

**INDICATED**  
 BLOCK-9  
 Area of Section  $49 \times 12.5 \times 12.5 = 7656 \text{ m}^2$   
 Volume  $7656 \times 50 = 382,800 \text{ m}^3$   
 Mass  $382800 \times 3.3 \approx 1,263,000 \text{ tonnes}$

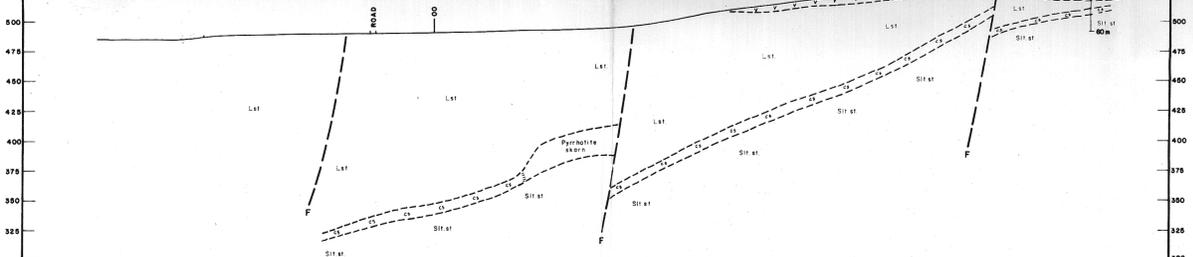
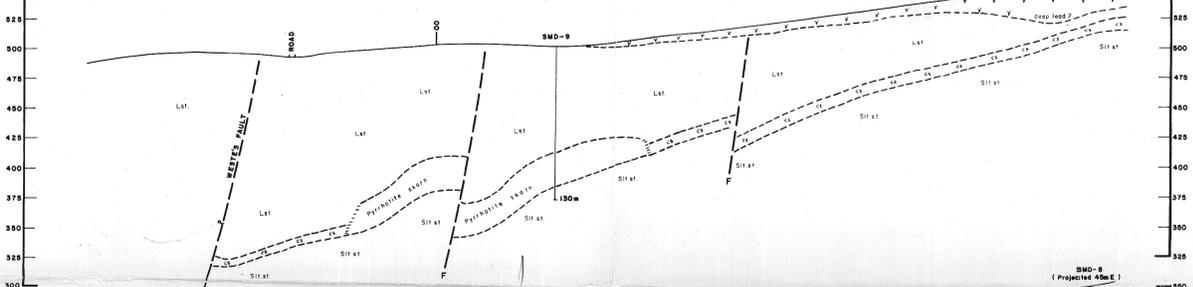
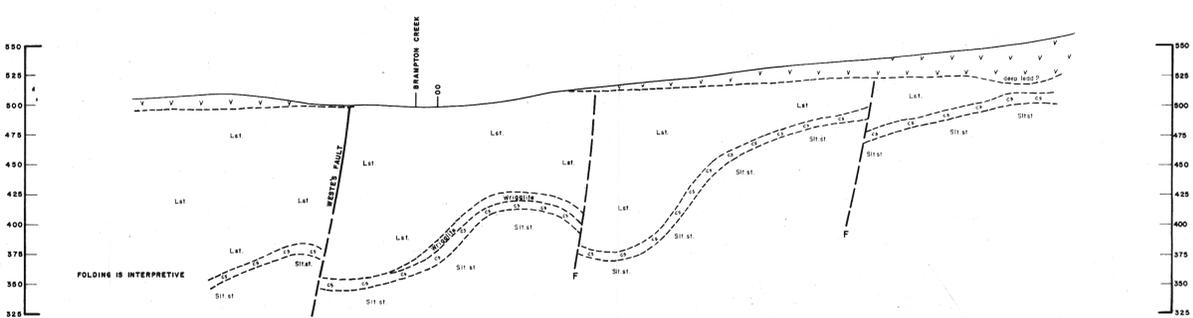
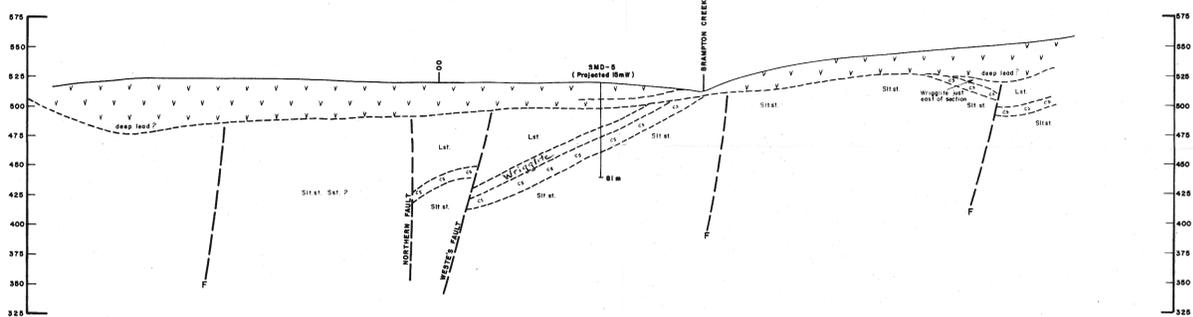
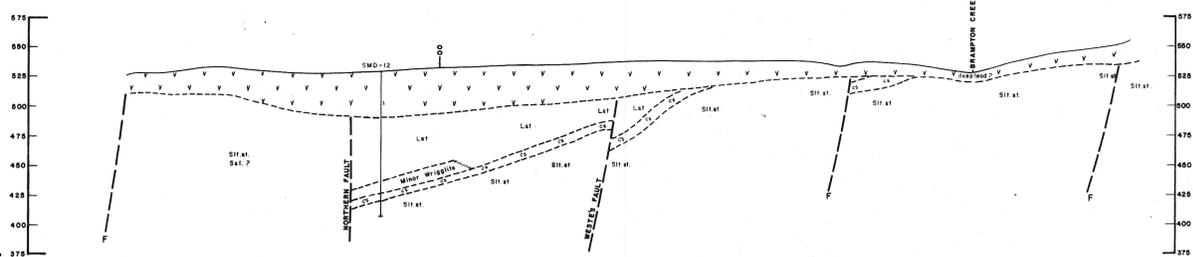
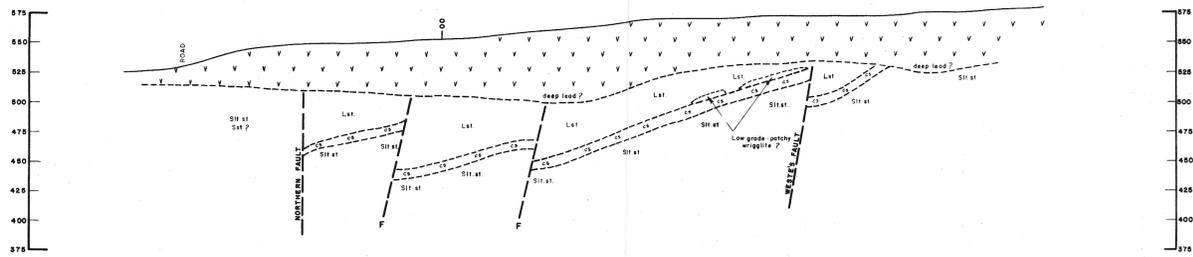
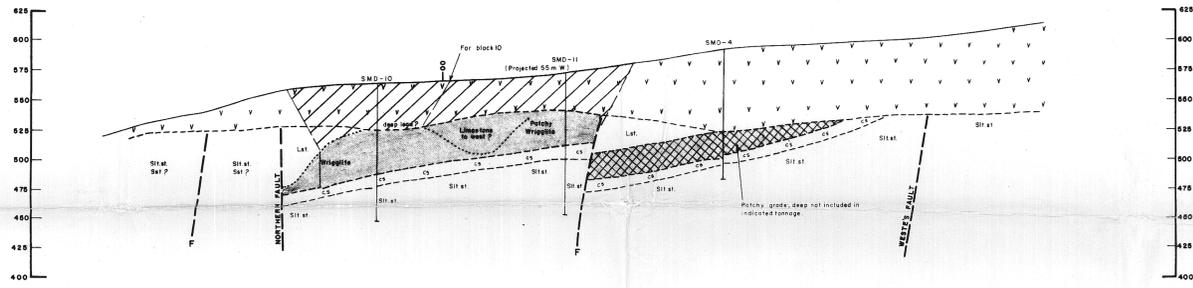
**BLOCK-10**  
 Area of Section  $24 \times 12.5 \times 12.5 = 3750 \text{ m}^2$   
 Average width about 45m  
 Volume  $45 \times 3750 = 168,750 \text{ m}^3$   
 Mass  $168750 \times 3.3 \approx 557,000 \text{ tonnes}$

**OVERBURDEN**  
 BLOCK-9  
 Area of Section  $42 \times 12.5 \times 12.5 + 4 \times 25 \times 25 = 6562 + 2500 = 9062 \text{ m}^2$   
 Volume  $9062 \times 50 = 453,100 \text{ m}^3$   
 plus northern batter  $50 \times 30 \times \frac{1}{2} \times 50 = 375,000 \text{ m}^3$   
 plus southern and western batter length 175m  
 Average depth 35m  
 Volume  $= 175 \times 20 \times \frac{1}{2} \times 35 = 61,250 \text{ m}^3$   
 Total Volume  $551,850 \text{ m}^3$   
 Mass  $551850 \times 2.5 = 1,379,625 \text{ say } 1,380,000 \text{ tonnes}$

**BLOCK-10**  
 Area of Section  $3 \times 25 \times 23 + 17 \times 12.5 = 1875 + 2666 = 4541 \text{ m}^2$   
 Volume  $= 45 \times 4530 = 203,850 \text{ m}^3$   
 plus edge batter all sides except east, length 170m or depth 40m  
 Volume  $= 170 \times 45 \times \frac{1}{2} \times 25 = 95,625 \text{ m}^3$   
 Total Volume  $299,475 \text{ m}^3$   
 Mass  $299475 \times 2.5 = 748,687 \text{ say } 749,000 \text{ tonnes}$

**LEGEND**

-  Indicated or inferred Wrigglite  
Assumed  $\rho = 3.3$
-  Overburden  
Assumed  $\rho = 2.5$  Limestone  
Basalt  
Sandstone  
Assumed  $60^\circ$  batter slope
-  Basalt
-  Calc Silicate rock



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**COMALCO LIMITED** 18-1305  
 E.L.7/74 "MOINA" TASMANIA  
 SHEPHERD & MURPHY MINE AREA  
 GEOLOGICAL SECTIONS  
 PRELIMINARY WRIGGLITE RESOURCE CALCULATIONS  
 SHEET-B

Compiled P.W.Askins	Revised:	Drawn M.Attwell
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