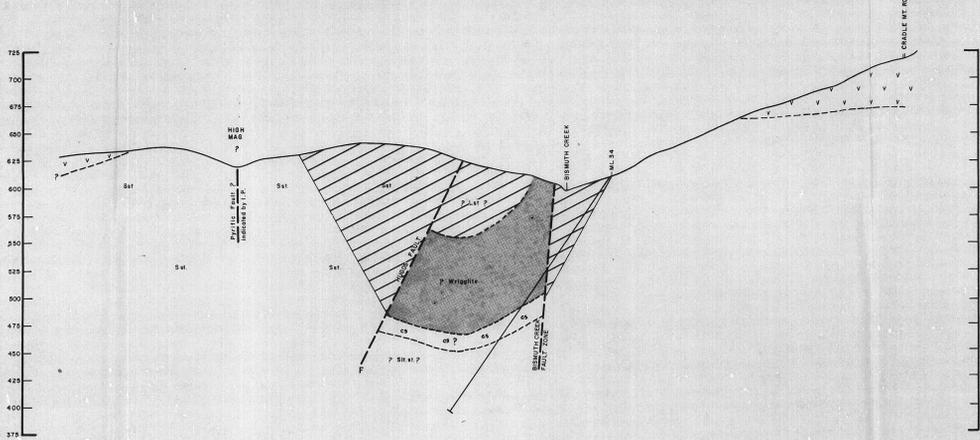


INDICATED Nil
INFERRED (Because of lack of understanding of geology here)
Area of Section 17x25x25 = 1,0600 m²
Volume 175x16,000 = 1,855,000 m³
Mass 1,855,000 x 3.3 = 6,121,500 tonnes

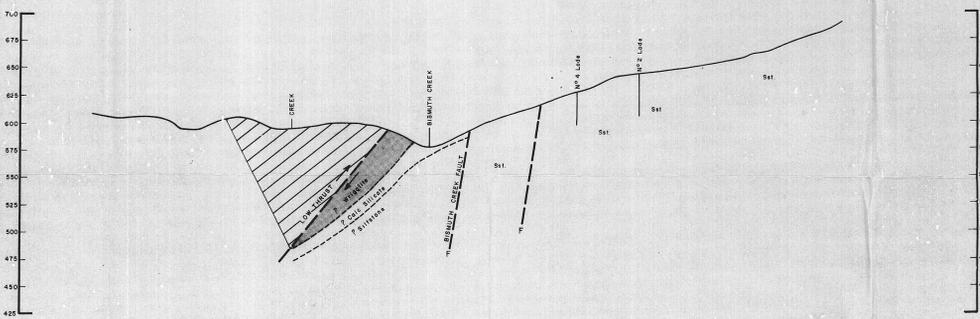
OVERBURDEN
Area of Section 26x25x25 = 16,250 m²
Block 1 Assume south contact dips parallel to open pit
 Assume north west contact incorporated into block 2
Volume 175x16,000 = 2,800,000 m³
Mass 2,800,000 x 2.5 = 7,000,000 tonnes



CROSS SECTION 1450 E

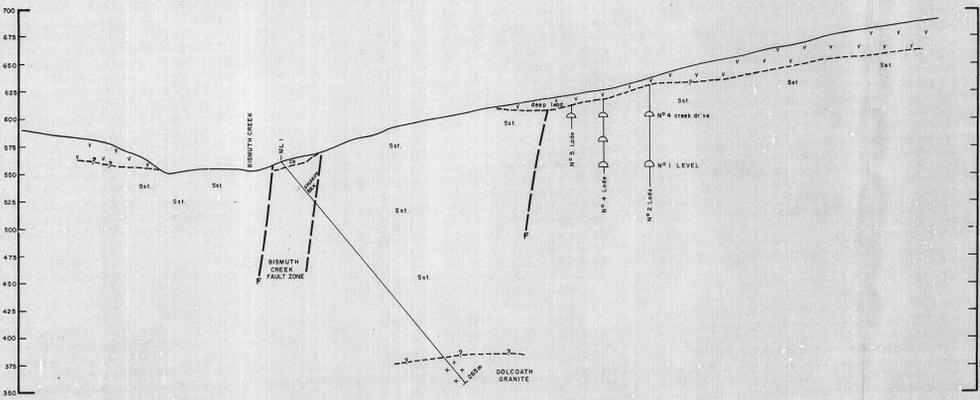
INDICATED Nil
INFERRED
Area of Section 14x12.5x12.5 = 2,000 m²
Block 2 100m across
Volume 100x2,000 = 200,000 m³
Mass 200,000 x 3.3 = 660,000 tonnes

OVERBURDEN
Block 2 Assume S.E. edge incorporated into block 1
 N.W. edge has additional batter.
Area of Section 1/2 x 130 x 130 = 8450
Volume 8450 x 100 = 845,000 m³ plus batter N.W. edge
 see W-E section
Approx. Volume 1/2 x 120 x 70 x 100 = 420,000 m³
Total Volume = 1,265,000 m³
Mass = 1,265 x 2.5 = 3.2 million tonnes



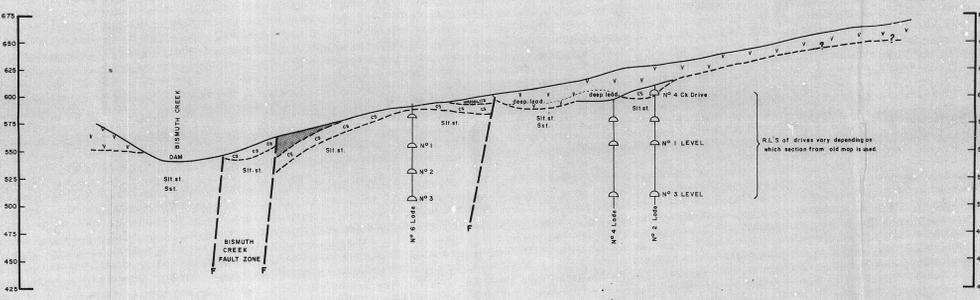
CROSS SECTION 1350 E

INFERRED Nil
INDICATED Nil



CROSS SECTION 1175 E

INFERRED Negligible
INDICATED Negligible



CROSS SECTION 1100 E

INDICATED Nil
Block 3
Area of Section = 16250 m²
 Because of dipping beds, half this area is assumed representative of whole block
 Average width of block is close to 50 m
Volume = 16250 x 1/2 x 50 = 406,250 m³
Mass 406,250 x 3.3 = 1,340,800 tonnes

OVERBURDEN Nil
Block 4
Area of Section = 9700 m²
 Because of irregular east edge of block, half this area is assumed representative
 of whole block. Average width of block about 30m.
Volume = 9700 x 1/2 x 30 = 145,500 m³
Mass 145,500 x 3.3 = 480,150 tonnes

OVERBURDEN
 Batter also along eastern edge, length 175m, depth to wriggite average 30m, with 60° slope
Volume 20 x 30 x 1/2 x 175 = 52,500 m³ plus area of section x average width of block
 i.e. 4840 x 30 = 145,200 m³
TOTAL VOLUME = 197,700 m³
Mass = 197,700 x 2.5 = 494,250 tonnes

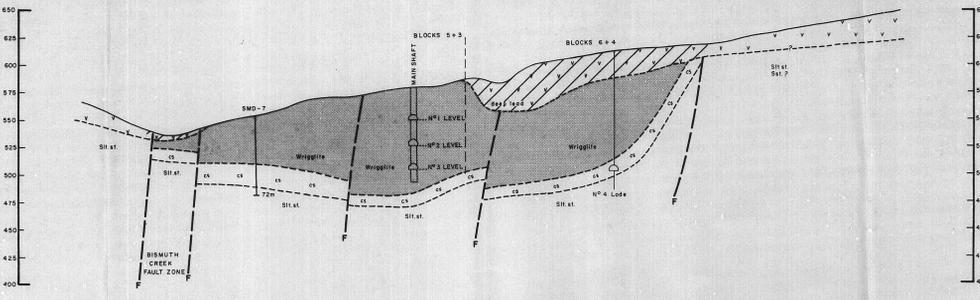
INDICATED Nil
Block 5
Area of Section 19 x 25 x 25 + 28 x 12.5 x 12.5 = 11875 + 4375
 = 16250 m²
 This area assumed representative of whole block
Volume = 16250 x 50 = 812,500 m³
Mass = 812,500 x 3.3 = 2,681,250 tonnes

OVERBURDEN Nil
Block 6
Area of Section 12 x 25 x 25 + 14 x 12.5 x 12.5 = 7500 + 2188 + 9688 m² say 9700 m²
 This area assumed representative of whole block
Volume = 9700 x 50 = 485,000 m³
Mass = 485,000 x 3.3 = 1,600,500 tonnes

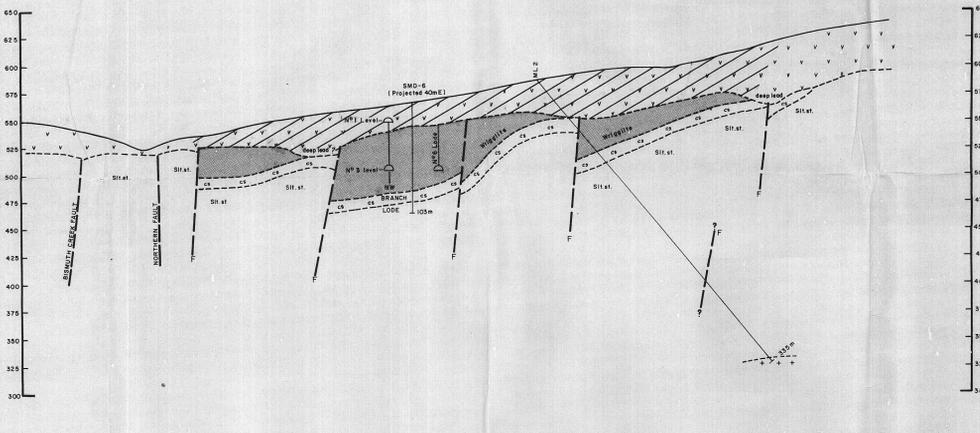
OVERBURDEN
Area of Section 31 x 12.5 x 12.5 = 4840 m²
Volume 4840 x 50 = 242,000 m³
Mass 242,000 x 2.5 = 1,210,000 tonnes

INDICATED
Block 7
Area of Section 54 x 12.5 x 12.5 + 5 x 25 x 25 = 8440 + 3125
 = 11,565 m²
Volume 11,565 x 100 = 1,156,500 m³
Mass 1,156,500 x 3.3 = 3,816,150 tonnes

OVERBURDEN
Area of Section 99 x 12.5 x 12.5 = 15,470 m²
Volume 15,470 x 100 = 1,547,000 m³
 Plus batter on western side, south end of block, length 250m
 average depth 35m
Volume 250 x 20 x 1/2 x 35 = 87,500 m³
 plus northern edge, 12.5 x 1/2 x 9 x 125 = 7030 m³
 plus southern edge, 55 x 1/2 x 35 x 100 = 96205 m³
TOTAL VOLUME 1,737,500 m³
Mass 1,737,500 x 2.5 = 4,343,750 tonnes
 say 4,344,000 tonnes



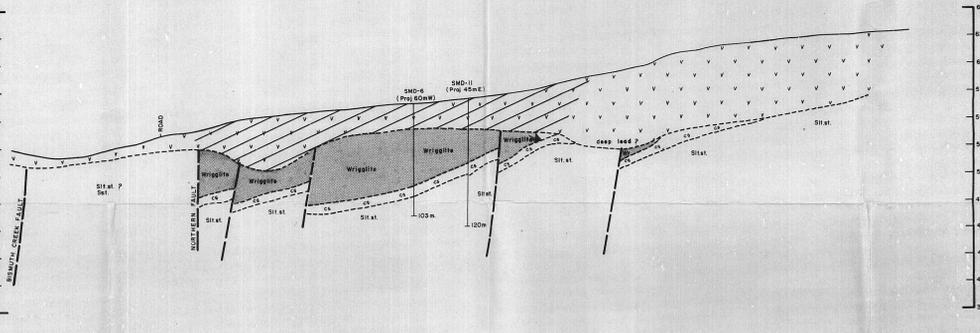
CROSS SECTION 1000 E



CROSS SECTION 900 E

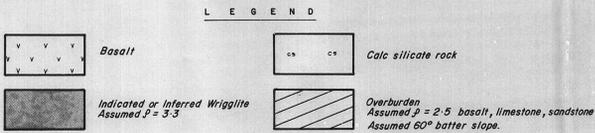
INDICATED
Block 8
Area of Section 45 x 12.5 x 12.5 + 7 x 25 x 25 = 7030 + 4375
 = 11,405 m²
Volume 11,405 x 100 = 1,140,500 m³
Mass 1,140,500 x 3.3 = 3,764,000 tonnes

OVERBURDEN
Area of Section 13 x 25 x 25 + 22 x 12.5 x 12.5 = 8125 + 3438
 = 11,563 m²
Volume 11,563 x 100 = 1,156,300 m³
 plus northern edge 15 x 1/2 x 10 x 100 = 7500 m³
 plus southern edge 50 x 1/2 x 25 x 100 = 62500 m³
TOTAL VOLUME 1,226,300 m³
Mass 1,226,300 x 2.5 = 3,065,750 tonnes
 say 3,066,000 tonnes



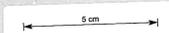
CROSS SECTION 800 E

SUMMARY
INDICATED WRIGGLITE TOTAL 15,501,000 tonnes
INFERRED WRIGGLITE TOTAL 6,560,000 tonnes
TOTAL OVERBURDEN OVER INDICATED + INFERRED WRIGGLITE TOTAL 21,443,000 tonnes
TOTAL OVERBURDEN OVER INDICATED WRIGGLITE TOTAL 11,243,000 tonnes
INDICATED WRIGGLITE / OVERBURDEN, RATIO = 1.38 : 1



NOTE: For Block Areas see separate plan.

221658



COMALCO LIMITED 78-1305
 E.L.7/74 "MOINA" TASMANIA
 SHEPHERD & MURPHY MINE AREA
 GEOLOGICAL SECTIONS
 PRELIMINARY WRIGGLITE RESOURCE CALCULATIONS
 SHEET-A

Compiled P.W.Askins Revised Drawn M.Attwell
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