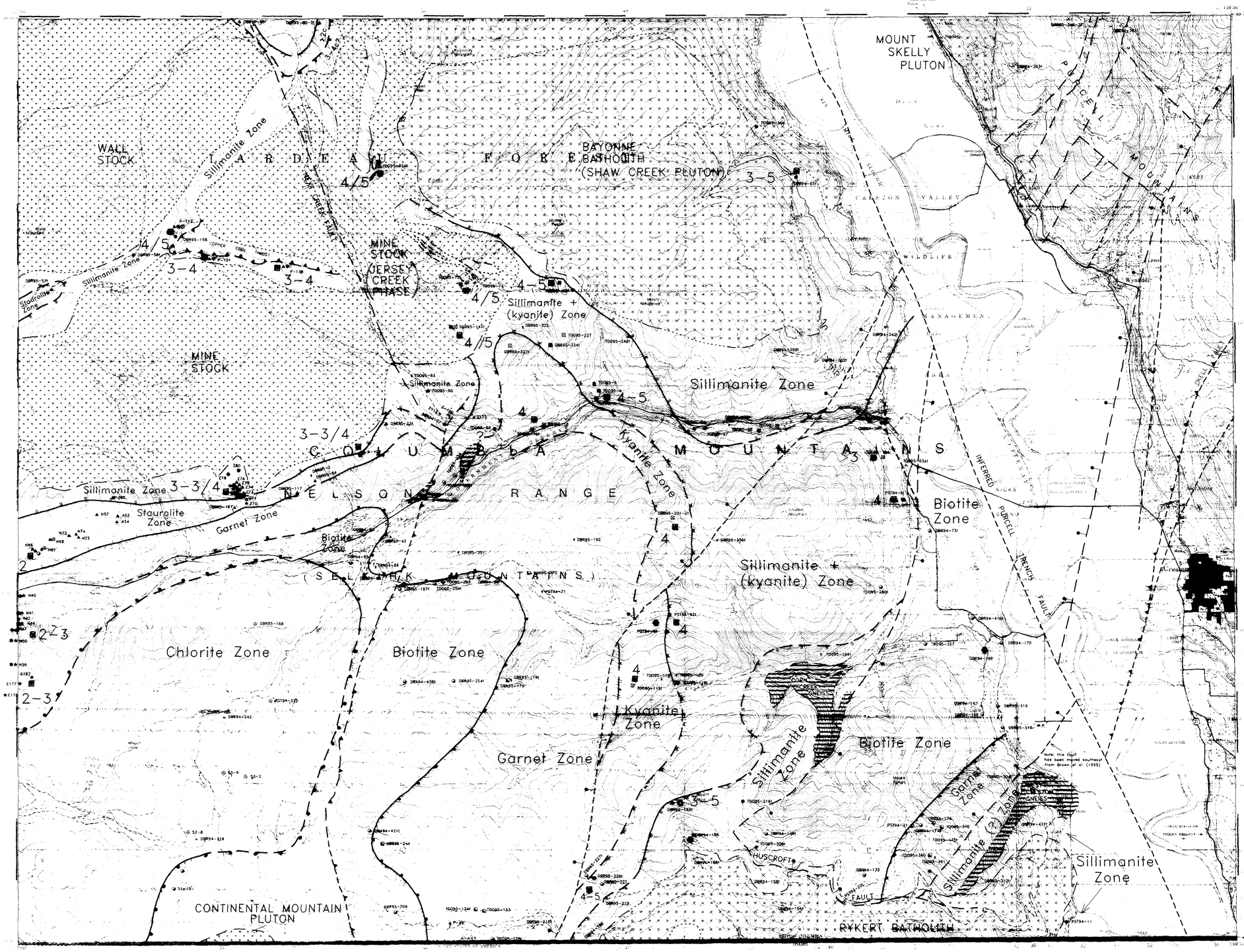

Topographic base map (Creston, 82F/2) published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources, Ottawa, Ontario, 1981. North American Datum 1927; Transverse Mercator Projection, UTM Zone 11. Magnetic declination in 1995 was approximately 18° east of true north.

COMMENTS OR CORRECTIONS:
Any improvements or comments concerning this map would be appreciated.
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BRITISH COLUMBIA
Ministry of Employment and Investment
Energy and Minerals Division
Geological Survey Branch

Geological Survey Branch

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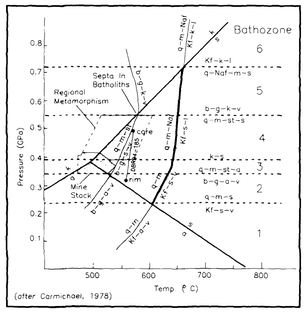
METAMORPHISM OF THE CRESTON MAP AREA, SOUTHEASTERN BRITISH COLUMBIA

NTS 82F/2

By P.T. Doughty, D.A. Brown, and D.A. Archibald

Includes data from Glover (1978) and LeClair (1988)
Digitizing and map layout by L.D. Fortner

Kilometres 0 — 4 Kilometres
SCALE 1 : 50 000



DIAGNOSTIC MINERAL ASSEMBLAGE LOCALITY
- c – contact-metamorphic assemblage
- 2 – bathozone 2
- >2c – not greater than bathozone 2c
- 2–3 – bathozones 2 and 3
- >3 – greater than bathozone 3
- 3–4 – bathozones 3 and 4
- 3–4c – bathozones 3 and 4c
- 3–3/4 – bathozone 3 to bathozones 3 and 4 transition
- 4 – bathozone 4
- 4–5 – bathozones 4 and 5
- 4/5 – bathozone 4 to bathozone 5 transition
- 3–5 – bathozones 3, 4, and 5

BATHOZONE determination locality with value ■4

SAMPLE USED FOR THERMOBAROMETRY ●

METAMORPHIC ISOGRADS
- kyanite ⇌ sillimanite
- kyanite–garnet–biotite
- sillimanite
- staurolite–biotite
- garnet
- biotite

SYMBOLS

Zone	Assemblage
Sillimanite ●	Si + bt + ms ± gt
Sillimanite+(kyanite) ■	(ky) + Si + bt + ms ± st ± mg-chl
kyanite ⊠	ky + bt + ms ± gt ± st ± mg-chl
Staurolite ▲	St + bt + ms ± gt
Garnet Gt_1 ◪	Gt + bt + ms + chl
Garnet Gt_2 ◨	Gt + bt + ms
Andalusite ★	And + ms + bt
Biotite Bt_1 ×	Bt + ms
Biotite Bt_2 ⊗	Chl + bt + ms
Chlorite ⊘	Chl + sericite
-	indeterminate

Note: mineral assemblages for sample numbers DBA94, DBR94, DBR95, PST94, TDO95 are listed in Table 1, where sample number is followed by a "1". Those abbreviated as A, E, N, P, S1, S2, S3 and Z are found in Glover (1978) and Archibald et al. (1983).

- Geological contact
- Fault
- Normal fault
- Thrust fault
- Quaternary cover

INTRUSIVE ROCKS

Cretaceous
- Bayonne batholith, Rykert batholith
- Corn Creek and West Creston gneisses

Jurassic
- Mine stock, Wall stock, Continental Mountain pluton

For accompanying geology base please see:
Brown, D.A., Doughty, P.T. and Stinson, P. (1995): Geology of the Creston Map Area, southeastern British Columbia (82F/2). B.C. Ministry of Energy, Mines and Petroleum Resources, Open File 1995-15, 1:50 000 scale map.

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