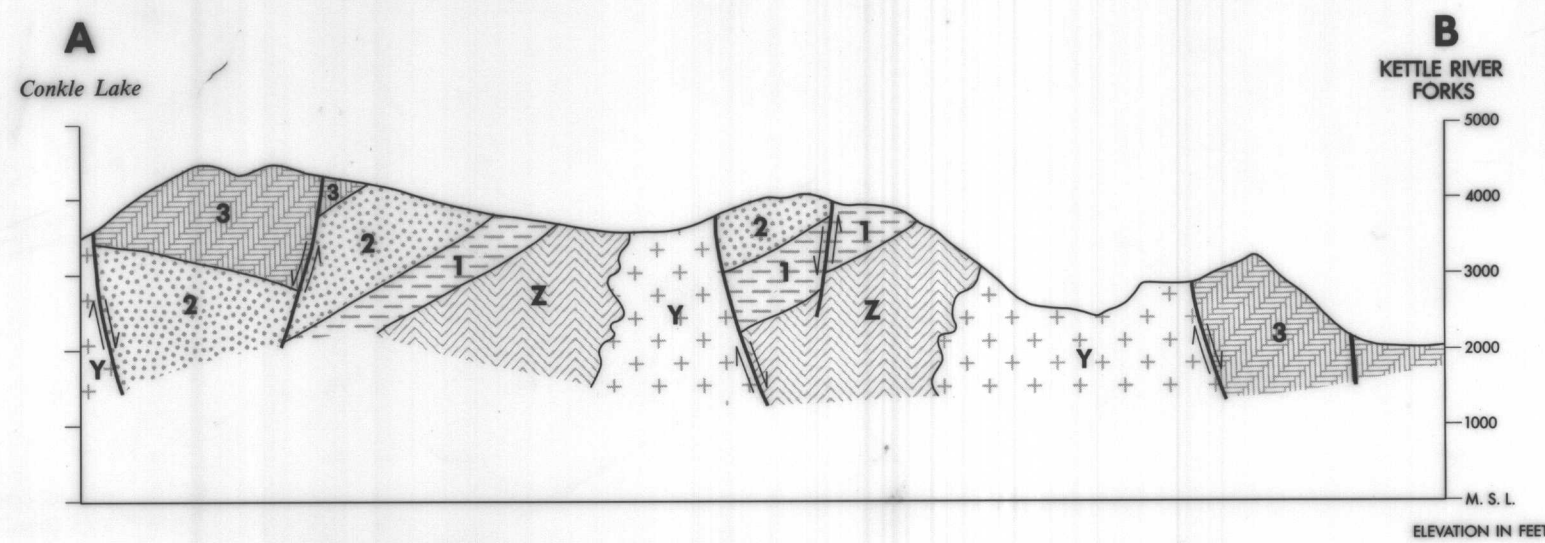
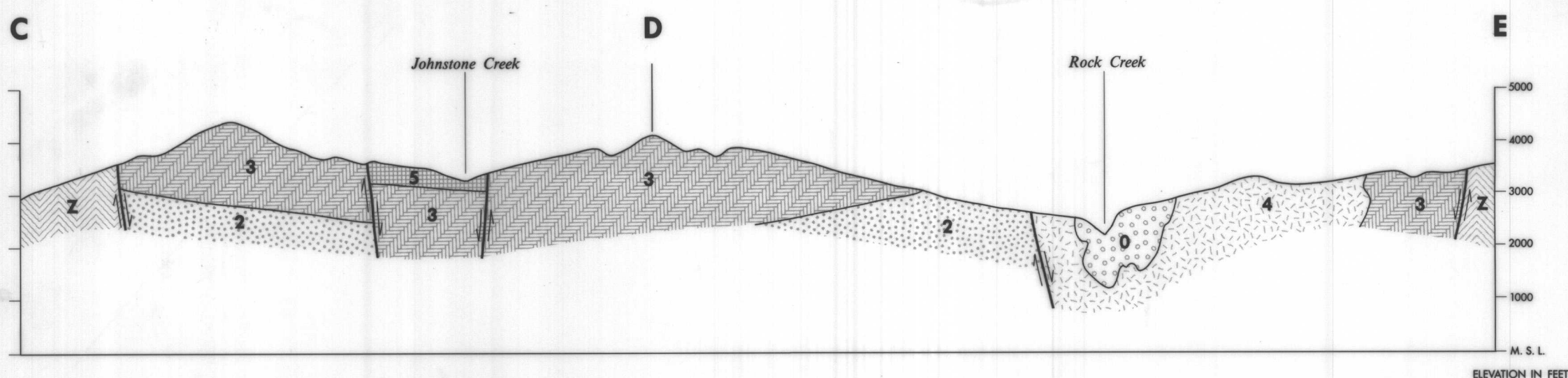


1 of 1  
PMH

Province of British Columbia  
 Ministry of Energy, Mines and Petroleum Resources  
**PRELIMINARY MAP 41**  
**GEOLOGY OF THE ROCK CREEK**  
**TERTIARY OUTLIER**  
 BY B.N. CHURCH  
 NOVEMBER 1990



SECTIONAL VIEW CONKLE LAKE TO FORK OF KETTLE RIVER, LOOKING NORTH



SECTIONAL VIEW OF THE VALLEYS OF JOHNSTONE CREEK AND ROCK CREEK, LOOKING NORTH AND EAST

**LEGEND**

**CENOZOIC**

**MARRON FORMATION**

- 5 KITLEY LAKE MEMBER: TRACHYANDESITE LAVA FLOWS AND EQUIVALENT DYKES CHARACTERIZED BY SCATTERED GLOMEROPHENOCRYSTS OF SUBHEDRAL PLAGIOCLASE
- 4 ROCK CREEK CHONOLITH (49.9 Ma): A VARIETY OF 'CORYELL' SYENITE WITH ANORTHOCLASE FELDSPAR, BIOTITE, AUGITE, AND ACCESSORY NEPHELINE
- 3 YELLOW LAKE MEMBER: PYROXENE-RICH MAFIC PHONOLITE LAVA, EQUIVALENT DYKES, SOME TUFF AND BRECCIA, AND INCLUDING LOCAL EXPOSURES OF 'RHOMB PORPHYRY' ANORTHOCLASE-RICH AND ANALCITE-BEARING LAVAS

**KETTLE RIVER FORMATION**

- 2 STORM HILL MEMBER\*: BROWN SANDSTONE PASSING Laterally TO GREY SHALES WITH CARBONACEOUS SEAMS, PARTLY INTERCALATED WITH BASAL UNITS OF THE MARRON FORMATION

**CENOZOIC (CONTINUED)**

**KETTLE RIVER FORMATION (CONTINUED)**

- 1 ED JAMES LAKE MEMBER\*: FANGLOMERATE BRECCIA AND ARKOSE WITH GRANITOID AND RHYOLITIC CLASTS
- 0 SPRINGBROOK FORMATION
- 0 POLYMICTIC CONGLOMERATE CONSISTING OF PRE-TERTIARY CLASTS OF GREENSTONE, CHERT, GRANITOID, SCHIST, LIMESTONE, ETC.

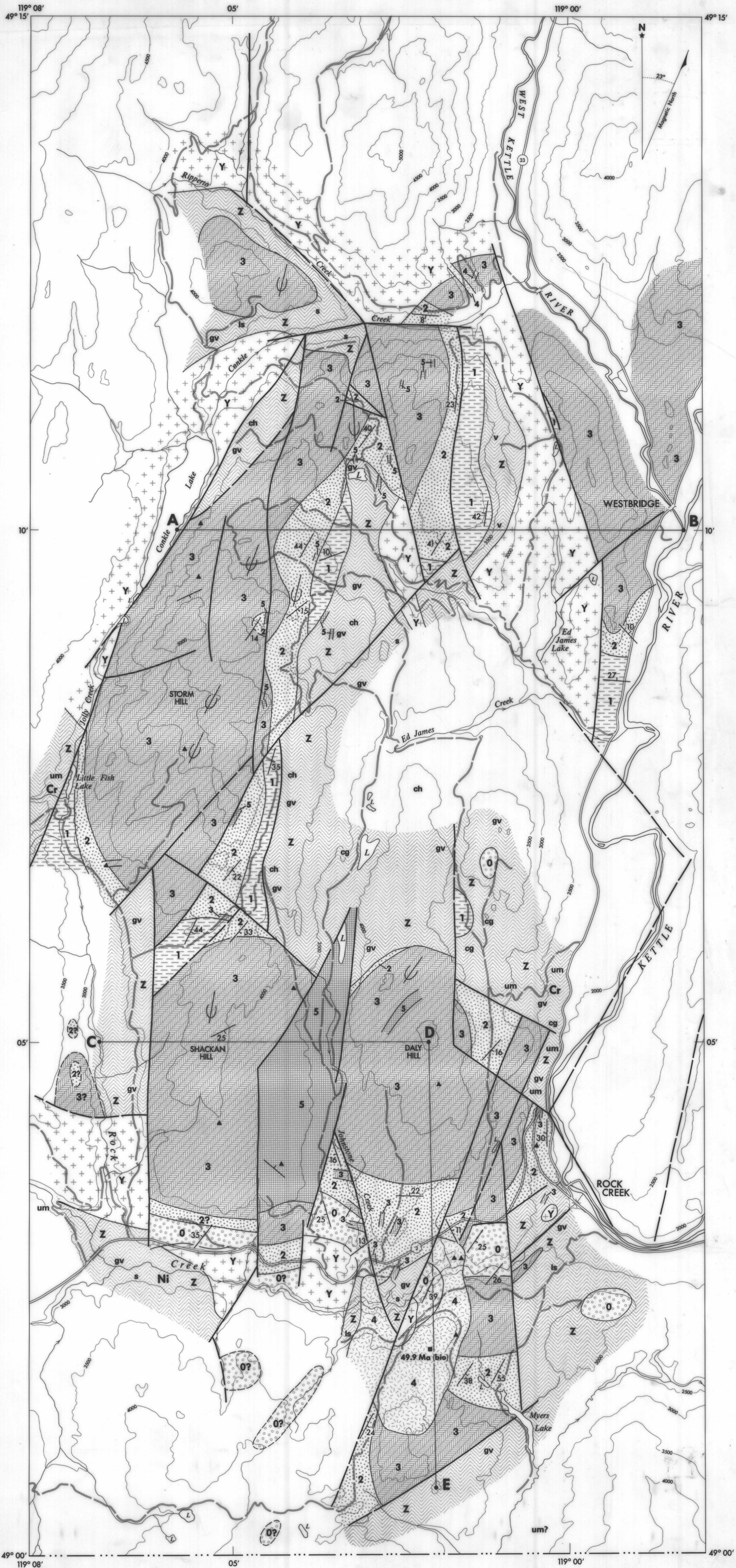
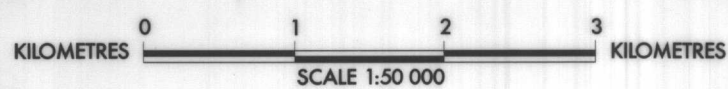
**PRE-CENOZOIC BASEMENT ROCKS**

- Y MAINLY GRANITIC INTRUSIONS (UPPER JURASSIC-LOWER CRETACEOUS ?)
- Z AN ASSORTMENT OF BASIC INTRUSIONS, SERPENTINITE AND PERIDOTITE (um) AND METAMORPHOSED BEDDED ROCK TYPES REFERRED TO LOCALLY AS THE ANARCHIST ASSEMBLAGE COMPRISING CONGLOMERATE (cg), CHERT (ch), GREENSTONE (gv), LIMESTONE (ls), AND MIXED SEDIMENTARY (s) AND VOLCANIC (v) ROCK TYPES

\*INFORMAL NAMES AFTER GEOGRAPHIC LOCALITIES, UNITS NOT FULLY DEFINED.

**SYMBOLS**

- BEDDING: .....
- FORMATIONAL BOUNDARY: - - - - -
- FAULT: - - - - -
- GLACIAL STRIAE: - - - - -
- STRUCTURAL CROSS-SECTION: - - - - -
- TOPOGRAPHICAL CONTOUR (INTERVAL, 500 FEET): ~~~~~
- CHEMICAL ANALYSIS STATION: ●
- K/Ar SPECIMEN LOCALITY: ■
- ROAD: =
- STREAM: ~~~~~
- LAKE: ○
- MINERALIZATION: Ni, Cr
- DYKE: //



17