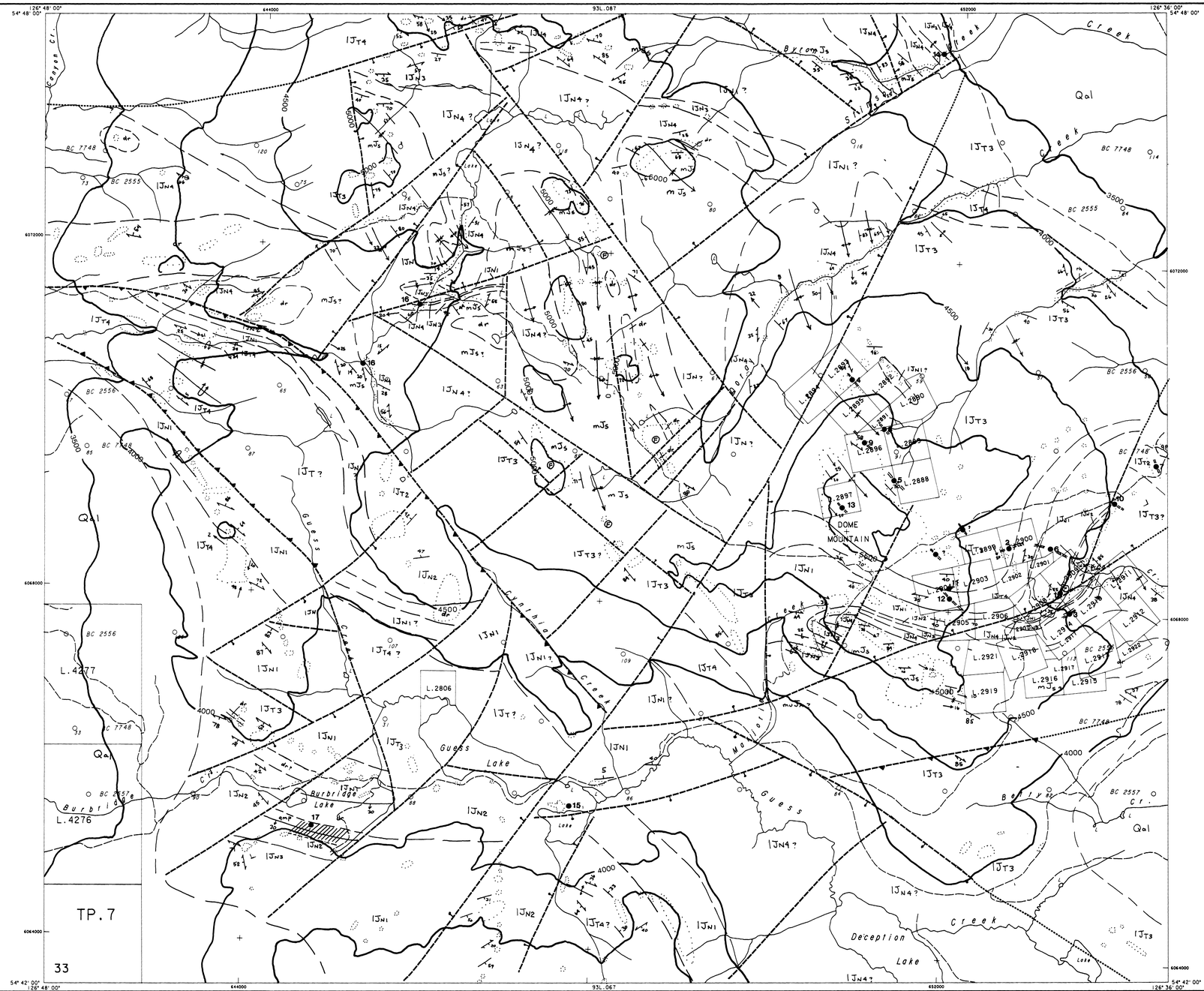


Province of British Columbia — Ministry of Energy, Mines and Petroleum Resources

Energy, Mines and Resources Canada — Énergie, Mines et Ressources Canada

OPEN FILE MAP 1987/1

GEOLOGY OF THE DOME MOUNTAIN AREA

NTS 93L10,15

Geology by D. MacIntyre, D. Brown, P. Desjardins, and P. Mallett

Compilation and drafting by D. MacIntyre and P. Desjardins

LEGEND

PLEISTOCENE AND RECENT

Qal — Alluvium, till, gravel

MIDDLE TO UPPER JURASSIC

BOWSER LAKE GROUP

CALLOVIAN AND LOWER OXFORDIAN

muJA — Ashman Formation: well-bedded, marine black shale, siltstone, quartzose wacke turbidites; transgressive marine sequence

LOWER TO MIDDLE JURASSIC

HAZELTON GROUP

BAJOCIAN AND BATHONIAN

mJS — Smithers Formation: feldspathic volcanic sandstone, siltstone, greywacke; minor shale, limestone, chert and conglomerate; fossiliferous; regressive marine sequence.

PLEINSBACHIAN TO BAJOCIAN

lJN — Nilkitkwa Formation: 1 - red and maroon epiclastic rocks interfingered with green to maroon amygdaloidal flows and welded lapilli tuff; 2 - rhyolite tuff and flows, cherty tuff, partly welded felsic lapilli tuff; 3 - conglomerate with angular felsic clasts, tuffaceous siltstone, argillite, argillaceous limestone; 4 - well-bedded rusty argillite, limy siltstone, chert and argillaceous limestone; transgressive marine sequence.

SINEMURIAN

lJT — Telkwa Formation: 1 - feldspathic boulder to pebble conglomerate with leucogranitic clasts; 2 - porphyritic andesite; 3 - volcanic breccia, lapilli tuff and tuff containing porphyritic andesite clasts in feldspathic matrix; 4 - phyllitic maroon tuff or epiclastic

INTRUSIVE ROCKS

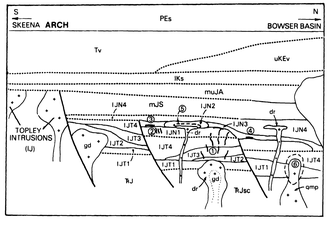
dr	Diorite to quartz diorite	gd	Granodiorite
qmp	Quartz monzonite porphyry	fp	Feldspar porphyry
qp	Quartz eye rhyolite porphyry	rh	Rhyolite

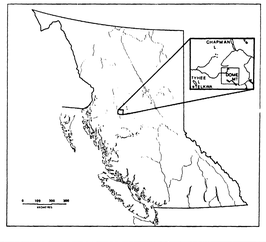
SYMBOLS

- Rock outcrop, area of outcrop, probable outcrop
- Geological boundary (defined, approximate, assumed, gradational, dip indicated)
- Bedding, tops known (horizontal, inclined, vertical, overturned)
- Schistosity of unknown age
- Axes of minor folds (horizontal, inclined, vertical)
- Fault (defined, approximate, assumed)
- Fault (solid circle indicates downthrown side, arrows indicate relative movement)
- Thrust fault (teeth in direction of dip; defined, approximate, assumed) (teeth indicate upthrust side)
- Dyke, vein or stockwork (defined, approximate, assumed; dip indicated)
- Anticline (defined, approximate, assumed)
- Syncline (defined, approximate, assumed)
- Anticline and syncline (overturned)
- Fossil locality
- Mineral prospect; mineral occurrence (copper) — •Cu
- Gossan, limonite capping, alteration zone

MINERAL OCCURRENCES

	Occurrence Name	Type	Commodity
1	Forks	Qz Vein	Au,Ag,Zn,Pb,Cu,(As,Sb)
2	Cabin	Qz Vein	Au,Ag,Zn,Pb,Cu,(As,Sb)
3	9800	Qz Vein	Au,Ag,Zn,Pb,Cu,(As,Sb)
4	Ptarmigan	Qz Vein	Au,Ag,As,Zn,Pb,Cu
5	Hawk	Qz Vein	Au,Ag,As,Zn,Pb,Cu
6	Boulder	Qz Vein	Au,Ag,Zn,Pb,Cu
7	Free Gold	Qz Vein	Au,Ag,Zn,Pb,Cu
8	Eagle	Qz Vein (1)	Au,Ag,Zn,Pb,Cu
9	Gem	Qz Vein	Au,Ag,Zn,Cu,Pb
10	Chance	Qz Vein	Au,Ag,Cu,Zn,Pb
11	Hoopes	Qz Vein	Au,Ag,Cu,Pb,Zn
12	Jane	Qz Vein	Au,Ag,Cu,(Zn,Pb,Ba)
13	Raven	Qz Vein	Au,Ag,Cu
14	Tina	Cu Vein (2)	Cu,Ag
15	Camp Lake	Cu Vein	Cu,Ag
16	Ascot	Massive (3)	Zn,Pb,Ba
17	Burbridge Lake	Porph (3)-(4)	Cu,Mo





This Project is a contribution to the Canada/British Columbia Mineral Development Agreement, 1985-1990

Province of British Columbia — Ministry of Environment

MAPPING CONTROL: B.C.GOV'T.
DATUM OF ELEVATIONS: GEODETIC
AIR PHOTOGRAPHY: B.C.GOV'T.
DATE OF PHOTOGRAPHY: 1958,75,80
U.T.M. GRID: ZONE 9 (1975)
SHORELINE: HIGH WATER MARK

BASE COMPLETED: NOVEMBER 1983 DIST. LOT AND TP. SEC.
BASE SOURCE: 20 CHAIN INTERIM SUBDIVISION LOT
REVISION DATE:

LAND DISTRICTS: COAST RANGE 5
LAND TITLE DIST.: PRINCE RUPERT

AIR PHOTO CENTRE

BUILDING
CONTOURS AND ELEVATION
APPROX. CONTOUR
SWAMP
DEPRESSION
TREED SWAMP

ROADS PAVED — ROUGH
GRAVEL — TRAIL
RAILWAY — ABAND.
POWER LINE
FENCE
FLUME

SCALE : 1:20000
200 0 200 400 600 800
METRES
CONTOUR INTERVAL 500 FEET

PLANIMETRIC DIGITAL
CADASTRAL DIGITAL

SEE INDEX 93L

PROJECT No. 83-007 PC

93L.077