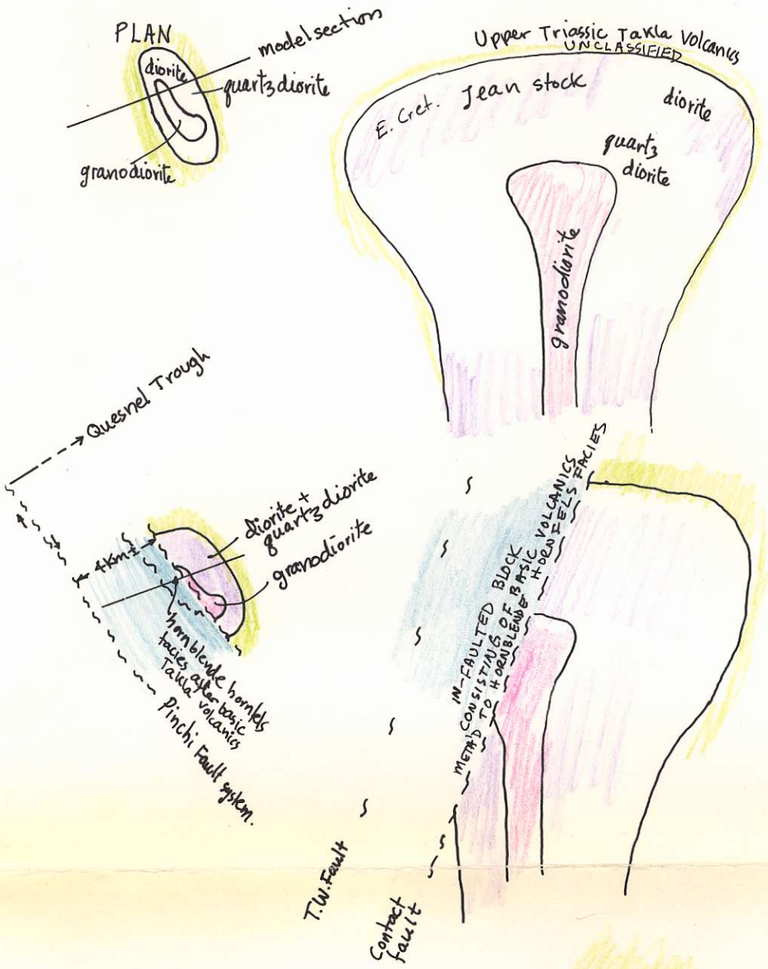
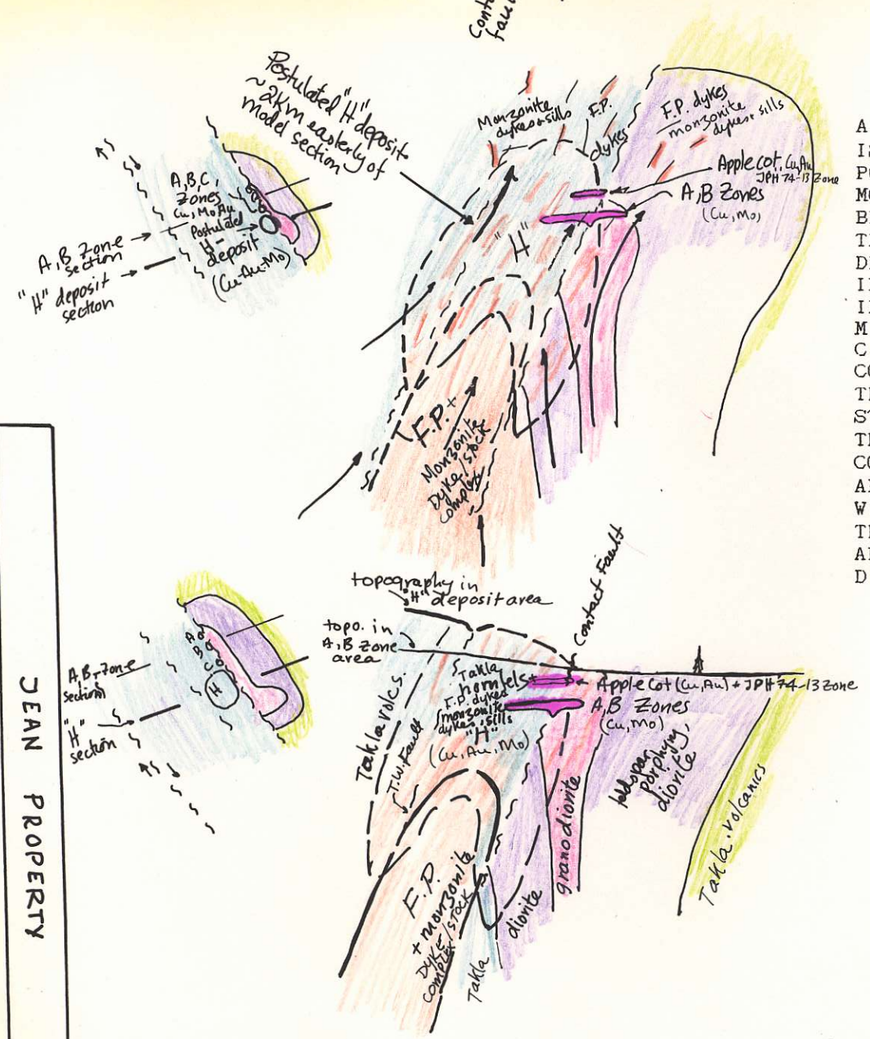


E. CRET. EMPLACEMENT OF THE ZONED JEAN STOCK A CALC-ALKALINE INTRUSION WHOSE HORNBLENDE AGE OF GRANODIORITE IS 131 Ma.

TERTIARY (?) STRIKE-SLIP FAULTING ASSOCIATED WITH THE NEARBY PINCHI FAULT SYSTEM BRINGS HORNBLENDE-GRADE HORNFELSES AFTER BASIC VOLCANIC INTO CONTACT WITH THE GRANODIORITE CORE OF THE JEAN STOCK. THIS IS THE CONTACT FAULT. A SECOND FAULT, THE T. W., IS A SUB-PARALLEL STRUCTURE CREATED AT THE SAME TIME.



A TERTIARY MINERALIZING EVENT IS ASSOCIATED WITH FELDSPAR PORPHYRY AND SYENITIC AND MONZONITIC INTRUSIONS EMPLACED BETWEEN THE TWO FAULTS. THE ACCOMPANYING FLUID FLOW DEPOSITS MINERALIZATION IN THE UPPER PART OF THE FELDSPAR INTRUSION AND THE DYKE SWARM. MINERALIZING FLUIDS ALSO CIRCULATE WESTERLY ALONG THE CONTACT FAULT AND DEPOSIT THE A AND B ZONES IN A STRUCTURALLY FAVORABLE AREA. THESE DEPOSITS FORM A SEMI-CONTINUOUS SHEET 2 KM IN LENGTH, AND OPEN TO THE EAST, AND ABOUT 300 M IN WIDTH AND ABOUT 30 M IN THICKNESS. THE DEPOSITS STRADDLES THE CONTACT FAULT AND SHOW SIGNS OF THICKENING DIRECTLY OVER THE FAULT.

Note: H-Anom. porphyry model based on McMillan, Pantelyev in Ore Deposit models Reprint Series 3 Geological Assoc. of Canada

DRAWN BY: RJB	
REVISED	
REVISED	
SCALE: diagrammatic	JEAN PROPERTY
DATE: May 1994	MODEL FOR PORPHYRY FORMATION
J94-7	

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