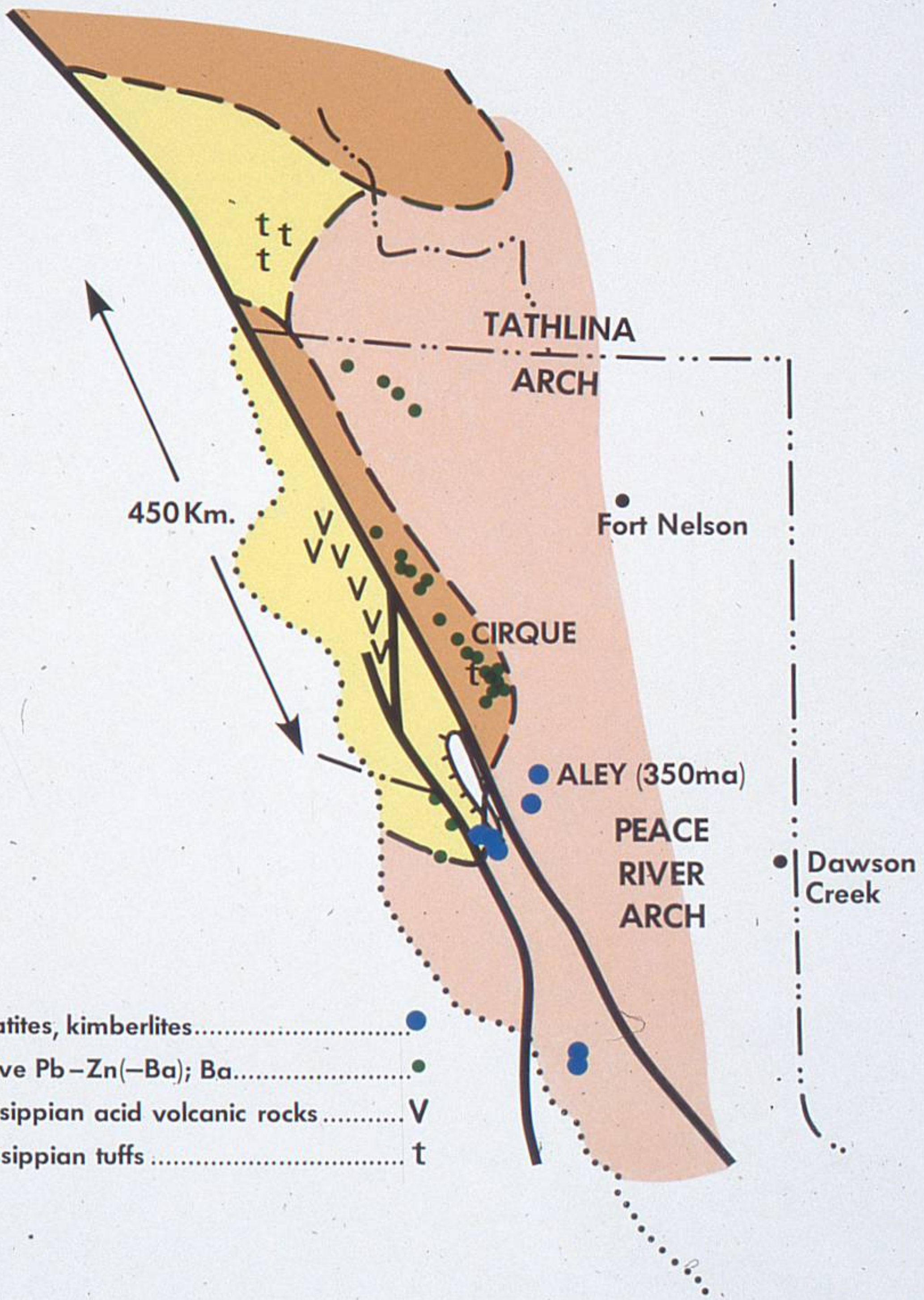

NOME LAKE BATHOLITH
EJqm
Nome L
Little
Tootsee L
Kqm
Rancheria
DMs
CPub
mDM
DMsc
SDc
PPT
Pc
aK184
aK183
eTqm
mK58
Klinkit L
bK87
KLINKIT BATHOLITH
River
TUYA BATHOLITH
Parallel Creek
Cc
bK92
LKg
Csn
LKqm
bK78
LUNDEBERY BATHOLITH
aK79
PARALLEL CREEK BATHOLITH
Tuya Lake
TJsn
EJb
Tdi
Kdi
bK71
mK178
DMsn
bK105
CASSIAR BATHOLITH
Cottonwood
Cassiar
KTqm
HGH
bK72b
Blue River
DMsv
ICA
ICAC
ЄOK
River
Dease River
McDame Ck
McDame
uMN
Mt Dalton
Meek L
Four Mile R
Rapid
CAS
French R
eTfp
DALL LAKE
Looncry
FAULT
OSc
mDM
SDc
Ss
DMs
HH
Hc
Qs
KTs
LIARD
Trepanier Ck
Kaska Ck
Red R
Mcp
Deadwood R
Deadwood Lake
OSc
Major
Hart



Kinematic development of fault-bend folds in response to a simple step in decollement (after Suppe and Namson, 1979).

Figure 3.4.27 (from Suppe, 1983)

THE UPPER DEVONIAN
LOWER MISSISSIPPIAN SCENE



Carbonatites, kimberlites.....●

Exhalative Pb–Zn(–Ba); Ba.....●

E. Mississippian acid volcanic rocks V

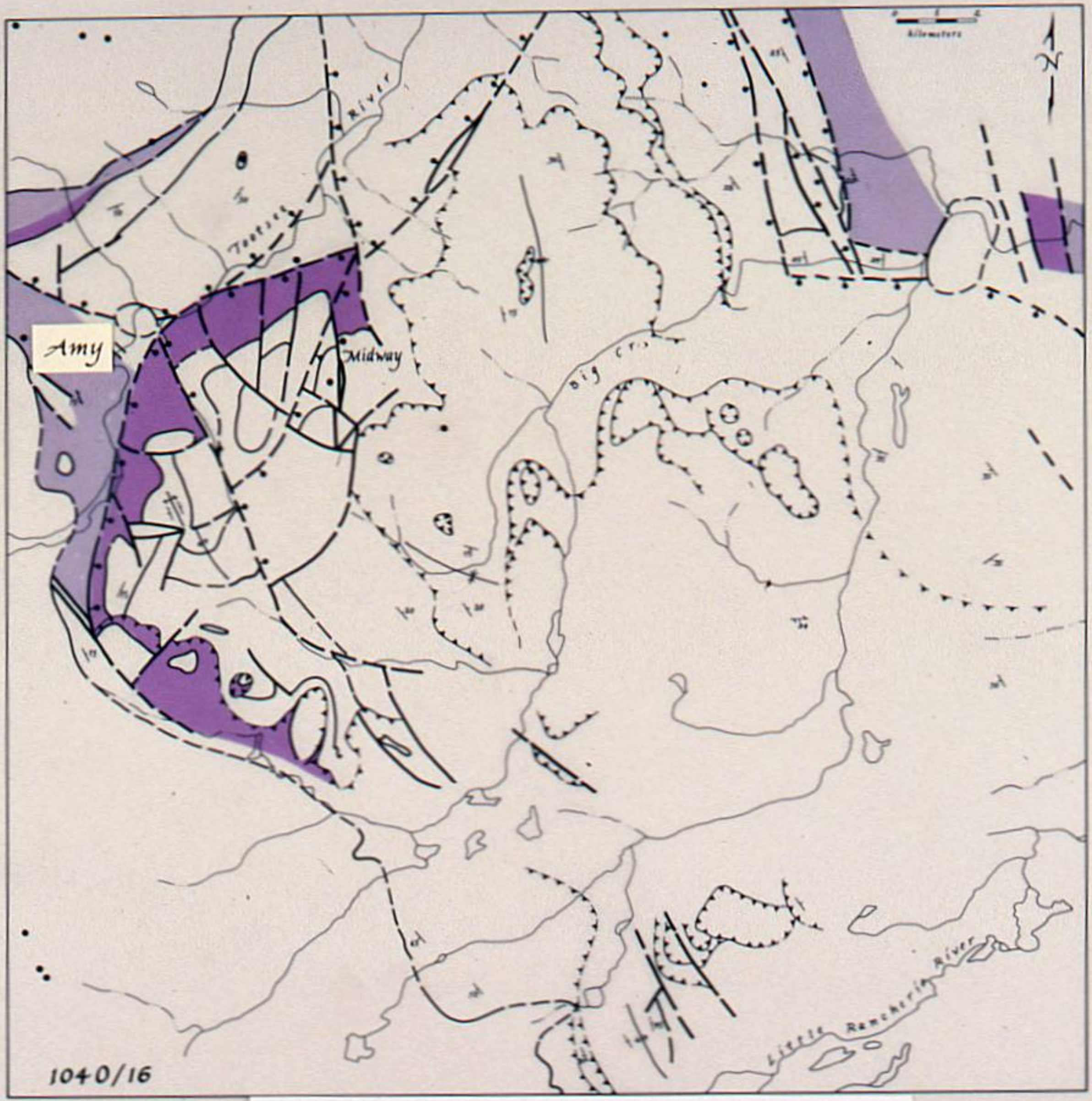
E. Mississippian tuffs ..... t

FACIES:
Upper Devonian – Lower Mississippian

Black Clastic Group
over earlier basinal facies

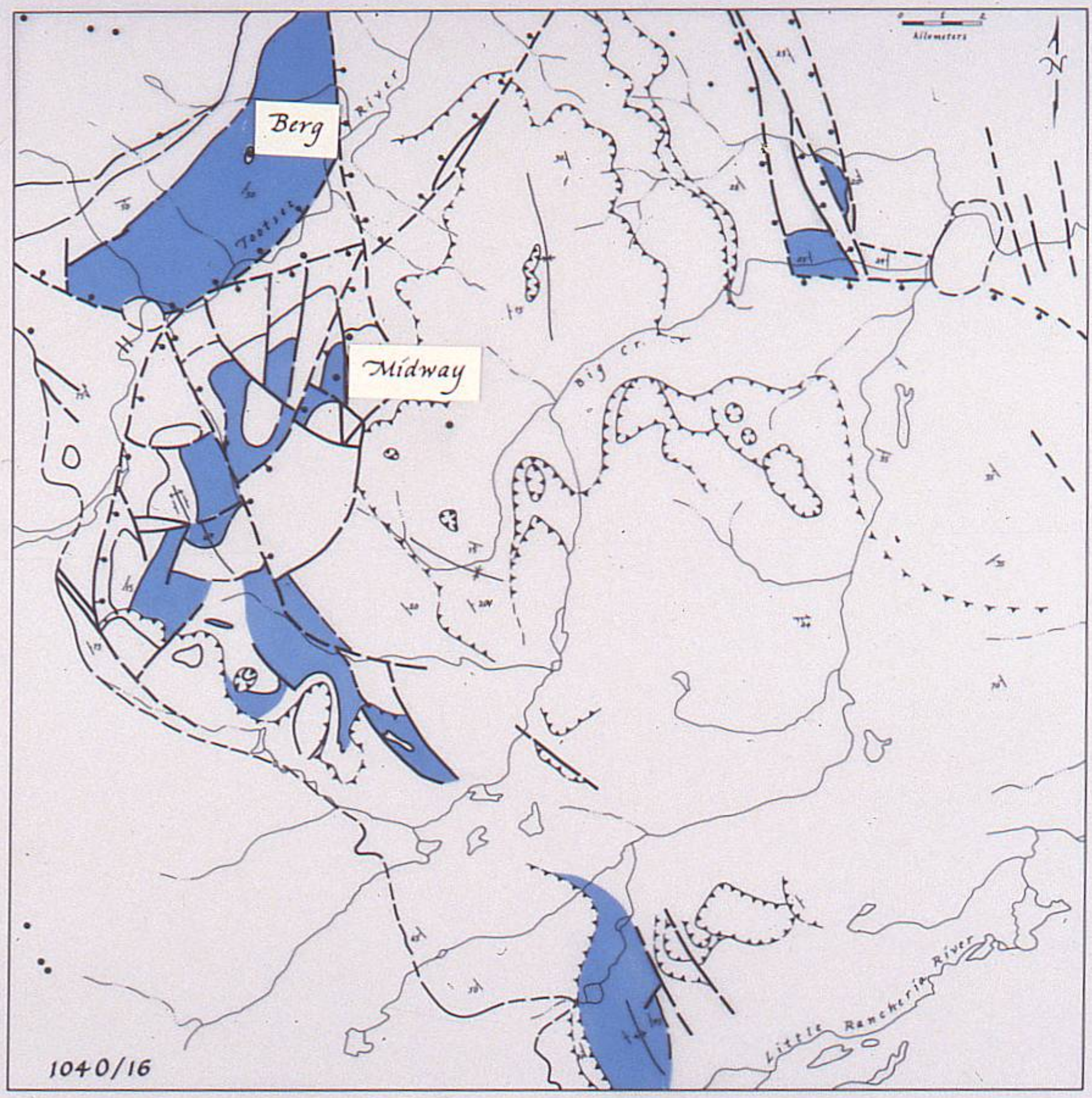
Black Clastic Group
over earlier platformal facies

Besa River Shale
over earlier platformal facies



Kechika Group (€-O)

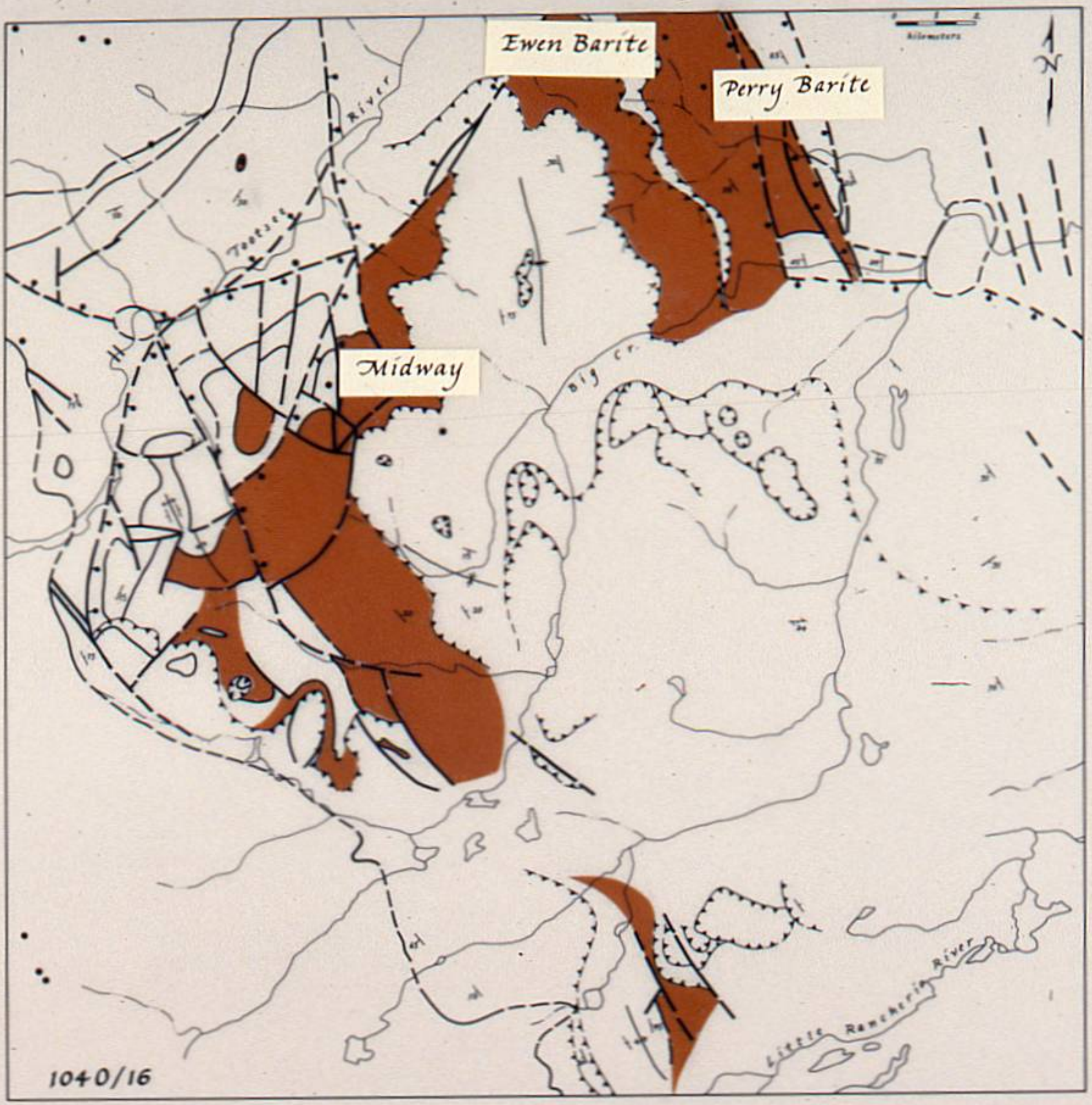
Road River Group (O-S)



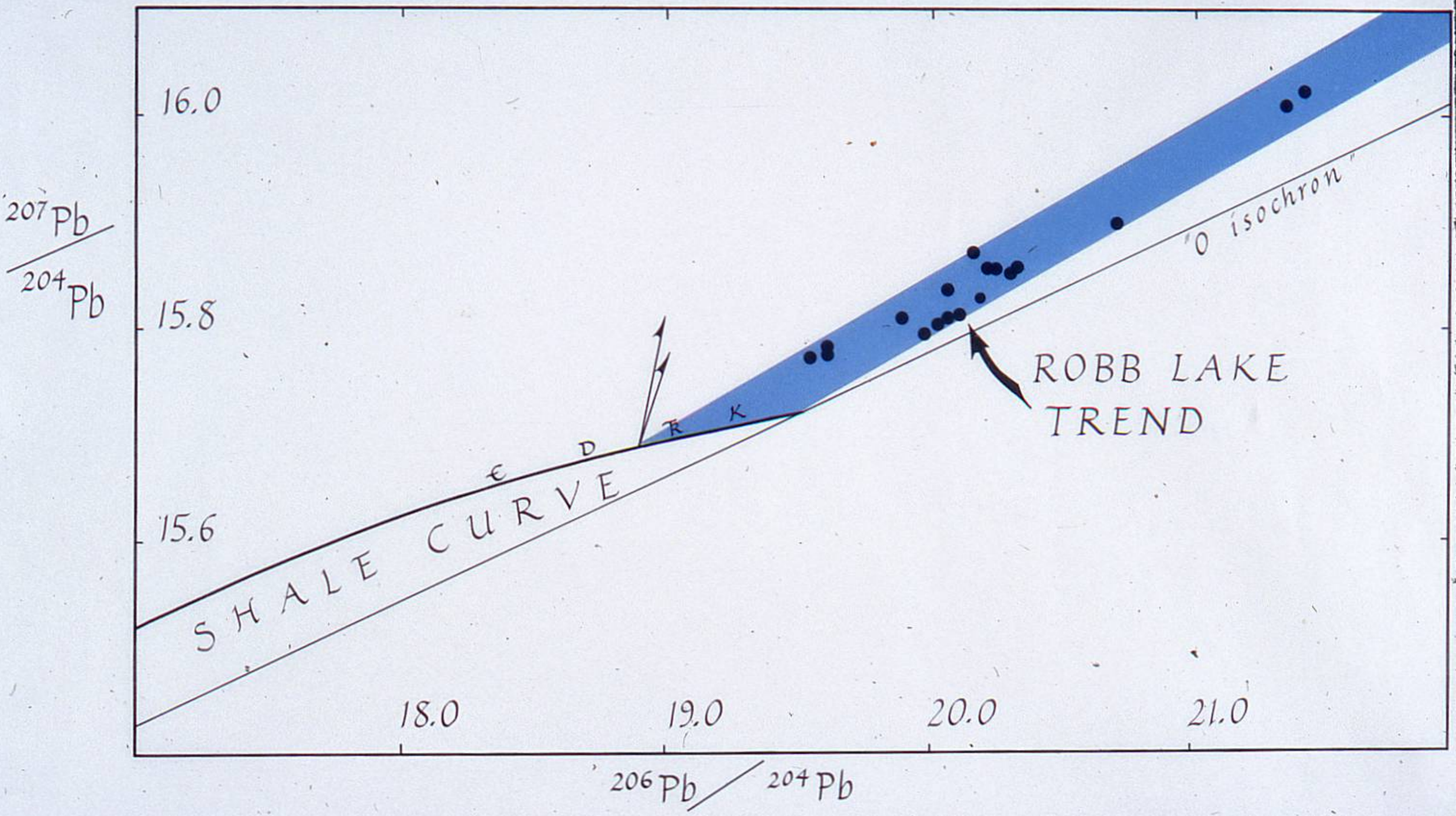
McDame Group (Middle Devonian)

FLAGSHIP DEPOSITS

Name	Type	Commodity	Tonnage	Grade
CIRQUE	Sedex	Pb-Zn	40 mt	2.2% Pb 7.8% Zn 47 g/t Ag
Robb Lake	MVT	Pb-Zn	5.5 mt	7.3% Pb-Zn
Aley	Carbonatite	Nb	significant	1–1.5% Nb_2O_5
Midway	Manto	Ag-Pb-Zn	1.2 mt	410 g/t Ag 7% Pb 9.6% Zn



Earn Group (D-M)


16.0
15.8
15.6
207Pb / 204Pb
18.0
19.0
20.0
21.0
206Pb / 204Pb
ROBB LAKE TREND
"0 isochron"
SHALE CURVE
R
K
D
C

CONTROLS OF MINERALIZATION

● Sedex ● Carbonatites	Located on rift system that shows Ordovician, Silurian, Devonian, Lower Mississippian activity Devono-Mississippian event most significant economically
● Mantos	Structure, intrusive, appropriate host Late Cretaceous-Eocene tectonics
● MVT	In Siluro-Devonian platform carbonates Pine Point located in reef facies Robb Lake is not Host-specific; minimal tectonic control

A

TROUGH

MUSKEG

ROBB LAKE

PEACE

RIVER

METALLIC MINERAL DEPOSITS
NORTHEASTERN B.C.