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GOLD FIELDS EXPLORATION LIMITED

A PRELIMINARY ECONOMIC STUDY

OF THE

BEACONSFIELD GOLD PROJECT

TASMANIA

OPEN FILE

R.J. Hanson,
April 1985.

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Financial Evaluation Printout

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Financial Evaluation Printout

1.0 SUMMARY AND CONCLUSIONS

1. This indicative study of the Beaconsfield project shows that development of the mine would be uneconomic at the base case gold price of \$A400.00 and the currently estimated ore reserves. Sensitivity studies reveal that a real metal price increase of greater than 25% above the base case would be required to achieve an 8% real DCF yield. Therefore, gold, the major metal produced in dollar terms, must increase in price from \$A400.00 to above \$A500.00. It is thought likely, however, that the risks involved with this project would require a DCF yield significantly higher than 8% real.

2. Two major project development cases were examined. They were:-

Case 1 - Sequential development with a preproduction time of about 8 years and the major elements being:-

Minimal additional surface diamond drilling

Dewater Hart Shaft

Underground development and diamond drilling

Sink new production shaft

Production

Case 2 - Parallel development to reduce preproduction time to about 6 years with the following major steps:-

Significant additional surface diamond drilling

Dewater Hart Shaft and sink production shaft in parallel

Production

3. Listed below are the major assumptions and results of the study.

Metal Prices - Gold \$A 400/oz
 - Silver \$A 10/oz
 - Copper \$A2,000/tonne

Estimate In-Situ Ore Reserves

- 1.0 x 10⁶ tonnes at 24g/t Au
 4g/t Ag
 1% Cu

Annual Ore Production

- 75,000 tonnes including 20% mining dilution

Annual Metal Produced at Full Production and Overall Recovery

- Gold 43,794 oz - 90.8%
- Silver 6,371 oz - 79.2%
- Copper 531 tonnes - 85.0%

STUDY	OP. COST (\$/oz Au)	TOTAL	D.C.F.	N.P.V.
		CAPITAL (\$x10 ⁶)	YIELD (% REAL)	@ 8% REAL (\$x10 ⁶)
<u>CASE 1</u>				
Base	261.13	65.9	1.0	(21.9)
Metal Prices + 25%	261.13	65.9	7.5	(2.0)
Metal Prices + 50%	261.13	65.9	12.2	18.2
Capital - 20%	261.13	52.7	3.0	(13.9)
Operating Cost - 20%	208.90	65.9	4.7	(11.3)
Metal Grades + 25%	208.90	65.9	7.4	(2.6)
Metal Prices + 25%)				
Capital - 20%)	208.90	52.7	12.8	17.1
Operating Cost - 20%)				
<u>CASE 2</u>				
Base	261.13	65.0	1.6	(20.4)

4. The major reasons for the project being uneconomic are:-
- (a) High preproduction capital costs over an 8 year lead time (6 years in Case 2) and high ongoing capital costs due to;
 - dewatering and rehabilitation of old workings
 - sinking, equipping and later deepening of a new production shaft
 - major pumping installation for ongoing dewatering

- preproduction development
- 450 metres depth from the surface to mineable ore
- only 2,500 tonnes of ore per vertical metre
- ore treatment plant is complex and includes roasting.

- (b) High mine operating costs due to;
- labour intensive "small scale" non-mechanical stoping and development
 - high underground development costs per tonne due to low tonnes per vertical metre
 - high power and other costs associated with a very wet mine.

5. It must be stressed that major risks are associated with the development of this mine. If problems do occur then costs could be significantly greater or returns significantly less than those predicted in the study.

Major areas of risk are:-

- (a) The long lead time from initial capital expenditure to gold production - about 8 years in Case 1 or 6 years in Case 2.
- (b) The ore grades in diamond drill intersections vary greatly. A gold grade of 24 g/t has been assumed for this study as this is about the historic average. However, additional drilling prior to a full commitment to the project should reduce this risk.
- (c) The depth of mining operations and the associated problems of shafts, services, ground conditions, etc. The reef has been stoped out, prior to 1915, to a depth of about 450 metres. The mining operations proposed in this study are from this depth to about 850 metres.

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- (d) The cost and timing for dewatering and rehabilitation of the existing Hart Shaft is very difficult to predict. Estimates for this task can only be regarded as a guess.
 - (e) The potential water inflow rates below existing workings are unknown. The actual rate of inflow to previous workings has been assumed to continue. Dewatering at assumed rates is already a major cost, particularly due to the power consumed.
 - (f) The sinking of the new production shaft could be greatly affected by water inflow and/or ground conditions.
 - (g) Diamond core drilling has shown poor ground conditions in the immediate hanging wall of the reef. Ground problems could significantly increase stoping costs and ore dilution.

2.0 RECOMMENDATIONS

1. The course of action to be followed depends largely on gold price predictions and the required rate of return.

It is, however, clear that if one accepts the assumptions in this study, then a gold price in excess of \$A500.00 is required to justify continued participation in this project.

2. A detailed assessment of the ore reserve potential is required. Any reduction in the assumed in-situ gold grade of 24 g/t or in the current tonnage of 2,500 tonnes per vertical metre will increase the gold price required to develop the project. Conversely, if the grade or tonnes can be increased, then the project will become relatively more attractive.

It should be noted that, at present, there are some large undrilled areas within the section of reef proposed to be mined in this study, that is between 450 metres and 850 metres depth.

3. A significant reduction in the mine development time prior to commencement of production, would have a positive effect on the project D.C.F. yield. This could be achieved in either of two ways:-

- (a) By relying on the existing Hart Shaft as the main mine access and hoisting shaft and, therefore, avoiding the time and cost of sinking a new production shaft. This would, however, involve costs of sinking-on this shaft, providing a ventilation rise and second egress and loss of some ore in a shaft pillar. Also from an environmental point of view the collar location of this shaft has significant problems.

It is generally agreed that this option is no longer appropriate although this has been the technique proposed in previous studies.

- (b) By adopting a more rapid shaft sinking program or sinking technique for the production shaft. The technique currently proposed is the conventional drill, blast, muck and line system on a six day a week basis. Shaft drilling or boring techniques may reduce development time but would need careful evaluation when considering possible high water inflows, poor ground conditions and the requirement to cut plats.

3.0 INTRODUCTION

The aim of this study is to determine the economic viability of the Beaconsfield Project, Tasmania, under the current assumptions of tonnage, grade, metal prices, operating and capital costs. The results of this study along with an examination of appropriate sensitivities will be used to determine if additional expenditure is justified on this project.

The study is based broadly on the "Order of Magnitude Study, Beaconsfield" by the Minerals Exploration Division of Amax Australia Limited, dated June 1981 and subsequent updates.

All major assumptions have been examined and modified where necessary in the light of new information or revised concepts.

The major modifications to this study compared to the Amax June 1981 study are the provision of a new production shaft rather than relying on the Hart Shaft for long term access and hoisting, and the requirement for a roasting section within the treatment plant to achieve a satisfactory gold recovery.

All capital and operating costs have been updated to January 1985 values by reference, where possible, to the appropriate equipment or materials suppliers.

As the Amax study does not contain detailed back-up data it has been necessary to generate most costs from first principles.

The financial evaluation has been carried out with a computer model specifically written for this project.

4.0 GEOLOGY AND ORE RESERVES

4.1 Geology

The geology surrounding the Beaconsfield Gold Mine is dominated by a northwest trending sequence of Ordovician sediments, dipping 45-65° NE, including a 500 metre thick sandstone-siltstone formation (Transition Beds) underlain by the Cabbage Tree Conglomerate and overlain by the Gordon Limestone. The Beaconsfield Mine occurs on the eastern flank of an extensive ridge formed by the Cabbage Tree Conglomerate immediately west of the townsite.

Gold-bearing quartz veins are controlled by transverse fault structures cutting the sedimentary sequence. The principal auriferous quartz vein is the Tasmania Reef, developed as the Beaconsfield Mine, which trends northeast and dips 50-60° southeast with a 55° northeast plunge. The reef is also lithologically controlled, attaining a mineable thickness and grade where it traverses the Transition Beds, attenuating or pinching out as it approaches the adjacent conglomerate and limestone.

The reef has been mined continuously down plunge from surface to the 450 metre level, with strike length varying from 380-440 metres, and thickness varying irregularly along strike and down dip from 0.3-7.6 metres, averaging 2.1-2.4 metres.

On the lower levels, the reef averaged 390 metres length and occasionally split into two sub-parallel veins separated by 3-5 metres of country rock. This feature was well developed along a 100 metre section on the lowest level in the mine.

Free gold occurred in the rich upper levels of the mine. Below the 120 metre level, sulphides appeared with the gold, gradually increasing with depth. During the last few years

of production, lower gold values were accompanied by 5% pyrite, 2-3% chalcopyrite and minor sphalerite, galena and arsenopyrite. About 60% of the gold is intimately associated with the sulphides.

The Beaconsfield Gold Mine closed in 1914 after production of 26,500 kg of gold from 1,080,000 tonnes for an average yield of 25 grams per tonne gold. Annual mining rate averaged about 55,000 tonnes. Mine closure was caused by a combination of factors including increased mining costs, lower grade ore with increased sulphide content, and lack of capital to deepen the shaft to develop below the 40 metre level.

Mill head grades averaging 14.5 g/t gold were reported from the bottom level, where dilution due to mining overbreak was about 50% possibly caused by shortage of mill feed (vein width 2.1m, stope width 3.2m).

Mine records indicate that a production yield of 2,000-2,500 tonnes per vertical metre was maintained throughout the down plunge extent of the Tasmania Reef from surface to the 250 metre level. Above the 250 metre level, average recovered grade was 35 g/t Au (1.14 oz/ton). Recovered grade dropped below the 250 metre level, averaging 14 g/t Au (0.46 oz/ton) with the bottom 4 levels yielding 12 g/t Au (0.40 oz/ton). The average recovered grade of 14.5 g/t Au for the bottom 450 metre level was a considerable improvement on the yield from the two levels above.

Apart from production figures, the only record of the variations of the reef and contained gold values in the lower mine levels is presented on a longitudinal section showing stope outlines and lode thickness, and average grade at 20-40 metre sample intervals from the 250 metre to the lowest 450 metre level. This data shows an improvement in

grade from the 380 metre level to the 450 metre level, and support old company reports which quote an average grade of 20 g/t gold over 2.1 metre vein width along 286 metres developed on the 450 metre level, compared with 13.5 g/t gold over 1.5 metre vein width along the same section on the 420 metre level above.

Surface diamond drilling was carried out by the Tasmanian Mines Department (1964-1965) and Allstate (1973-1974) to investigate the potential at depth below the mine workings. Two holes were successful in intersecting the reef and three additional intersections were obtained by wedging. These five intersections occur in a cluster 80-120 metres below the 450 metre level, and averaged 34 grams per tonne gold over an average width of 3.85 metres.

4.2 Ore Reserves

Tonnage and grade estimates were determined in discussions with L.A. Newnham of G.F.E.L. and are basically the exploration objective.

This study has assumed that the reef continues to a further 400 metres depth, that is, from the base of the previous workings at 450 metres down to 850 metres. It is also assumed that the productive capacity of the reef is maintained at 2,500 tonnes per vertical metre.

This capacity and depth provides an estimate in-situ reserve of 1,000,000 tonnes of reef material.

Estimated in-situ ore grades are 24 g/t Au, 4 g/t Ag and 1% Cu.

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5.0 MINE PLAN

5.1 Mining Reserves

The following factors have been considered in determining the mining reserves:-

- (a) Assume 90% recovery of in-situ reserves.
- (b) Assume 20% mining dilution at zero grade, due to:-
 - the combination of poor hanging wall as indicated by drill core for 2 to 5 metres immediately adjacent to the reef and the relatively flat mining dip of 55°;
 - the narrowness of the vein, about 2 metres, which could be expected to generate overbreak;
 - the proposed mining method, cut and fill, which must lead to some fill dilution.

It is believed that 20% mining dilution is conservative and could well be exceeded, however, this could be counteracted by some grade in the diluting material.

Mining reserves are therefore:-

1,000,000 x 0.9 = 900,000 tonnes
 plus dilution of 20% = 900,000 x 1.2
 Therefore minable ore = 1,080,000 tonnes

Mineable grades are: Au = 20 g/t
 Ag = 3.3 g/t
 Cu = 0.8%

5.2 Production Plan

As for the Amax study, the mine design production capacity is 300 tonnes per day of ore. Assuming 250 working days per year, the annual production will be 75,000 tonnes.

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The production build-up in production years 1 and 2 is 30% and 90% of the full production rate respectively.

The mine has a production life of 15 years after rounding off to the last full year. The production plan proposed is:-

	YEAR 1	YEAR 2	YEARS 3 to 15
Tonnes Ore Hoisted	22,500	67,500	75,000

Grades have been assumed constant over the life of the project.

Waste production has been calculated at 25,000 tonnes for years 1 to 13 inclusive.

5.3 Mine Development

The basic mine development philosophy takes the following major steps:-

- further surface diamond drilling;
- dewater and rehabilitate the existing Hart Shaft;
- sink and equip a new production shaft;
- main level and ore body development;
- stope production.

This is the first study in which a new production shaft has been proposed. Previously the rehabilitated Hart Shaft was to serve this purpose.

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At the commencement of this study the following personnel, as well as the author, agreed that a new shaft would be necessary:-

G.G. Northcote - R.G.C.

L.A. Newnham - G.F.E.L.

B. Blanchard - Austamax

The reasons for this decision are:-

- (a) The uncertainty regarding the long term stability of this shaft as the main mine access and hoisting shaft. It should be remembered that this shaft would have to be deepened to approximately twice its current depth for extraction of the mining reserves outlined in this study.

It is, however, proposed that this shaft be used as an exhaust airway, for location of rising mains and stage pump stations. A winder would be maintained at the shaft for access and servicing.

- (b) Environmental factors relating to the location of the shaft collar. As the shaft is located to the west of the town of Beaconsfield and the proposed treatment plant will be to the east, all ore and waste would have to be trucked through the town, placing restrictions on a multishift operation, and/or requirements to upgrade and maintain public roads. Also, the existing engine houses at the Hart and Grubb Shaft collars are important tourist attractions and are affected by conservation orders. These activities and requirements would be a significant cost to the proposed mine and would have a major impact on operational flexibility, surface facility layout, safety and site security.

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The site for the proposed new production shaft is restricted by existing town infrastructure, the need to avoid known areas of poor ground conditions and water bearing strata and at the same to minimise underground development distances.

The site selected is that proposed by G.F.E.L. and is to the east of the existing Hart Shaft on the eastern town boundary between the public school and the water settling dam. The shaft location relative to the Tasmania Reef is shown on Figures 5.1 and 5.2. It can be seen that the shaft would intersect the reef "channel" at about the 1,000 metre R.L. level.

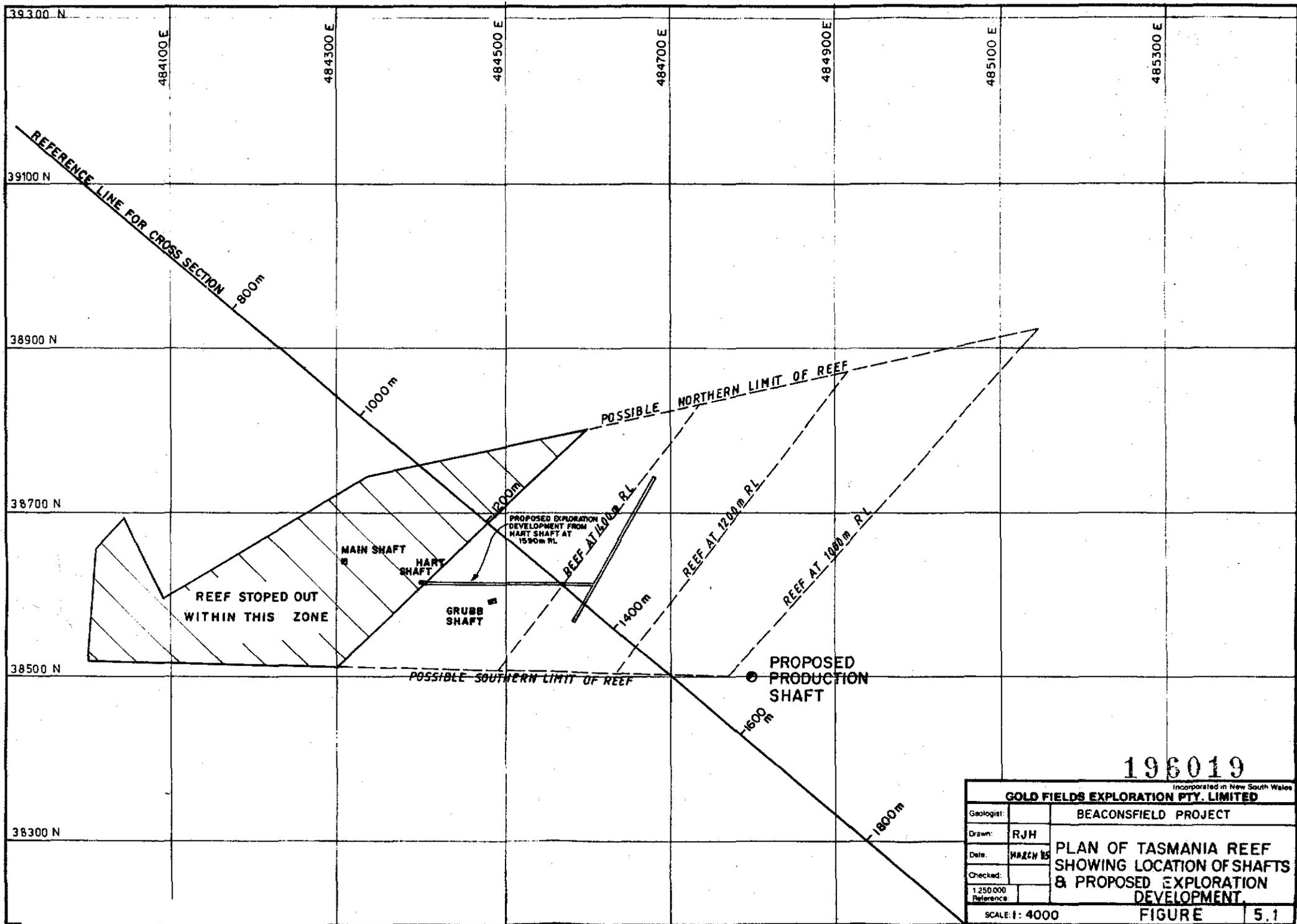
5.4 Development Schedule

Two development alternatives have been proposed, namely Case 1 and Case 2. Case 1 is a sequential development of the mine whilst Case 2 includes parallel development where possible. These development schedules are included as Figures 5.3 and 5.4.

It can be seen that development lead time for Case 1 is 8 years whilst Case 2 is 6 years. It should be noted that these times do include further exploration. Each Case is divided into Stages 1 and 2. Stage 1 covers the activities required to bring the mine to production whilst Stage 2 is ongoing development required to allow extraction of the estimated mining reserve. The two stage approach was taken to reduce the development time which would be required if the shaft was sunk initially to ultimate depth, but at the same time expose sufficient ore to allow the sink-on to be completed without interruption to the ore production.

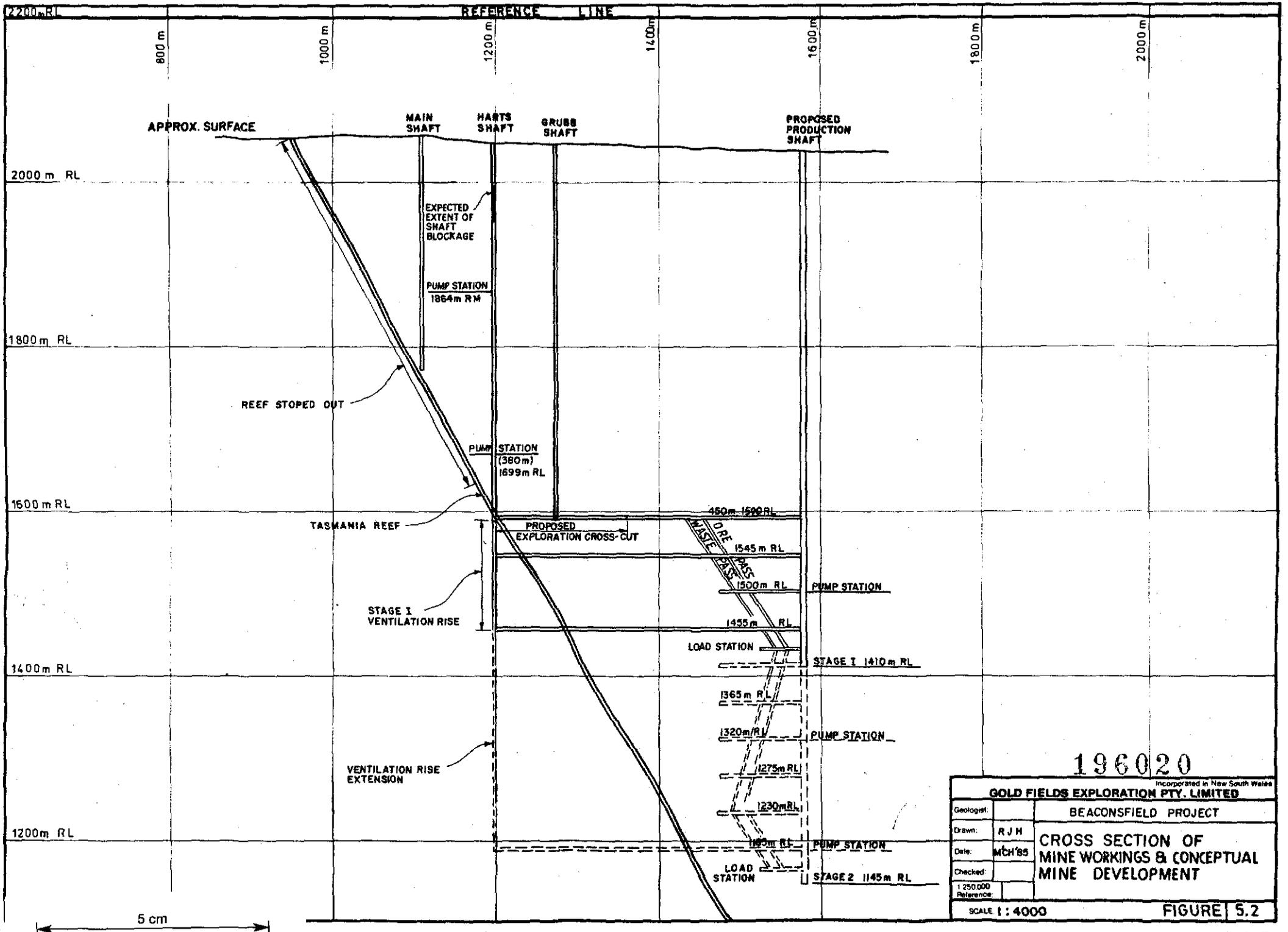
It should be noted that minimal planning consideration has been given to the Stage 2 sink-on, and significant extra costs may be involved.

The major elements in each Case are described below, along with estimated times to complete.



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<small>Incorporated in New South Wales</small>	
GOLD FIELDS EXPLORATION PTY. LIMITED	
Geologist:	BEACONSFIELD PROJECT
Drawn:	RJH
Date:	MARCH 85
Checked:	
1:250,000 Reference	
SCALE 1: 4000	FIGURE 5.1



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<small>Incorporated in New South Wales</small>	
GOLD FIELDS EXPLORATION PTY. LIMITED	
BEACONSFIELD PROJECT	
Geologist:	
Drawn:	R J H
Date:	MCH '85
Checked:	
Reference:	1:250,000
CROSS SECTION OF MINE WORKINGS & CONCEPTUAL MINE DEVELOPMENT	
SCALE 1:4000	FIGURE 5.2

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FIGURE 5.3

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BEACONSFIELD PROJECT - DEVELOPMENT SCHEDULE - CASE 1

MINE DEVELOPMENT	PROJECT YEAR													
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6
Ore Hoisted (000 tonnes)	-	-	-	-	-	-	-	-	22.5	67.5	75	75	75	75
Hart Shaft Maintenance	x	x												
Feasibility Study	x													
Surface Diamond Drilling	x	x												
Feasibility Study - Update		x												
Hart Shaft Dewatering														
Tender/Mobilise		x												
Headframe/Winder		x												
Dewater/Rehabilitation			x											
Pump Station 1864 RL			x											
Pump Station 1669 RL			x											
Underground Development				x										
Underground Expl. Drilling				x										
Feasibility Study - Update				x										
Production Shaft - Stage 1														
Tender/Presink/Headframe					x									
Sink and Line (605m)						x								
Plat Development							x							
Excavate Load Station							x							
Pump Station 1500 RL							x							
Equip Shaft								x						
Production Winder/House								x						
Ropes/Conveyances, etc.								x						
Permanent Services								x						
Demobilise									x					
Preproduction Development - Stage 1														
Ore and Waste Passes								x						
Horizontal Development								x						
Ventilation Rise								x						
Production Shaft - Stage 2														
Tender/Mobilise								x						
Sink and Line (265m)									x					
Plat Development										x				
Excavate Load Station										x				
Pump Station 1320 RL											x			
Equip Shaft											x			
Ropes/Load Station												x		
Permanent Services												x		
Pump Station 1185 RL													x	
Demobilise														x
Preproduction Development - Stage 2														
Ore and Waste Passes												x		
Horizontal Development												x		
Ventilation Rise												x		

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FIGURE 5.4

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BEACONSFIELD PROJECT - DEVELOPMENT SCHEDULE - CASE 2

MINE DEVELOPMENT	PROJECT YEAR											
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6
Ore Hoisted (000 tonnes)	-	-	-	-	-	-	22.5	67.5	75	75	75	75
Hart Shaft Maintenance	x	x										
Feasibility Study	x											
Surface Diamond Drilling	x	x										
Feasibility Study - Update		x										
Hart Shaft Dewatering												
Tender/Mobilise			x									
Headframe/Winder			x									
Dewater/Rehabilitation				x								
Pump Station 1864 RL			x									
Pump Station 1669 RL				x								
Production Shaft - Stage 1												
Tender/Presink/Headframe			x									
Sink and Line (605m)				x								
Plat Development					x							
Excavate Load Station					x							
Pump Station 1500 RL						x						
Equip Shaft						x						
Production Winder/House						x						
Ropes/Conveyances, etc.						x						
Permanent Services						x						
Demobilise							x					
Preproduction Development												
- Stage 1												
Ore and Waste Passes							x					
Horizontal Development							x					
Ventilation Rise							x					
Production Shaft - Stage 2												
Tender/Mobilise						x						
Sink and Line (265m)							x					
Plat Development								x				
Excavate Load Station								x				
Pump Station 1320 RL									x			
Equip Shaft									x			
Ropes/Load Station										x		
Permanent Services										x		
Pump Station 1185 RL											x	
Demobilise												x
Preproduction Development												
- Stage 2												
Ore and Waste Passes										x		
Horizontal Development										x		
Ventilation Rise										x		

Case 1 - Stage 1

Hart Shaft Maintenance - Maintenance of water level at 50 metres till further shaft dewatering commences.

Surface Diamond Drilling - Additional holes from surface to justify further development - 6 months

Hart Shaft Dewatering - Tender/Mobilise - 6 months

Headframe/Winder Installation - 3 months

Dewater/Rehabilitate Shaft - This includes removal of rubble from approximately 50 to 95 metres depth, removal of pump beams and securing or replacement of sets where necessary - 12 months (subject to significant over-run if problems occur)

Pump Stations 1864mRL and 1669mRL - It is assumed that existing development will be utilised for these stage pump stations. Activities will include ground support, dam wall construction, pump and electrics installation - 3 months each in parallel with dewatering.

Underground Development - For exploration drilling.

Distance 400 metres - 6 months.

Underground Drilling - 5,000 metres, some in parallel with development - 9 months.

Feasibility Study - Detailed to determine project status - 6 months.

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Production Shaft Stage 1 - Timing based on data from
Hardcastle and Richards report,
"Access Alternatives - Order of
Magnitude Study, Beaconsfield
Mine", July 1981.

See Table 5.1.

Design, Tender, Presink, Headframe Installation - 10 months.

Sink and Line - 5 metre diameter, 605 metres deep, concrete
lined shaft - 14 months.

Plat Development - Total 500 metres at 2.4 x 2.1 metre
section including ventilation connection
on 1,590mRL level - 8 months.

Excavate Load Station - 560m³ - 1 month.

Excavate and Equip Pump Station, 1,500mRL - Volume excavated
5,000 m³ -
8 months.

Equip Shaft - Steel sets, guides, etc. - 3 months.

Production Winder/Winder House - Installation of permanent
winder - 1 month.

Ropes/Conveyances/Load Station - Rope shaft and install load
station steel work -
1 month.

Permanent Services - Install air and water pipes, cables,
etc. - 1 month.

Demobilize - 1 month.

Preproduction Development - Stage 1

Ore and Waste Passes - 400 metres at 1.2 metre diameter -
1 month.

Horizontal Development - Development of 1,545mRL level for
slope access and 1,455mRL level
for ventilation connection -
3 months.

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TABLE 5.1

PROGRAMME FOR SINKING TO 640 METRES

(Derived from Hardcastle and Richards report
 "Access Alternatives - Order of Magnitude Study", July 1981)

ACTIVITY	WEEKS	PROG WEEKS
1. Design and prepare specifications	16	16
2. Tender and award contract	8	24
3. Contractor plan procure mobilise	6	30
4. Construct collar to 20m prepare foundations	8	38
5. Erect headframe, install equipment and commission	6	44
6. Sink and line to 200m @ 8m/w	22	66
7. Excavate and line 200m plat	2	68
8. Sink and line to 410 plat @ 10m/w	21	89
9. Connect to Hart Shaft and Line Plat	9	98
10. Sink and line to 460m plat	6	104
11. Excavate and line 460 plat	5	109
12. Sink and line to 505 plat	7	116
13. Excavate and line 505 plat	5	121
14. Sink and line to 550 plat	7	128
15. Excavate and line 550 plat	5	133
16. Sink and line to 595 plat	7	140
17. Excavate and line 595 plat	5	145
18. Sink and line to 640 plat	7	152
19. Excavate loading arrangements	4	156
20. Prepare to equip	2	158
21. Equip shaft	8	166
22. Commission permanent hoisting	6	172
23. Development first level	20	192
24. Start stoping	-	193

Ventilation Rise - ventilation connection from 1,455mRL level to base of Hart Shaft at 1.8 metre diameter - 1.5 months.

Case 1 - Stage 2

Due to operational constraints, development rates proposed for Stage 2 are at half the rate of those used in Stage 1.

Tender/Mobilize, etc. - 6 months.

Sink and Line - 265 metres - 12 months.

Plat Development - 800 metres, including ventilation cross-cut at 1,180mRL level - 12 months.

Excavate Load Station - 560m³ - 2 months.

Excavate and Equip Pump Station 1,320mRL - 5,000m³ -
14 months.

Equip Shaft - 4 months.

Ropes/Load Station - Extend ropes and install new load station - 1 month.

Permanent Services - 1 month.

Excavate and Equip Pump Station 1,185mRL - 5,000m³ -
14 months.

Demobilise - 1 month.

Preproduction Development - Stage 2.

Ore and Waste Pass Extensions - 600 metres at 1.2 metre diameter - 2.5 months.

Horizontal Development - 500 metres - 3 months.

Ventilation Rise Extension - 300 metres at 1.8 metres diameter - 2.5 months.

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Case 2

This case requires that all necessary exploration drilling is completed from the surface, and therefore the underground exploration development and drilling from the Hart Shaft is no longer required. As a result, the Hart Shaft can be dewatered in parallel with the sinking of the new production shaft. Stage 2 is identical in both cases.

The revised components for Case 2- Stage 1 are:-

Surface Diamond Drilling - 8,300 metres - 12 months.

Detailed Feasibility Study brought forward to be prior to any dewatering or shaft sinking.

5.5 MINING METHOD

5.5.1 Development

Main levels will be developed at 45 metre vertical intervals from the production shaft. Heading size will be 2.1 x 2.4 metres. Orebody access will be by main cross-cut developed from the shaft plat on the hanging wall side of the reef, to a position to the footwall of the reef, thence a footwall drive and cross-cuts to stope pass and manway locations within the reef.

All level and stope development, both driving and rising, will be by hand held air-leg machines and rail loaders. A rubber tyred Cavo 310 has been included for development of cuddies, chambers, etc., away from installed tracks.

Development performance calculations are included in Appendix A.

5.5.2 Stoping

The proposed stoping method is overhand cut and fill. This technique has been proposed previously and is still thought to be most applicable to this narrow, relatively flat dipping reef.

Stopes will be developed by sill driving at the level horizon, commencing from the stope cross-cut. A manway/ventilation/fill rise will be developed to the level above, on the footwall of the reef. Rise dimensions will be 1.5 x 1.8 metres. The rises will be equipped with ladder ways and slides. A chute front will be constructed at the level horizon on the reef/footwall contact.

Assuming the reef is 400 metres long on each level, five stopes will be developed. Each stope will be 80 metres long, that is 40 metres in each direction from the central stope ore pass. The reef will be extracted to the adjoining stope boundary or reef extremity. No rib pillars will be left between stopes.

Drilling will be by hand held air-leg machines and ore removal by double drum scraper. A Cavo 310 has been included as some sections of the reef are expected to be wider than 3 metres and therefore this higher productivity loader could be utilized.

Considerable ground support in the form of rockbolting is envisaged.

Fill will be classified mill tailings delivered by pipe from a storage tank and pump station at the treatment plant. Fill reticulation will be by rubber-lined steel and poly pipes. A fill demand of 0.5 tonnes per tonne mined has been assumed and should be available at satisfactory sizing from the treatment plant. A possible problem will occur with the hydraulic fill if ground water percolates through the filled stopes. This could easily wash out fill which has been placed previously, causing stope operating problems and requiring considerable level cleaning.

Stoping performance data is included in Appendix A.

5.5.3 Other Mining Activities

Rail haulage will take place on each level. Locos will be 3 tonne, each hauling five x 2 tonne granbys. Two trucking crews of two men each are provided on each shift. It is assumed that development crews will do their own trucking with additional rolling stock provided.

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Hoisting will take place on two shifts, with sufficient surface shaft bin capacity for one shift's hoisting. Winder drivers will be provided on three shifts at the production shaft and two shifts at Hart Shaft to allow continuous underground access for pumping operations.

Mining service crews provided include pipe fitters, plate layers, level timbermen and labourers.

Truck drivers are included to truck ore and waste in two 10 tonne trucks to the treatment plant or waste dump. It is assumed that trucking will take place on day shift only due to the proximity to the town.

5.6 Mine Services

5.6.1 Pumping

The following briefly describes the procedure proposed for mine dewatering and ongoing mine pumping. Pumping is a major cost due to the power consumed.

Calculations and backup are included in Appendix A. Also refer to Figure 5.2 for diagrammatic pump station locations.

Stage 1: Dewatering Hart Shaft and Old Workings.

Using the Ritz pumps, and possibly some smaller submersibles while clearing rubble at the top of the shaft, this shaft will be dewatered over a period of twelve months. During this period the 1,864mRL and 1,699mRL pump stations will be constructed and used to stage pump water to the surface as the Ritz pumps are progressively lowered below the respective pump station.

The 1,864mRL and 1,699mRL pump stations will be equipped with three multi-stage centrifugal pumps each. The pumps selected for this study are the Ingersoll Rand 6GT, 450 kW model.

Each Ritz and 6GT pump has a capacity of 150 l/s.

The pumping requirement during the dewatering phase is 282 l/s.

Stage 2: Operating Phase

As part of the production shaft project, the 1,500mRL pump station will be constructed. The Amax study indicated a construction volume of 5,000m³. This volume initially seems large but on examining pumping rates is probably not excessive. The operating pumping rate is assumed to be 175 l/s. Assuming 75% of the pump chamber is available for storage, this only provides about 7 hours storage capacity. This pump station will also be equipped with three I.R. 6GT pumps. This allows one pump out for maintenance, one in continuous operation and one for water surges expected as development strikes water bearing ground.

The twin pump columns will conduct water from the 1,500mRL pump station, up the production shaft, across the 1,590mRL cross cut, up the Hart Shaft to the 1,699mRL pump station. From here, the water would be staged in two rising mains to the 1,864mRL pump station and thence the surface.

Miscellaneous pumps have been included for shaft bottom, development heading etc., pumping.

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Stage 3: Operating Phase - Stage 2

The stage 2 development will require development of two additional pump stations to the 1,320mRL and 1,185mRL levels. These stations would be identical to the 1,500mRL station. Water would continue to be staged from one station to the station above.

During and after dewatering, care must be taken to ensure all large pockets of water trapped in old workings are drained to prevent the risk of sudden water or mud rushes into working areas.

It is possible that as the dewatering lowers the local water table, some surface subsidence will occur. It will probably therefore be necessary to survey structures for damage prior to any dewatering.

5.6.2 Compressed Air

Compressed air will be provided by a 4,000 cfm compressor located near the production shaft. This compressor is significantly larger than that proposed in previous studies but believed to be justified. See Appendix A for calculations.

5.6.3 Mine Ventilation

It is assumed that the new production shaft will be the main downcast airway with exhaust being via the Hart Shaft. The necessary fan, with a duty of about $28\text{m}^3/\text{sec}$ at 1.5 kpa will be surface mounted at the Hart Shaft. A spare will be provided.

Currently, a significant amount of H₂S gas emanates from discharging mine water. It is not known if this will be a problem once the workings have been dewatered.

5.6.4 Hoisting

Hoisting of ore and waste will be carried out two shifts per day, five days per week.

Annual ore and waste tonnages are planned to be 75,000 and 25,000 tonnes respectively.

The winder proposed is a 400 kW friction winder with a skip/cage and skip in balance. Skip capacity would be about two tonnes. The cage will be large enough to allow rapid shift change, as well as transport of locos, gear trolleys, etc.

6.0 METALLURGY

The basic metallurgical philosophy adopted is outlined in the simplified flowsheet, included as Figure 6.1, the major processing stages being as follows:-

1. Run of mine ore comminuted in a two stage crushing plus one stage ball mill grinding circuit.
2. Free gold recovery by means of a spiral/shaking table combination. The gravity concentrate product is further processed in an amalgam barrel, the gold bearing amalgam being retorted for the production of bullion prior to joining electrowon cathode in the smelting stage.
3. Differential flotation to produce a low (15%) copper/gold rich saleable concentrate, and a gold rich pyrites concentrate.
4. Fluidised bed roasting of the pyrites concentrate to facilitate liberation of its gold content for efficient recovery in the leaching stage.
5. Water washing of the roaster calcine in order to remove any base metal sulphates, e.g., copper sulphate, which would give rise to increased lime and cyanide consumptions during leaching operations.
6. Cyanide leaching for the dissolution of the gold values in the washed roaster calcine.
7. Carbon-in-pulp processing of the leached pulp, embracing activated carbon gold adsorption followed by caustic cyanide desorption (elution) of gold from the loaded carbon.
8. Electrowinning of the gold content of the eluted solution to produce gold rich cathode.
9. Electrowon cathode and bullion, ex gravity separation, smelted for the production of saleable gold ingot.

SIMPLIFIED BEACONSFIELD METALLURGICAL FLOWSHEET

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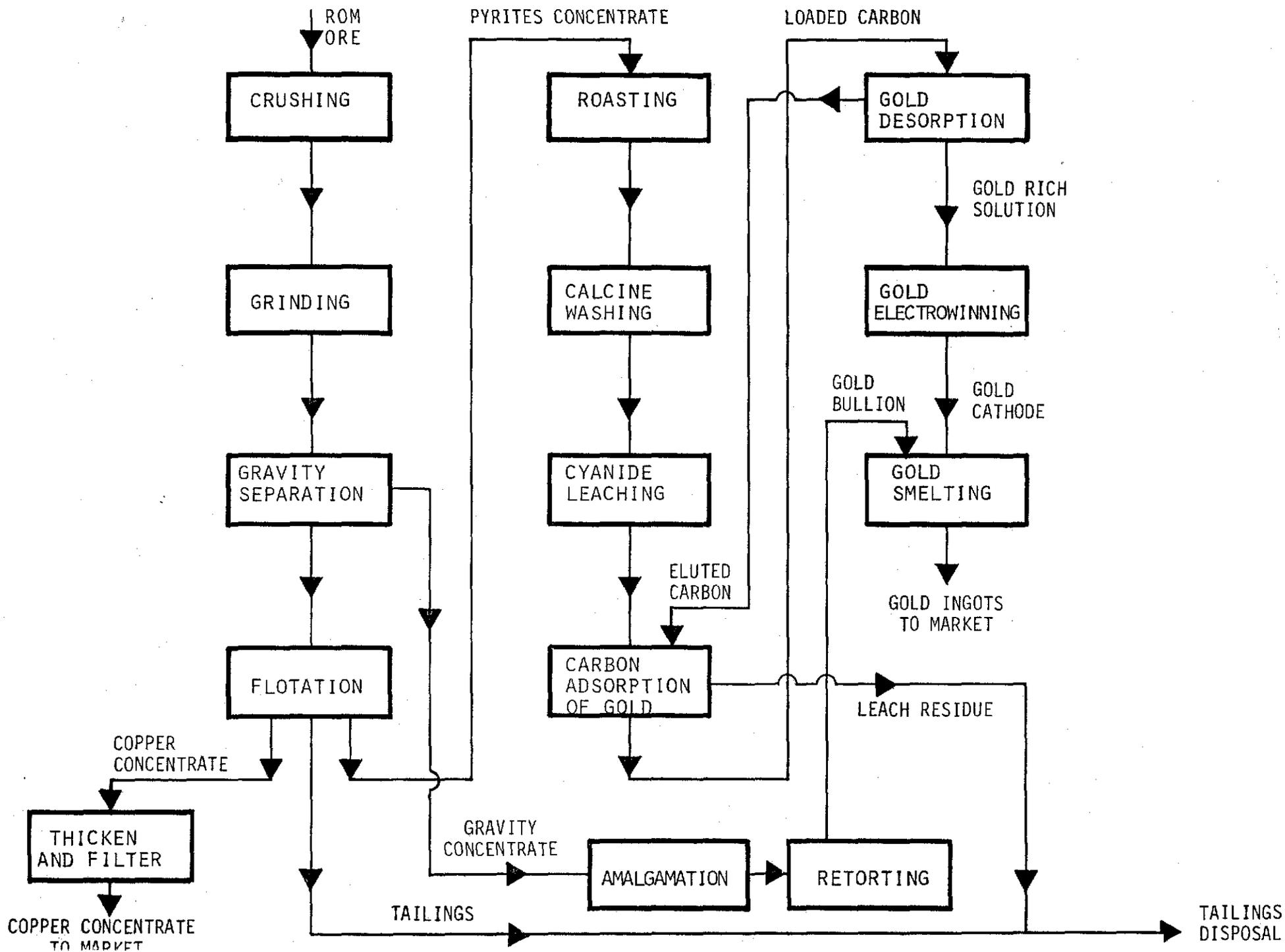


FIGURE 6.1

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- 6.2 -

It must be stressed that to date the only samples made available for metallurgical testing were two wedges from drillhole B11, designated B11A and B11C. These samples did not contain the levels of copper and gold used in the feasibility study, but as the test programme included an examination of core intervals with specific chemical and mineralogical characteristics, e.g., high gold/high sulphur, low gold/high non-sulphide iron, high copper, and low non-sulphide iron, it was possible to derive reasonable estimates of the response with the designated feedstock.

In line with the foregoing and the requirements of the current study, the following metallurgical recoveries have been adopted, the data covering both the cyanidation of "as produced" pyrites concentrate and roasted pyrites concentrate:-

	<u>"As produced"</u>			<u>Roasted</u>		
	<u>pyrites concentrate</u>			<u>pyrites concentrate</u>		
	<u>% Cu</u>	<u>% Au</u>	<u>% Ag</u>	<u>% Cu</u>	<u>% Au</u>	<u>% Ag</u>
	<u>rec.</u>	<u>rec.</u>	<u>rec.</u>	<u>rec.</u>	<u>rec.</u>	<u>rec.</u>
Gravity concentrate	-	20.0	20.0	-	20.0	20.0
Copper concentrate	85	15.0	40.0	85	15.0	40.0
Pyrites concentrate	-	30.0	17.5	-	55.8	19.2
Tailings	15	35.0	22.5	15	9.2	20.8

From the above tabulation it can be determined that the incremental gold recovery from roasting the pyrites concentrate is 25.8%, thus making the inclusion of a roasting operation mandatory.

7.0 ANCILLARY BUILDINGS/SERVICES7.1 Buildings

Buildings to be constructed or modified include mine office, change house, explosives magazines, workshop and store as well as security fencing.

7.2 Power

It is assumed that power will be provided from the Hydro Electric Commission of Tasmania grid. The power supply to Beaconsfield is already extended and at most only 3MW is relatively easily available. The 6MW required for the operating phase will be a major cost to the project as the construction of a major new feeder will be required.

Once significant dewatering commences, a 2MW standby generator will be installed on site to ensure continuity of pumping operations during any mains power outage. This generator should provide sufficient power to "hold" water levels during the production phase, if a power failure occurs.

8.0 OTHER INFRASTRUCTURE8.1 Land and Housing

The land requirement is an estimate based on current prices. This would include land for the production shaft, treatment plant, tailings and water dams, etc. The proposed land to be used lies between the south eastern town boundary and the old Beaconsfield ore treatment plant.

Housing is based on the requirement that only four senior staff houses will be necessary.

8.2 Water Control

The surface water control is to divert water away from potential points of ingress to mine workings. For example the "limestone pits".

The Blyth's Creek flume will be a "lining" of Blyth's Creek to prevent water escaping from the Creek into the ground as was shown to be the case during previous operations.

The mine water discharge ponds are to allow a residence time for mine water prior to discharge into the Tamar system. It is believed that no treatment or chemical additions will be necessary.

Sewerage treatment is included to allow for treatment of change house wastes.

9.0 CAPITAL COSTS

Capital cost quotations and calculations are included in Appendix B. Computer model listings are included as Appendices D and F for Cases 1 and 2 respectively.

Total capital costs by area are:-

	(\$000)
1. Mine Development	33,221
2. Mining Equipment	3,964
3. Ore Treatment Plan	6,630
4. Ancillary Buildings/Services	5,331
5. Other Infrastructure	1,060
 Total Direct Capital	 50,206
	<hr/>
Design and Project Management (15% on items 1, 3, 4 and 5)	6,921
Contingency (20% on item 1, 5% on item 2 and 15% on remainder)	8,803
 Total Capital	 65,930
	<hr/> <hr/>

9.1 Mine Development Capital

Mine development capital cost calculations are summarised in Table 9.1. On the advice of Hardcastle and Richards, their 1981 costs were increased by 10% and compared with quotations from Thyssen and Roberts to determine costs used in the study.

The figure of \$4,500,000 for Hart Shaft tender/mobilize and dewater/rehabilitate was a figure provided by Amax and was based on a quotation for the dewatering of the Big Bell Mine.

TABLE 9.1

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MINE DEVELOPMENT CAPITAL COSTS

ITEM	UNIT	QUANTITY	RATE \$	TOTAL (\$000)
Hart Shaft - Ongoing Maintenance	L.S.	-	70,000/yr	70
Surface Diamond Drilling (Case 1)	m	2,000	100	200
Surface Diamond Drilling (Case 2)	m	10,000	100	1,000
Hart Shaft Dewatering - Tender/Mobilise	L.S.	-	-	500
- Rehabilitate	L.S.	-	-	4,000
Headframe Winder (Amax + 10%)	L.S.	-	-	270
Pump Station 1,864 RL	EST.	-	-	150
" " 1,669 RL	EST.	-	-	150
Underground Development (Case 1)	m	400	2,000	800
Underground Drilling (Case 1)	m	5,000	100	500
Feasibility Study	EST.	-	-	150
<u>Production Shaft - Stage 1</u>				
Tender/Presink/Headframe	L.S.	-	-	1,750
Sink and Line	m	605	8,200	4,960
Plat Development	m	500	2,450	1,225
Excavate Loading Station	m ³	560	225	126
Excavate Pump Station (1,500mRL)	m ³	5,000	250	1,250
Equip Pump Station (1,500mRL)	EST.	-	-	250
Equip Shaft	m	625	1,880	1,175
Production Winder/House	L.S.	-	-	2,150
Ropes/Conveyances/Load Station	L.S.	-	-	510
Permanent Services	L.S.	-	-	125
Demobilize	L.S.	-	-	195
<u>Preproduction Development - Stage 1</u>				
Ore and Waste Passes	m	400	750	300
Horizontal Development	m	1,000	1,485	1,485
Ventilation Rise	m	150	950	143
<u>Production Shaft - Stage 2</u>				
Tender/Mobilize	L.S.	-	-	1,000
Sink and Line	m	265	8,200	2,173
Plat Development	m	800	2,150	1,960
Excavate Load Station	m ³	560	225	126
Excavate Pump Station (1,320 RL)	m ³	5,000	250	1,250
Equip Pump Station (1,320 RL)	EST.	-	-	250
Equip Shaft	L.S.	-	-	500
Ropes/Load Station	L.S.	-	-	250
Permanent Services	L.S.	-	-	55
Excavate Pump Station (1,185 RL)	m ³	5,000	250	1,250
Equip Pump Station (1,185 RL)	EST.	-	-	250
Demobilize	L.S.	-	-	195
<u>Preproduction Development - State 2</u>				
Ore and Waste Passes	m	600	750	450
Horizontal Development	m	500	1,485	743
Ventilation Rise	m	300	950	285

The costs for equipping pump stations are estimates only, and include dam wall construction, ground support and pump station piping, but exclude pumps, electrics and rising mains.

9.2 Mining Equipment Capital

Capital costs for equipment in this area were obtained by budget quotation from respective suppliers. These quotations plus calculations of equipment numbers required and replacements are included in Appendix B. Quotations for light vehicles, five and ten tonne trucks were obtained from previous R.G.C. studies.

The items listed in Table 9.3 can be regarded as initial mining equipment capital.

TABLE 9.3

INITIAL MINING EQUIPMENT CAPITAL

ITEM	UNIT COST (\$)	NUMBER	TOTAL COST (\$000)
Air Leg Rockdrill	2,500	30	75
Scraper	20,000	10	200
Rail Loaders	20,000	5	100
Development Loader	55,000	2	110
Battery Locos	45,000	5	225
Granby Trucks	4,000	25	100
Tipping Ramp	3,000	5	15
Miscellaneous Rail Equipment	2,000	25	50
Auxilliary Fans	1,000	12	12
Stope Winch (1t)	4,500	8	36
Service Winch (3t)	25,000	1	25
Diamond Drill	90,000	1	90
Miscellaneous Mining Equipment	L.S.	-	150
Light Vehicles	15,000	6	90
Truck (5t)	75,000	1	75
Truck (10t)	100,000	2	200
Front End Loader	140,000	1	140
Total			1,693

The bulk of the capital expenditure is in the first two production years. Equipment costs are low, about \$1.7 million, ignoring replacements, as the mine is not highly mechanised.

The costs may be reduced by the purchase of some second-hand equipment.

9.3 Ore Treatment Plant Capital

Capital costs in this area were provided by John Butler of R.G.C. These costs were derived from in-house data and budget estimates for major items such as the roasting plant.

	(\$000)
Crushing	650
Grinding	500
Gravity Plant	80
Flotation Plant	250
Roasting	2,200
Cyanidation and Gold Recovery	800
Tailings Dam and Sandfill Plant	1,000
Ancillary Pipe Work	150
Site Development/Buildings	1,000
	<hr/>
Total	6,630
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9.4 Ancillary Building/Services

9.4.1 Buildings

Buildings costs are estimates only. Total capital provided \$500,000.

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9.4.2 Power

Power costs for mains power supply were provided by the H.E.C. and are approximate estimates only:-

Preliminary	\$25,000
Permanent	\$500,000

The permanent supply will have a long lend time.

The standby generator was a budget price quotation - \$530,000.

Electrical reticulation costs were obtained from Merz, McLellan and Partners, electrical engineers who worked on the project previously. Some equipment has already been purchased by Amax and is assumed to be available at cost. Equipment ex Amax - \$234,000, say \$250,000.

Additional equipment to commence dewatering estimate (MM&L) \$180,000, say \$200,000.

This equipment is sufficient for the submersible pumps and the first pump station (1,864mRL). Each additional pump station requires a further expenditure on electrical equipment of \$113,000 plus cables, say \$160,000.

9.4.3 Dewatering Equipment

It has been assumed that the two Ritz 6,130 x 8 multistage pumps purchased by Amax will be used and obtained from Amax at their original purchase price of \$73,000 each. Total cost = \$146,000.

Three multistage Ingersoll Rand 6GT pumps will be installed at each pump station. Budget price including motor and starter is \$75,000 per pump set.

Two submersible Flygt pumps are included for the bottom of each shaft. Unit cost = \$20,000.

An allowance of \$20,000 per year is included for miscellaneous pump purchases.

The following costs have been assumed for rising mains:-

Ritz pumps	\$50,000
1,864mRL Station to Surface	\$25,000
1,669mRL Station to 1,864mRL Station	\$25,000
1,500mRL Station to 1,669mRL Station	\$75,000
Shaft Bottom Flygt Pumps	\$25,000
1,320mRL Station to 1,500mRL Station	\$25,000
1,185mRL Station to 1,320mRL Station	\$25,000

9.4.4 Air and Ventilation

Compressor budget price from Ingersoll Rand - \$241,000 say \$250,000,
Main ventilation fan plus spare, plus installation cost \$40,000 (see Appendix A.21)

9.4.5 Communications

Estimates only:-

Hart Shaft	\$15,000
Production Shaft - Stage 1	\$30,000
Production Shaft - Stage 2	\$30,000

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9.5 Other Infrastructure

All items are estimates only:-

- Land = \$200,000
- Housing = \$200,000
- Surface Water Control = \$ 50,000
- Blyths Creek Flume = \$ 50,000
- Mine Water Discharge Ponds = \$250,000
- Environmental Control = \$ 50,000 initially, \$10,000/yr
- Sewerage Treatment = \$ 50,000

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10.0 OPERATING COSTS

Operating cost quotations and calculations are included in Appendix C. Computer model listings are included as Appendices D and F for Cases 1 and 2 respectively.

Typical operating costs at full production (Year 5 figures) are:-

	<u>\$/tonne ore milled</u>
<u>Materials/Stores</u>	
Diamond Drilling	1.33
Mining - Stoping	12.93
- Dev. - Driving	6.21
- Dev. - Rising	0.96
- Services	1.00
Engineering - Mine	5.67
- Services	7.23
Power (excl. treatment plant)	17.95
Ore Treatment Plant	9.89
Administration	10.60
	<hr/>
Sub Total	73.77
<u>Labour</u>	
Administration	3.95
Mining	38.11
Engineering	8.40
Ore Treatment Plant	12.69
On-Costs	13.64
	<hr/>
Sub Total	76.79
 Total Operating Cost/tonne Milled	 \$150.56 <hr/> <hr/>

Mine operating costs per tonne are basically constant from Year 3 (first full production year) to Year 13. The only increases are due to additional pump power and maintenance costs as the mine is deepened and additional pumps become operational.

It is assumed that there will be no further development or diamond drilling in Years 14 and 15.

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10.1 Mine Operating Costs

10.1.1 Diamond Drilling

Assume one drill, manned by two men operating from Years 1 to 13 inclusive. Used for exploration, stope outline and water cover drilling.

Performance 4 metres per manshift.

Stores \$50 per metre.

\$1.33 per tonne

10.1.2 Stoping

Assume 15 tonnes per manshift.

Explosives - Assume two thirds gelignite, one third Anfo, as many faces can be expected to be wet.

\$2.20 per tonne

Ground Support - Ground conditions, particularly hanging wall appear relatively poor.

\$3.25 per tonne

Drill Steel - Used for blast holes and a significant amount of rock bolting.

\$4.00 per tonne

Fill Prep - Pass and manway extensions, pipes, etc.

\$0.90 per tonne

Miscellaneous Consumables - Scaling bars, blocks, ropes, hammers, tools, etc.

Plus 25% of above costs.

\$2.60 per tonne

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10.1.3 Development - Drive and Cross-Cut

Assume development performance 0.7 metres per manshift.

Explosives - Assume two thirds gelignite, one third Anfo as many development faces will be wet.

\$73.00 per metre

Ground Support - Assume 10 rockbolts per end. No timber has been included.

\$31.00 per metre

Drill Steel - For blastholes and rockbolting.

\$82.00 per metre

Services - Includes rail, sleepers, air and water pipes, ventilation bag.

\$80.00 per metre

Miscellaneous Consumables - Calculated at 25% of above items. Includes bars, slings, firing cable, launders, pipe hangers, hand tools, etc.

66.50 per metre

10.1.4 Development - Rising

Assume development performance 0.7 metres per manshift.

Explosives - Gelignite only used.

\$47.00 per metre

Ground Support - Four rockbolts per end.

\$11.00 per metre

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Drill Steel - For blastholes and rockbolts.

\$41.00 per metre

Services - Pipes, ladders, chains, pins, etc.

\$46.00 per metre

Miscellaneous Consumables - As for driving.

\$41.30 per metre

10.1.5 Mining Services

Assume \$1.00 per tonne for chute fronts, rail turnouts, safety equipment, etc.

10.2 Engineering

10.2.1 Mine Maintenance

Maintenance costs for mining equipment were derived from figures provided by John Laughler - Underground Maintenance Engineer at E.Z. Rosebery, Tasmania. The Rosebery Mine uses significant numbers of the equipment proposed in this study and should therefore be a reliable source of cost information. The costs for light vehicles, five and ten tonne trucks and front end loaders are drawn from other R.G.C. data.

Equipment maintenance costs are summarised in Table 10.1.

TABLE 10.1
MINE EQUIPMENT MAINTENANCE COSTS

ITEM	NUMBER OF UNITS	COST PER UNIT/YR (\$)	ANNUAL COST AT FULL PROD. (\$000)
Air Leg Rockdrill	30	4,500	135.0
Scraper	10	4,100	41.0
Rail Loaders	5	5,000	25.0
Dev. Loader	2	14,000	28.0
Battery Loco	5	15,000	75.0
Granby Trucks	25	500	12.5
Misc. Rail Equip	25	250	6.3
Auxilliary Fans	12	250	3.0
Stope Winch	8	550	4.4
Service Winch	1	3,125	3.1
Light Vehicles	6	5,000	30.0
Truck (5t)	1	9,000	9.0
Truck (10t)	2	17,500	35.0
Front End Loader	1	18,000	18.0

10.2.2 Services

Hoisting

Estimate \$60,000/yr - Hardcastle and Richards for ropes, liners, etc.

Pumps

Ingersoll Rand 6GT - Multi Stage Centrifugal

\$20,000/yr per pump installed.

Flygt - Shaft Bottom

\$10,000/yr per pump installed.

Miscellaneous Pumps

Estimate \$20,000/yr total.

Compressor

Estimate \$1,000/yr.

Standby Generator

Assume usage 1 hour per week.

\$12,000/yr

Main Ventilation Fans

Assume \$4,000/yr (10% of capital).

Buildings/Houses

Estimate \$50,000/yr.

Contract Maintenance

Estimate \$1.00 per tonne, that is \$75,000 per year.

10.3 Power

H.E.C. tariff 86 is applicable.

Supply charge per quarter \$153.00

Demand charge per quarter \$22.70 per kW

Energy rate 3.30¢ per unit (all units)

The mine dewatering system is the main consumer of power. As the mine is deepened, and additional pump stations are required, so the total power demand and consumption increases.

10.3.1 Power Demand

Power demand calculations are based on information drawn from the Merz, McLellan and Partners study produced for Amax. These sheets are included in

Appendix C for dewatering phase, exploratory phase, and operational phase. This information has been modified where necessary to be compatible with the development proposed in this study.

Peak demand is calculated by allowing for full pumping power and 80% diversity on remaining loads.

Table 10.2 indicates the technique used to calculate total pump demand.

Pumping contingency is 5% of connected load.

The demand calculations for other electrical equipment are based on installed kW as listed in Table 10.3 below.

TABLE 10.3
INSTALLED kW AT FULL PRODUCTION (EXCLUDING PUMPS)

Item	kW Installed
Production Winder	400
Hart Shaft Winder	165
Overhead Crane	30
Compressor	625
Ventillation	100
Surface Lighting	25
Welding	30
Underground Lighting	30
Scrapers	60
Diamond Drill	30
Transformer Losses	80
Contingency 10%	157

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10.3.2 Power Consumption

The hourly power consumption for pumps is included on Table 10.2. It is assumed that the pumps run at this rate 24 hours per day, 365 days per year. Pump consumption contingency is 5% of pump operating consumption.

Calculations for power consumption of equipment other than pumps is included in Appendix C. Contingency in this area is 10% of equipment consumption.

Annual consumption by equipment is listed in Table 10.4.

TABLE 10.4
ANNUAL POWER CONSUMPTION AT FULL PRODUCTION (excluding pumps)

Item	MWH Consumed
Production Winder	150
Hart Shaft Winder	50
Overhead Crane	5
Compressor	1,875
Ventillation	880
Surface Lighting	110
Welding	30
Underground Lighting	180
Scrapers	90
Diamond Drill	45
Transformer Losses	700
Contingency 10%	411

10.4 Ore Treatment Plant

Operating costs were provided by John Butler of R.G.C. These costs were estimated from up-to-date information obtained from recent R.G.C. gold studies.

The cost of consumables and rate of consumption are listed in Table 10.5. below.

TABLE 10.5

ORE TREATMENT PLANT MATERIALS CONSUMPTION AND COST

ITEM	RATE	COST
Grinding Media and Liners	1.5kg/tonne ore	\$1,200/tonne
Flotation Lime	1.0kg/tonne float feed	\$ 130/tonne
Flotation Collector	0.05kg/tonne float feed	\$2,500/tonne
Flotation Frother	0.05kg/tonne float feed	\$2,000/tonne
Cyanidation Lime	1.5kg/tonne calcine	\$ 130/tonne
Cyanide	8.5kg/tonne calcine	\$1,500/tonne
Water	1 cubic metre/tonne ore	-
Power	75kW hr/tonne ore	-
Maintenance Cost	-	\$2.00/tonne ore
Assaying	-	\$1.00/tonne ore
Miscellaneous	-	\$1.50/tonne ore

10.5 Labour Costs

Labour numbers were estimated from first principles and after discussions with Norman Mills and John Butler of R.G.C. Labour wage rates were agreed with Norman Mills.

Labour numbers, at full production, and wage rates are listed in Table 10.6.

Labour on-costs were determined in discussion with Norman Mills and after reference to other R.G.C. projects. On-costs are about 22% of direct labour costs. The attractive location of Beaconsfield means that infrastructure and recruiting costs should be low compared to other Tasmanian mining locations. Major cost items are; payroll tax, superannuation and workers compensation.

10.6 Administration Costs

These costs were determined using data from other R.G.C. projects. This cost appears high at \$10.60 per tonne, but as only 75,000 tonnes of ore per year are hoisted, the total annual cost is \$795,000. Costs include the following areas; audit and bank fees, cleaning, E.D.P., environmental, freight, insurance, leases, legal costs, maintenance, medical, postage, printing, stationery, rates and taxes, consultants, safety, security, authority fees, donations, sundry power and water, telephone and telex, temporary staff, travel and accommodation.

TABLE 10.6

LABOUR WAGE RATES AND NUMBERS AT FULL PRODUCTION

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Section and Classification	Rate/Yr (\$)	Number
<u>Administration</u>		
Mine Manager	75,000	1
Controller	44,000	1
Employee Relations Officer	31,000	1
Purchasing Officer	28,000	1
Paymaster	22,000	1
Storeman	24,000	1
Labourer	22,000	1
Clerks/Typist	17,000	3
Subtotal - Administration		10
<u>Mine</u>		
Mine Superintendent	55,000	1
Mine Planning Engineer	35,000	1
Mine Foreman	37,000	1
Mine Supervisors	30,000	3
Draftsman	25,000	1
Surveyor	26,000	1
Chainman	18,000	1
Geologist	35,000	1
Sampler	20,000	1
Diamond Drillers	28,000	2
Stope Miners	38,000	24
Fill Prep. Timbermen	30,000	4
Fill Operators	25,000	2
Development Miners	38,000	10
Truckers	25,000	8
Winder Drivers	28,000	5
Braceman/Cage/Skip Operators	25,000	3
Mining Services	25,000	11
Relief Operators (15%)	30,000	11
Subtotal - Mine		91
<u>Ore Treatment Plant</u>		
Plant Superintendent	50,000	1
Plant Metallurgist	35,000	1
Chemist	30,000	1
Foremen	30,000	4
Sample Prep/Assayers	25,000	5
Met. Clerk/Secretary	17,000	1
Operators/Labourers	25,000	19
Relief Operators (15%)	25,000	4
Subtotal - Plant		36
<u>Engineering/Services</u>		
Chief Engineer	55,000	1
Foremen	35,000	2
Tradesmen	25,000	8
Trades Assistants	23,000	3
Rock Drill Fitters	25,000	2
Pump Operators	23,000	5
Relief Tradesmen (15%)	25,000	3
Subtotal - Engineering		24
TOTAL OPERATION		161

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11.0 FINANCIAL EVALUATION

11.1 Financial Model

The financial model was written by Brian Smith of R.G.C. Outputs for Cases 1 and 2 are included in Appendices D and F respectively whilst Appendix E contains sensitivities for Case 1. Sensitivity studies were not carried out for Case 2 as the base result was so similar to the Case 1 base result.

11.2 Revenue Statement

Listed below are the real metal prices assumed for this study:-

Gold: A\$ 400/oz
 Silver: A\$ 10/oz
 Copper: A\$2,000/tonne

The following metal is contained in concentrate or bullion produced in each full production year.

	COPPER CONCENTRATE	BULLION	TOTAL
Gold (oz)	7,235	36,559	43,794
Silver (oz)	3,215	3,155	6,370
Copper (tonnes)	531	-	531

11.2.1 Refinery Losses - Copper Concentrate

Data obtained from Owen Murphy of Tennant Trading for this low grade copper, high grade gold and silver concentrate.

Refinery losses assumed:-

Copper - reduction in grade by 1%.

Gold - 4% of contained gold.

Silver - 10% of contained silver.

11.2.2 Refining Charges - Copper Concentrates

Data obtained from Tennant Trading.

Refining and transport charges assumed:-

Copper - A\$100.00 per tonne of concentrate for refining.

- A\$50.00 per tonne of concentrate for

transport.

Gold - 1% of contained gold.

Silver - 1% of contained silver.

11.2.3 Refining Charges - Bullion

As for Pine Creek evaluation.

11.3 Cash Flow Statement

11.3.1 Inflation

Assume 6% per year.

11.3.2 Government Royalty

Royalty formulae are included in Appendix C.

Royalty, during production years, is calculated as 3½% of gross revenue.

It may be possible to negotiate a reduced royalty with the Tasmanian Government.

11.3.3 Company Taxation

No company tax has been calculated or deducted in this study.

11.4 Financial Results

The financial results are summarised in Table 11.1.

TABLE 11.1

SUMMARY OF FINANCIAL RESULTS

STUDY	OP. COST (\$/oz Au)	TOTAL CAPITAL (\$x10 ⁶)	D.C.F. YIELD (% REAL)	N.P.V. @ 8% REAL (\$x10 ⁶)
<u>CASE 1</u>				
Base	261.13	65.9	1.0	(21.9)
Metal Prices + 25%	261.13	65.9	7.5	(2.0)
Metal Prices + 50%	261.13	65.9	12.2	18.2
Capital - 20%	261.13	52.7	3.0	(13.9)
Operating Cost - 20%	208.90	65.9	4.7	(11.3)
Metal Grades + 25%	208.90	65.9	7.4	(2.6)
Metal Prices + 25%)				
Capital - 20%)	208.90	52.7	12.8	17.1
Operating Cost - 20%)				
<u>CASE 2</u>				
Base	261.13	65.0	1.6	(20.4)

Under current assumptions, the project is uneconomic, and it can be seen that there is little financial advantage in Case 2 compared to Case 1.

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If an 8% real D.C.F. yield is required to develop the project then the following approximate variations would be required to the study parameters:-

- Metal Prices - increase of about 30%
- Capital Costs - decrease of about 50%
- Operating Costs - decrease of about 35%
- Metal Grades - increase of about 30%

Obviously a combination of lesser improvements in several of these areas would have an equivalent effect. However, apart from metal prices, it is extremely doubtful that these improvements could be achieved.

Other avenues with potential to improve the financial viability of the project are:-

- Reduction in the project development time
- An increase in the ore tonnage per vertical metre.

From information currently available, significant gains in either of these areas appears unlikely.

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DEVELOPMENT PERFORMANCE

Assume overall performance 0.7 metres per manshift.

Development miners 10
Annual work days 250

Therefore annual development
= 0.7 x 10 x 250
= 1,750 metres

Assume average heading size 2.1 x 2.4 metres

Tonnes development waste
= 1,750 x 2.1 x 2.4 x 2.6
= 22,932 tonnes

i.e. about 25,000 tonnes

Development required per year to maintain production:-

<u>Driving</u>	Footwall drive	: 400 metres
	Stope cross-cuts	5 x 30 = 150 metres
	Subtotal	500 metres
	plus 10%	55
	Subtotal	605 metres
	Main cross-cut	300
	Total	<u>905 metres</u>
<u>Rising</u>	Stope rises	5 x 50 metres = 250
	Misc. rises	100
	Total	<u>350 metres</u>

Total Development = 1,255 metres

This is approximately 50% below total planned development.

This allows development to be in advance of production to allow for shaft extension etc., as well as miscellaneous work not currently planned.

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STOPPING PERFORMANCE

1. STOPE PRODUCTION

Typical stope advance

Width 2.5 metre

Height 2.5 metre

Length 1.8 metre

Volume = 11.25 m³

S.G. = 2.6

Tonnage = 29 tonnes

Assume one end per shift per working stope.

Two men per stope

Tonnes per manshift = $\frac{29}{2}$
= 14.5 tonnes

Tonnes per stope per day (2 shifts)

= 29 x 2
= 58 tonnes

Ore tonnes required per day = 300

Operating stopes required

= $\frac{300}{58}$
= 5.2

Say 6 to allow for missed ends, etc.

Due to fill prep assume a stope utilization of 70%

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- A.3 -

Therefore developed stopes required

$$\begin{aligned} &= \frac{6}{0.7} \\ &= 8.6 \end{aligned}$$

Say 9 stopes.

Stope Labour

6 stopes x 4 men per stope

$$= 24 \text{ stope miners}$$

Fill Prep

2 stopes x 2 men per stope

$$= 4 \text{ sandfill timbermen}$$

Fill Placement

1 stope x 1 man

$$= 1 \text{ fill operator}$$

MINE DEWATERING

The documentation of techniques to be used, and volumes of water to be removed, are not well documented in the Amax study.

1. The Allstate 1975 report is not clear on the calculations (Chapter 7 pages 6 and 7), however, the following summarises my interpretation of this section.

1.1 Mine Make 2×10^6 gallons/day
Average pumping rate required
105 l/s (1,390 gpm)

1.2 Dewatering Voids plus Groundwater

(a) Total pumping - First 19 weeks

19 weeks at 6 million gallons per day
= 800 million gallons

Effective dewatering

= 800 - 19 weeks at 2 million gallons/day
= 534 million gallons

(b) Total pumping - Next two years

104 weeks at 3 million gallons per day
= 2,184 million gallons

Effective dewatering

= 2,184 - 104 weeks at 2 million gallons/day
= 728 million gallons

1.3 Total dewatering to "steady - state" over 2 years
and 19 weeks

= 534 + 728
= 1,262 million gallons

Note the actual calculation for the 1,320 million gallons is unclear.

2. The Hardcastle and Richards report "Conceptual Study for Dewatering and Shaft Access, 26.2.1980" includes the following calculations:-

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2.1 Mine Make

Using the Australian Groundwater Consultants figure

8.4 Ml/day

Average pumping 97 l/sec. (1,280 gpm)

2.2 Water in Voids

Total water in mined voids 700×10^6 litres, assuming no fill.

To remove this in twelve months, the pumping rate required is 22 l/sec (290 gpm)

2.3 Ground Water

A.G.C. estimated 10,000 to 11,000 Ml would have to be drained off.

Allstate suggest 6,000 Ml (1,320 million gallons - see above). This includes water in voids.

The Allstate figure of 6,000 Ml was selected.

I believe this figure should be 5,750 Ml less voids (2.2 above).

$$= 5,750 - 700$$

$$= 5,050 \text{ Ml}$$

To remove this volume in 12 months, pumping rate required is:

$$= 5,050 \times 10^6$$

$$\frac{365 \times 24 \times 60 \times 60}{}$$

$$= \underline{160 \text{ l/sec}}$$

Note: This compares with the H & R calculation 6,000 Ml in 12 months equalling 130 l/s which is obviously an error.

7. MINE DEWATERING; WATER CONTROL.

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7.1 Indications of Previous Rates of Flow.

By reference to Section 4.2 above, it will be seen that for the eight years prior to the closing of the mine, water inflow was at a rate of 3 million gallons per day for the majority of this period, reducing over the last few years to about 2 million gallons per day.

Inflow surges as water bearing strata were cut during mine development were a major problem for mine management, and between 1903 and 1914 the maximum pumping capacity of the mine was increased from 3 million gallons per day to approximately 6½ million gallons per day. This higher capacity was apparently adequate to deal with surges of water inflow at the time.

7.2 Surface Water Control.

The Tasmania Gold Mining Company recognised Blyth Creek as the major source of water flow into the Tasmania goldmine. The creek is thought to be a feeder to the limestone quarries which in turn are connected through waterbearing strata to fissures in the mine walls.

The previous operators diverted and flumed Blyth Creek with round timber poles, a little of which is still evident today. A more sophisticated approach is contemplated along the following lines:

1. A permanent diversion of Blyth Creek by way of an open channel which will be constructed of earthen banks and sealed with an impermeable base, to cut off the wide sweep of Blyth Creek around the limestone quarry area.
2. On the advice of the Water Conservation and Irrigation Commission, the most effective way to seal the diversion of Blyth Creek would be, after the forming up of the new creek course, to lay a bed of clay to a depth of one foot. This clay would be mixed with Bentonite, puddled to an optimum moisture content and compacted and shaped on the two sides, and the base of the creek diversion. This would provide the most effective impermeable seal to obviate water seepage through

limestone beds and is the procedure that would be adopted by the W.C. & I.C. in these circumstances.

It is also possible that, in the event of the ore processing works being located near to Blyth Creek and the limestone quarries (one of two alternative locations being considered), the old quarries could be used for fine tailings dumps and the tailing material could contribute to the sealing of underground watercourses.

The use of dyes is planned as a means of positively confirming the main source of inflow to the mine, and this can be done when dewatering of Harts shaft has progressed some way.

7.3 Estimated Pumping Requirements for Mine Operation.

The historical record of pumping requirements, which diminished with the increasing depth of the mine, would indicate a static requirement at 1500 ft. depth of workings, of approximately 2 million gallons per day to handle the natural inflow into the mine. However provision must be made in the new installations for a capacity sufficient to stand surges of water as water-bearing strata are intersected by developmental headings; also for capacity in the early years to cope with extra flow related to lowering of the watertable in the surrounding countryside.

For these reasons, planned pump capacity is 6 million gallons per day. This will give approximately 4 million gallons per day of surplus capacity over and above the natural inflow into the mine. Such surplus capacity will be fully used initially to dewater the old workings, and will also be used to some extent in the early period after initial dewatering, to handle the extra water inflow related to lowering of watertable. However it is expected that after a period the hydraulic gradient in the surrounding country will be lowered to a point where the rate of inflow into the mine proper will follow the pattern of previous pumping experience.

Following completion of initial mine dewatering, estimates in this Report allow for the removal of 3 million gallons per day for a period of two years, reducing to 2 million gallons per day thereafter.

The final pump installation in the dewatered mine will use 3,300 Volt power and will comprise:

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- (a) three submersible pumps (450 H.P. motors) with a combined 670 ft. lift capacity of six million gallons per day, to lift water from the shaft sump to the 1500 ft. Level and to cope with any water surges which may flood the lower workings. These may be supplemented by centrifugal pumps on the 1650 ft. and 1800 ft. Levels to deal with any continuing flow from these Levels.
 - (b) Three centrifugal pumps (360 H.P. motors) with a combined 500 ft. lift capacity of six million gallons per day, to lift water from a reservoir at 1500 ft. to a reservoir at the 1000 ft. Level.
 - (c) Two centrifugal pumps (500 H.P. motors) with a combined 400 ft lift capacity of six million gallons per day, to lift water from the 1000 ft. reservoir to a reservoir at the 635 ft. Level.
 - (d) Three centrifugal pumps (440 H.P. motors) with a combined 650 ft. lift capacity of six million gallons per day, to lift water from the 635 ft. reservoir to drainage channels at the surface.

This pumping set-up will cope flexibly with initial dewatering, normal inflow, surge inflow, and the unlikely event of flooding of the mine to any depth.

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7.4 Initial Dewatering-Procedure and Timing.

(a) General Approach (Base Case).

It is proposed to dewater the mine workings from Harts shaft.

Harts shaft has been chosen as the entry point into the mine because it was the only fully serviceable shaft at the time of mine closure, and the recorded data show the shaft to be in solid ground (exclusive of some detrital material around the collar) right through its full depth. Refer to Figure 7.2 where this feature is shown as part of a geological interpretation of the Deep Lead channel, prepared by Tricentrol in 1974.

The main alternative would have been Grubb shaft which was sunk in the Deep Lead formation. The upper 500 ft. of this shaft had closed in at the date of mine closure to the extent that this part of the shaft was accessible for rope haulage only, not for haulage of men, materials or ore.

Power supply for dewatering will be provided by a diesel generating station of approximately 3000 Kw capacity (refer Section 11.2, items 15 and 16).

A requirement preliminary to the commencement of dewatering is the repair of the collar of Harts shaft, where there has been a collapse of some abutments and foundations of the old shaft collar, and some undermining of the Harts shaft Winder House.

The surface structures remaining at Beaconsfield from previous mining operations include the exterior walls of the Harts shaft winder house, the boiler house, and the Grubb shaft winder house. They have historical significance in the local context. It will therefore be necessary to underpin the walls of Harts shaft winder house at an early stage of repairing the shaft collar.

Repair of the shaft collar, which will include inter alia the removal of the slabs of unreinforced concrete from near the mouth of the shaft and the removal of broken timbers at the mouth of the shaft, will permit the selection of one of the

three shaft compartments for the lowering of pumps and effecting of dewatering and lower shaft repairs.

The operation of restoring the shaft collar has been studied by Pearson Bridge Pty. Ltd., which has provided the cost estimate for this item. (Subsequent auger drilling in the shaft area indicates that collar restoration may be simpler and cheaper than forecast by Pearson Bridge).

The attached Figure 7.1 gives a schematic diagram of connections between the three major shafts used for previous mining operations i.e. Main shaft, Harts shaft and Grubb shaft.

The first stage of dewatering would be to the 635 ft. horizon, in Harts shaft. From this horizon there are interconnections to Main shaft, via a Riedler Pump Chamber, and a winze connection between Harts and Main shafts. Therefore at the 635 ft. horizon it should be possible to determine that all upper workings i.e. above 600 ft. R.L. have been drained by the dewatering from Harts shaft.

The 600 ft., 715 ft., 815 ft. and 915 ft. Levels were developed from Main shaft. Thus, once command has been obtained of Main shaft, inspections should be possible from underground of the effective dewatering, by the pumping from Harts shaft, of the 715 ft., 815 ft. and 915 ft. Levels. This is dependent on the extent to which the recorded blockage of Main shaft as an airway at the 1000 ft. Level, caused by a fall of timber from the 200 ft. Level, extends up the shaft.

The old mine plans show dams at each of the main crosscuts from the various shafts to assist in controlling the rate of water inflow to the pumps. The physical construction of these dams is not known, but it is likely that heavy timber boards across the narrowed openings would have been used. If it is found that these dams are holding back water as dewatering proceeds, they can be demolished by an explosive charge as they are progressively exposed by the lowering of the water level in the shaft.

From the 1000 ft. Level Harts shaft was used to develop the mine down to the 1370 ft. Level. Hence on each level there is connection to mine workings and there exist crosscut entries to the orebody up to 300 ft. in length.

These crosscuts are in Hanging Wall (in quartz-sandstone beds), and apart from providing inspection points, the crosscuts can be used for temporary storage dams, and if desirable for positioning extra pumps to supplement the shaft pumps.

From 1370 ft. to 1500 ft. there is a winze connection below Harts Shaft of 8 ft. x 4 ft. dimension. There are also crosscut connections between Harts and Grubb shafts at the 1000 ft. and 1370 ft. Levels.

It is intended that dewatering from the 1000 ft. to the 1370 ft. Level will be undertaken using the submersible pumps in Harts shaft, and that the submersible pumps will probably be transferred to Grubb shaft for the final stage of dewatering below 1370 ft. Level.

The time taken to dewater the old mine workings down to the 1500 ft. Level cannot be calculated with certainty, being a function of rate of water inflow, pump capacities used, and the extent to which temporary repair work is necessary to the timbers of the shaft.

A period of 9 weeks has been allowed for the dewatering operation to the 1370 ft. Level, and the 50% contingency allowed on this item in the cost estimates in effect provides for an additional 4 weeks, as costs are related primarily to timing. A further 6 weeks (including contingency) is allowed for dewatering from 1370 ft. to 1500 ft. Level. These periods exclude intervening holding periods used for stage-pump installations on the exposed Levels.

Given a rate of dewatering of 6 million gallons per day the 13 weeks of dewatering represents about 800 million gallons pumped out. If one assumes that a "normal inflow" of 2 million gallons per day will recommence during draw-down, then the 13 weeks represents at least 500 million gallons of effective dewatering during the 13 week period.

It is also assumed that pumping will be at a rate of 3 million gallons per day for two years after dewatering of the 1500 ft. Level is achieved, representing a further effective dewatering of the countryside of 1 million gallons per day or 720 million gallons over 2 years.

At the end of this two years it is assumed that pumping will diminish to the "normal" level of 2 million gallons per day. The estimated 1320 million gallons of effective dewatering of mine workings and surrounding countryside meets the estimate for this item of several experienced mining men.

Some detail of the planned dewatering operation is given in the following text.

(b) Dewatering Procedure in Detail (Base Case).

Surface installations for the shaft repairs and for mine dewatering are as follows:

- a. Surface double drum winch, capable of lowering a sinking stage down to 1500 feet.
- b. A temporary headframe over the shaft collar to enable lowering and raising of the stage, and with an independent sheave for a lightframe man cage, to lower men to the sinking stage.
- c. A fast winding winch for the man cage installation.

The three submersible pumps will initially be used to progressively lower the water level in Harts shaft. (Later they form part of the permanent pump installation.) The submersibles are suspended on their own columns, and it is intended to use a sinking platform working above the level of the pumps for temporary repair of shaft timbers and installation of services, as described below.

Dewatering of the mine will be done in stages at approximately 500 - 600 feet intervals, and use should be made of the Riedler pump chamber at 635 ft. as the first stage base. There will be four stages of dewatering i.e. to horizons of R.L. minus 635 ft., R.L. minus 1000 ft., R.L. minus 1370 ft., and R.L. minus 1500 feet. These stage intervals are governed partly by practical considerations to maximise control of water inflow surges during mine operation, and partly by the availability of underground sites for locating water dams for temporary storage, and the intention to undertake confirmatory drilling from the 1370 ft. Level.

07A

2. RATE OF DEWATERING

Following an examination of the records and recommendations in the Allstate 1975 Report and the Australian Groundwater Consultants Draft Report No. 572, the following conclusions were submitted to Amax for further discussion with AGC.

i) Mine make

Allstate Report	8 - 10	Ml/day
AGC Report	8.4	Ml/day

Hence average pumping rate to cope with mine make after dewatering is 97 l/s (1280 gpm)

ii) Water in voids

Ore removed	1.0 million tonnes
Waste	0.5 million tonnes (assumed)
<u>Total</u>	<u>1.5 million tonnes</u>

Assume in situ density 2 t/m³.

Hence open volume = 0.7 x 10⁶ m³ (assuming no fill)

It is necessary to allow a reasonable time for perched water to percolate through in subsided areas and also a suitable period to study the effects of surface subsidence and water table lowering as the water is pumped out. (On this basis a minimum time of twelve months is considered practical for dewatering.)

Hence average removal rate for water in voids is 22 l/s

iii) Ground water

AGC estimated that the water in the ground that will be drained is in the order of 10,000 - 11,000 Ml.

The rate at which water will be drained is dependent on the ground transmissivity and the area of old mine openings.

Allstate believe 6,000 Ml (1320 million gals) will have to be drained off.

The AGC figure appears high. Allstate took into consideration the old records including maximum installed pumping capacity and also rate at which the water rose when the mine was partially flooded.

Assuming 6000 Ml is drained in 12 months, the rate of pumping required to remove this is 130 l/s.

Hence pumping rate to remove water in 12 months:

From mine make	97 l/s
From water in voids	22 l/s
From groundwater	<u>130 l/s</u>
<u>Total</u>	<u>249 l/s (2500 gpm)</u>

The water would be removed at an average rate of 21.5 Ml/day (4.7 million gal/day).

DEWATERING CALCULATIONS

1. PUMPING RATES

(a) Dewatering Phase

Assume the following:-

	<u>l/s</u>	<u>gpm</u>
Mine Make	100	1,320
Water in Voids	22	290
Ground Water	160	2,110
	<hr/>	<hr/>
Total	282	3,720
	<hr/> <hr/>	<hr/> <hr/>

(b) Operating Phase

Allstate assume 2.0×10^6 gallons per day during operations.

The following assumptions will be used for this study:-

Mine Make - 100 l/s (as above)

Water in voids - not applicable

Ground water

In dewatering phase

5,050 Ml for 450 metres depth

= 11.2 Ml per metre

Mine vertical advance per year

= Annual in-situ tonnes mined

Tonnes per vertical metre

= 62,500

2,500

= 25 metres

Ground water to remove per year:-

= 25 x 11.2

= 280 Ml

= 9 l/s

say 10 l/s

Can be expected to fluctuate greatly.

Mine operations water

- Drilling
- Hydraulic fill
- Dust supression, etc.

At E.Z. Rosebery

Total water 1.0×10^6 gallons per day

Comprising about one third each

- Mine make
- Drilling, etc.
- Hydraulic fill

Daily production 2,400 tonnes

Water per tonne (drilling and fill)

667,000

2,400

278 gallons/tonne/day

At Beaconsfield producing 300 t.p.d.

Mine operations water = $300 \times 278 \times 4.55$

24 x 60 x 60

= 5 l/s

- A.16 -

Summary operating phase:-

	<u>l/s</u>	<u>gpm</u>
Mine Make	100	1,320
Ground Water	10	132
Mine Operations	5	66
	<hr/>	<hr/>
Total	115	1,518
	<hr/>	<hr/>

However, the historical pumping rate during the production year 1892 to 1912 was about 2,300 gpm (see graph).

It would seem imprudent to calculate pump costs for a rate lower than this average.

Pumping rate required:-

175 l/s (2,300 gpm)

It would appear that the rate of 110 l/s would be appropriate after dewatering during underground exploration from the Hart Shaft. Once fresh vertical development and stoping commences, the rate should be increased to 175 l/s.

COMPRESSED AIR SUPPLY

1. By First Principles

Possible Operating Rockdrills

Stope Miners	12
Development Miners	6
Miscellaneous	2
	—
	20
	—

Consumption 100 l/sec per machine

Air for rockdrills 100 x 20
= 2,000 l/sec

Allowance for leaks and minor equip 15%
= 2,300 l/sec
= 4,873 cfm
say 5,000 cfm

2. From Peele

Consumption for 20 rockdrills at sea level

Factor = 11.7
Panther consumption = 204 cfm per drill
For 20 Drills = 204 x 11.7
= 2,398 cfm
plus 10% = 2,638
say = 2,750 cfm

3. Comparisons

	<u>Rosebery</u>	<u>Hercules</u>	<u>Nth Kalgurlie</u>
Annual Tonnes	600,000	50,000	125,000
Tonnes/Day	2,400	200	500
Tonnes/Shift	800	100	250
Installed Comp. Capacity (cfm)	16,000	2,400	8,000
Cfm/tonne/shift	20	24	32

Comments: Rosebery includes longhole drilling and compressed air loaders. System heavily taxed in mid-morning.
Hercules distribution system poor with leaks. Additional capacity required with introduction of longhole stoping.
Nth. Kalgurlie sufficient capacity.

Beaconsfield suggest capacity 25 cfm per tonne per shift.

Installed capacity = 150 x 25
= 3,750 cfm
say 4,000 cfm

081

MINE VENTILATION

1. Comparison on a Tonnage Basis

E.Z. Rosebery

Production 600,000 t.p.a.
 2,400 t.p.day
 800 t.p.shift (3 shifts)

Exhaust fan capacity 150 m³/sec

Production/unit capacity

$$= \frac{800}{150}$$

$$= \underline{5.33}$$

For Beaconsfield

Production 75,000 t.p.a.
 300 t.p.d.
 150 t.p.s.

$$\begin{aligned} \text{Capacity Required} &= \frac{150}{5.33} \\ &= 28 \text{ m}^3/\text{sec} \end{aligned}$$

In 5 metre diameter shaft

$$\begin{aligned} \text{Cross section area} &= \text{Pi} \times \frac{5^2}{4} \\ &= 19.63 \text{ m}^2 \end{aligned}$$

$$\begin{aligned} \text{Velocity} &= \frac{28 \text{ m}^3/\text{sec}}{19.63 \text{ m}^2} \\ &= 1.43 \text{ m/sec} \\ &= 281 \text{ ft/min} \end{aligned}$$

2. Quantity per Man Underground

Peele suggests 50 to 1,000 c.f.m. per man on largest underground shift employed.

082

E.Z. Rosebery

Day shift 250 men
Vent capacity 150 m³/sec
= (320,000 cfm)

Capacity per man = 1,280 cfm

For Beaconsfield

Day shift 60 men say
At 1,280 cfm per man
Capacity required = 76,800 cfm
= 36 m³/sec

At 1,000 cfm per man
Capacity required = 60,000 cfm
= 28 m³/sec

3. Main Fan Specification

E.Z. Rosebery - 7 off

1.2 metre Diameter
Axial flow
75 kW
Maximum duty 28 m³/sec at 1.5 kpa.

For Beaconsfield

1 fan similar to above plus 1 for spare.

Fan Cost - D. Richardson & Sons

Vent Installation Cost

Fans (2)	25,000
Freight	1,000
Power Foundations, etc.	<u>14,000</u> say
	<u>\$40,000</u>

084

BEACONSFIELD

29 January 1985

1. Ongoing Costs - L. Newnham

\$70,000 per year

Power \$30,000

Wages \$30,000

Maintenance \$10,000

2. Additional Surface Drilling Required

2,000 metres at \$100 per metre

\$200,000

Time for drilling - 9 months

3. Water Quality

Mine water quired settling dams.

High Fe and As in mine water.

Precipitates rapidly on exposure to air

- discharge quality good.

MEMORANDUM

196084

085

To L.A. Newnham
From P.A. Roberts
Subject Beaconsfield Drilling Proposal
Date 26th February, 1985

1. Objective:

To establish an ore potential estimate for the Tasmania Reef between 1600 and 1300m R.L. with sufficient confidence to justify developing a new mine at Beaconsfield.

2. Work Proposal:

To obtain 11 more major intersections of the Reef between 1600 and 1300m R.L. so that the Reef is covered by intersections spaced approximately 100m apart over that depth interval.

Two uncontrolled wedges should be obtained in the vicinity of each major intersection.

If possible, all Reef intersections should be NQ-sized core.

Approximately 8300m of drilling is required to carry out this program, which should be completed in two stages with a decision point in between, viz:

Stage 1 - Four holes, B18 to B21 inclusive, totalling 3000m (maximum). B18 and B19 should test the western limits of the Reef between 1500 and 1600m R.L. B20 and B21 should test the eastern limits of the Reef between 1450 and 1600m R.L. Time: 4 to 5 months, using two diamond drill rigs.

Decision point 1: Whether or not to proceed with the rest of the drilling program.

Stage 2 - Seven holes, B22 to B28, totalling 5300m (maximum), to complete proposed drill coverage of Reef. Time: 7 months, using two diamond drill rigs.

Decision point 2: Whether or not to proceed with mine and mill development.

086

3. Budgets:

	<u>\$Stage 1</u>	<u>\$Stage 2</u>	<u>\$TOTAL</u>
<u>1. GEOLOGY</u>			
- Salaries + on costs	22,500	31,500	54,000
- Miscellaneous charges-stores, transport, sample freight etc.	3,000	4,000	7,000
- Travel and Accomodation	1,000	1,500	2,500
- Outside Contractors-petrology, metallurgy	2,000	8,000	10,000
	<u>28,500</u>	<u>45,000</u>	<u>73,500</u>
<u>2. DRILLING</u>			
- Outside Contractors (direct charges \$90/m)	270,000	477,000	747,000
- Analysis	10,000	15,000	25,000
- Stores	10,000	15,000	25,000
	<u>290,000</u>	<u>507,000</u>	<u>797,000</u>
<u>3. LAND ACQUISITION</u>			
- Miscellaneous	<u>-</u>	<u>3,700</u>	<u>3,700</u>
<u>4. SITE PREPARATION/REHABILITATION</u>			
- Outside Contractors	<u>4,000</u>	<u>6,000</u>	<u>10,000</u>
<u>5. TUNNELLING/JOINT VENTURE COSTS</u>	<u>33,000</u>	<u>47,000</u>	<u>80,000</u>
<u>6. MOTOR VEHICLE EXPENSES</u>	<u>1,200</u>	<u>1,800</u>	<u>3,000</u>
TOTALS	<u>356,700</u>	<u>610,500</u>	<u>967,200</u>

Paul Roberts.

P.A. Roberts

NOTES ON BEACONSFIELD

22nd January, 1985.

Barrie Blanchard - Austamax

1. GEOLOGY

Salaries & on costs

2,500

1. Beaconsfield Shaft Blockage

Travel and Accommodation

Hart Shaft

55 to 91 metres rubble

Last 12 to 15 metres through timber

Camera indicates shaft in good

condition below 91 metres.

Cost of $\$4.5 \times 10^6$ to clear

and dewater shaft and mine is

"reasonable to high".

087

SHAFT SINKING AND UNDERGROUND DEVELOPMENT

UNIT COST COMPARISON

ITEM	UNIT	H+R plus 10% (\$)	THYSSEN (\$)	ROBERTS (\$)	BEACONSFIELD STUDY (\$)
1. Site Establishment Collar + Presink (20m)	L.S.	1,441,000	1,675,560	2,037,000	1,750,000
2. Sink + Line (incl. temporary support)	m	10,505	7,722	6,300	8,200
3. Plat Development Breakoff/ Concrete	L.S.	30,000	-	60,000	30,000
4. Plat Development (incl. temporary support)	m	2,850	1,763	1,800	2,150
5. Load Station Excavation	m ³	-	220	225	225
6. Equipping (including steel)	m	1,280	1,650	2,700	1,880
7. Permanent Services	L.S.	138,000	138,000	100,000	125,000
8. Demobilise	L.S.	80,000	250,000	250,000	195,000
9. Production Winder/ Winder House	L.S.	2,145,000	-	-	2,150,000
10. Equipment Load Station	L.S.	-	200,000	-	200,000
11. Ropes, Conveyances, Load Station, etc.	L.S.	506,000	-	-	510,000
12. Horizontal Development	m	-	1,764	1,200	1,485
13. Raisboring 1.2m	m	-	1,000	500	750
1.6m	m	-	1,200	-)
1.8m	m	-	-	700	) 950
14. Pump Station Excavation	m ³	-	293	200	250
15. Water Control	L.S.	-	-	1,000,000	

SHAFT SINKING AND UNDERGROUND DEVELOPMENT

COMPARISON OF QUOTATIONS

Specifications

- Shaft - Circular 5m diameter, concrete lined
 - Depth 625m including 20m presink
- Plats - Five plats, 100m each
- Load Station - One off at 560m³
- Pump Station - One off at 5,000m³
- Shaft fully equipped with winder, conveyences, guides, ropes, services, etc.
- Ore and Waste Passes - 400 metres at 1.2m diameter
- Horizontal Development - 1,000 metres at 2.1m x 2.4m
- Ventilation Rise - 150 metres at 1.8m diameter

ITEM	UNIT	QUANTITY	H+R plus 10% (\$000)	THYSSEN (\$000)	ROBERTS (\$000)
1. Site Establishment Collar + Presink (20m)	L.S.	-	1,441	1,678	2,037
2. Sink + Line (incl. temp support)	m	605	6,356	4,672	3,812
3. Plat - Breakoff	L.S.	5	150	-	300
4. Plat - Development	m	500	1,425	882	900
5. Load Station	m ³	560	315 *	123	126
6. Equipping	m	625	800	1,031	1,688
7. Permanent Services	L.S.	-	138	138	100
8. Demobilise	L.S.	-	80	250	250
Sub Total			10,705	8,774	9,213
9. Production Winder/ Winder House	L.S.		2,145	-	-
10. Ropes, conveyances, load station, etc.	L.S.		506	-	-
Sub Total			2,651		
11. Horizontal development	m	1,000	-	1,764	1,200
12. Ore & water passes	m	400	-	400	200
13. Ventilation rise	m	150	-	180	105
14. Pump station	m ³	5,000	-	1,465	1,000
Sub Total				3,809	2,505
* Equivalent to one plat (estimate).					

SHAFT COSTS - HARDCASTLE AND RICHARDS

6th February, 1985

George Deutsch (03) 347 1311

Comments on "Beaconsfield Mine - Order of Magnitude Study, July 1981".

1. Shaft sinking timing still appropriate.
2. Costs have not risen greatly, say plus 10%.
3. Costs are "order of magnitude"
 - no engineering
 - no contingency
4. Winder proposed in study
 - 400 kW friction type
 - more power if double drum
 - Conveyences - skip/cage and counterweight
5. Power consumption 1 to 2 kW hr/tonne
 - very approximate, would include servicing
6. Operating costs for materials - ropes, liners, etc.
 - \$50,000 to \$60,000 per year.
7. Sink on possible if planned for.
8. Concerns - Subsidence around shaft and town as water is drawn down.
 - Water during sinking. Chances of problems increase with depth.

FROM H & R REPORT - "ORDER OF MAGNITUDE STUDY", JULY 1981

TABLE 5 - COST ESTIMATE 5M DIAMETER SHAFT TO 640M

ITEM	UNIT	RATE \$	QUAN	TOTAL \$'000
A. Site establishment and collar construction	L.S.			480
B. Install equip and commission for sinking	L.S.			830
C. Sink and line	m	6,960	620	4,315
D. Plat development	m	2,355	650	1,531
E. Temporary support, cover drilling	L.S.			877
F. Plat concrete lining	each	30,000	7	210
G. Equip shaft including shaft steel	m	1,164	640	750
H. De-mobilise	L.S.			80
J. New production winder & winder house	L.S.			1,950
K. Ropes, Conveyances, Loading Station, convert headframe for production	L.S.			460
L. Permanent Services (Supply)	L.S.			125
TOTAL				\$11,608
Estimated - Say \$11,600,000				

092

093

SHAFT SINKING - THYSSEN MINING CONSTRUCTION

January 1985

FOR BEACONSFIELD - Lars Larsen 922 1955

Assumptions:

1. Power available on site
2. Water available on site
3. Camp accomodation and messing included in price
4. Hart Shaft dewatering not included
5. Topsoil depth 3 metres
6. Spoil disposal distance 200-300 metres
7. Reasonable ground
8. Permanent headframe and winders not included
9. No permanent pumps, electrics, etc.
10. No underground crusher excavation
11. No allowance for major water - up to 50 gpm acceptable.

Tabulated below is cost and timing data for the proposed shaft.

Shaft 5 metre internal diameter, concrete lined.

094

196093

- 5.11 -

THYSSEN

ITEM	UNIT	RATE (\$)	QUANTITY	TOTAL (\$000)	TIME (MONTHS)
<u>Stage 1</u>					
1. Establishment	L.S.	-	-	1,400	2
2. Collar and Presink	m	13,778	45	620	3
3. Sink (incl. temp support)	m	4,622	555	2,565)
4. Line (200 mm)	m	3,150	555	1,748	) 8
5. Load Station (incl. support)	m ³	220	560	123	1
6. Plats (3 x 100m) (2.1 x 2.4m)	m	1,763	300	529)
7. Horiz. Dev. (2.1 x 2.4m)	m	1,764	1,000	1,764	) 10
8. Raise Bore Passes (1.2m)	m	1,000	400	400)
9. Raise Bore Vent Rise (1.6m)	m	1,200	550	660	) 1
10. Disestablishment	L.S.	-	-	250	1
11. Insurance	L.S.	-	-	121	
12. Pump Station	m ³	293	5,000	1,467	3.5
13. Equipping - Guides, Sets	m	1,650	600	990)
- Pipes	m	230	600	138	) 3
- Load Station	L.S.	-	-	200)
- Insurance	L.S.	-	-	16	
Engineering & Project Management					
Items 1 to 11 (7%)	L.S.	-	-	700	
Item 12 (7%)	L.S.	-	-	100	
Item 13 (10%)	L.S.	-	-	133	
STAGE 1 TOTAL				13,924	
<u>Stage 2</u>					
14. Sink (inc. temp support)	m	4,622	200	924)
15. Line	m	3,150	200	630	) 3
16. Plats (2 x 100m)	m	1,763	200	353	2
17. Raise Bore Passes	m	1,000	300	300)
18. Raise Bore Vent Rise	m	1,200	200	240	) 1
19. Equipping - Guides, Sets	m	1,650	200	330)
- Pipes	m	230	200	46	) 1
20. Insurance	L.S.	-	-	36	
Engineering & Project Management					
Items 14 to 20 (7%)	L.S.	-	-	210	
STAGE 2 TOTAL				3,069	
STAGE 1 & 2 TOTAL				16,993	

SHAFT SINKING - ROBERTS CONSTRUCTION

February 1985

FOR BEACONSFIELD - John Wright 922 7244

Assumptions

1. Two shafts - 600 metres deep

2. Sink (incl. 5) - 800 metres deep

2. Diameter 5 metre inside concrete

3. Establishment includes:

- Preparation of area
- 30 metre presink
- Some capital write-off
- Headframe hire
- Offices
- Formwork
- Grabs
- Electricians

4. Sinking 6 days per week.

5. Water make in shaft acceptable without penalty at Golden Crown is 15k litres per hour about 55 gallons per minute.

6. Sink and line rate 14 metres per week.

7. The 1,000 metres of horizontal development would be performed with track mounted equipment.

8. No works insurance included.

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196095

- 5.13 -

ROBERTS

ITEM	UNIT	RATE (\$)	QUANTITY	TOTAL (\$000)	TIME (WEEKS)
<u>Stage 1</u>					
1. Establishment, collar and presink 30 metres	L.S.	-	-	2,100	30
2. Sink	m	4,300	570	2,451)
3. Line	m	2,000	570	1,140	) 42
4. Plat - Breakoff	L.S.	-	-	60	1
5. Plat (3 x 100m) (2.1 x 2.4m)	m	1,800	300	540)
6. Horiz. Dev. (2.1 x 2.4m)	m	1,200	1,000	1,200	) 37
7. Load Station	m ³	225	560	126)
8. Pump Station	m ³	200	5,000	1,000	) 26
9. Raise Bore Passes (1.2m)	m	500	400	200)
10. Raise Bore Vent Rise (1.8m)	m	700	600	420	) 6
11. Services & General Support	L.S.	-	-	100	
12. Water Control	L.S.	-	-	1,000	
13. Equipment Installation	m	700	600	420	9
14. Equipment - Steel Sets/Guides	m	2,000 (Est)	600	1,200	
15. Demobilisation	L.S.	-	-	250	4
TOTAL				12,207	

CAPITAL COSTS

January 1985

Mining Equipment

- 1. Eimco 12B - Envirotech 517 1855
Rail Bogger Kevin Hutchison

\$20,000.00

- 2. Gemco Frank Quilty (09) 446 8844

(a) 3 tonne Battery Locomotive

Hauling capacity - 5 x 2 tonne granbys
Chain drive
\$30,000 with battery box (no batteries)
Battery \$4,000 each
Charger (oil cooled) \$5,000 each

Total per unit

Loco	30,000
Battery (2)	8,000
Charger	5,000
Total	43,000
Say	<u>\$45,000.00</u>

(b) Granby

2 tonne	<u>\$4,000.00</u>
Ramp	<u>\$3,000.00</u>

- (c) Sidetippers (1.25t) \$1,800.00

(d) Auxillary Fans

5 h.p.	<u>\$1,000.00</u>
10 h.p.	<u>\$1,500.00</u>

3. Sullivan Machinery Australia

Graham Morrison (045) 799 347

2 Drum Scraper Winches

15 h.p. Electric	\$15,000.00
25 h.p. Electric	\$25,000.00
15 h.p. Air	\$18,000.00
Assume 15 h.p. Electric	\$15,000.00
Starter etc.	\$1,500.00
Hoe	\$3,500.00
Total	<u>\$20,000.00</u>

4. Atlas Copco Peter Coxon 622 4444

(a) Panther Rockdrill BBD-90W	\$1,470.00
Air Leg	\$890.00
Oil Bottle	\$70.00
Total	<u>\$2,430.00</u>

(b) Falcon Stoper	\$2,580.00
Oil Bottle	<u>\$70.00</u>
	<u>\$2,650.00</u>

(c) Diamond Drill	
Diamec 251 - Drill	\$31,000.00
Power Pack	\$52,500.00
Pump	\$5,000.00
Electrics (say)	\$1,500.00
Total	<u>\$90,000.00</u>

(d) Cavo 310	<u>\$54,000.00</u>
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(e) Winch	
1 tonne A10	<u>\$4,300.00</u>
2 tonne A20	<u>\$7,100.00</u>

- B.16 -

099

(f)	Rockbolt Pump - "Swellex"	<u>\$4,500.00</u>
(g)	Compressor	
	ZR6AE 1660 1/sec (3,500 cfm)	<u>\$200,000.00</u>
	Cooling Tower	<u>\$20,000.00</u>
(h)	Integral Steel Grinder	
	LSD 64	<u>\$2,000.00</u>
(i)	Face Pumps	
	"Whirler"	<u>\$1,200.00</u>
	Diaphragm	<u>\$1,800.00</u>

CAPITAL - MINE PRODUCTION EQUIPMENT

At full production - 75,000 t.p.y.

Air-Leg Rockdrills

Operating	6 Stopes x 2	12
	3 Dev Crews x 3	9
		<hr/>
		21
	At 75% availability	28
	plus spare	2
		<hr/>
	Total	30
		<hr/>

Scrapers

	Total for stopes	9
	Spare	1
		<hr/>
	Total	10
		<hr/>

Rail Loaders

	Development Crews	3
	Spare - Level cleaning etc.	2
		<hr/>
	Total	5
		<hr/>

Cavo 310

	Development	1
	Wide Stope	1
		<hr/>
	Total	2
		<hr/>

Battery Locos

	Production	2
	Development	2
	Spare	1
		<hr/>
	Total	5
		<hr/>

Granby Trucks

	4 x 5 truck rakes	20
	5 spare	5
		<hr/>
	Total	25
		<hr/>

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Tipping Ramp

1 per level

Plus 1 spare

Miscellaneous Rolling Stock

Timber/gear trolleys 10

Side tippers 5

Slimes trucks 5

Miscellaneous 5

Total 25

Auxilliary Fans

1 per Development crew 3

1 per Stope 6

Spare 3

Total 12

Stope Winch

1 per operating stope 6

Spare 2

Total 8

Service Winch

1 only

Diamond Drill

1 only

Miscellaneous Mining Equipment

Includes Hand tools

Rail turnouts

Chute fronts

Crib rooms

Safety equipment

Etc.

\$75,000 per year.

Light Vehicles

Mine Manager	1
Mine Superintendent	1
Mill Superintendent	1
Engineering Superintendant	1
Miscellaneous	2
	<u> </u>
Total	6
	<u> </u>

Truck - Hiab 5 tonne

1 only
Life 5 years

Truck - Ore 10 tonne

2 to handle ore and waste from hoisting shaft to mill or dump
i.e., 100,000 tonnes ore plus waste
1 Shift per day (environmental reasons)

250 days per year

400 tonnes per day

Operating time 6.5 hours per day

50 minutes per hour

= 325 minutes per shift

Required trips per day = 400

10

= 40

Total time per trip say 15 minutes

Trips per day per truck = 325

15

= 21.7

Trucks for 40 trips = 2 on an ore shift basis

Life 5 years say.

Front End Loader

Cast 950B

For general work at mill and mine.

1 only

Life 5 years

103

WILLIAM ADAMS TRACTORS

13th February, 1985

Ian Gatehouse

(003) 44 5311

F.E.L. 950B Bucket and teeth

ROPS Cabin

List price \$140,000

F.E.L. 936 1.9 m³ \$115,000

F.E.L. 930 \$85,000

8/3/85

Beaconsfield metallurgical operations.

The following estimated capital and operating parameters to be adopted:-

Capital cost

	<u>A\$m. installed</u>
Crushing	0.65
Grinding	0.50
Gravity	0.08
Flotation	0.25
Roasting	2.20
Cyanidation and gold recovery	0.80
Tailings dam and sandfill plant	1.00
Ancillary pipework	0.15
Site development/buildings	1.00
Total installed cost	<u>6.63</u>
Initial spares	0.33
Total capital for metallurgical plant	<u>6.96*</u>

* does not include engineering, ~~and~~ construction management, contingency, etc.

POWER SUPPLY

HYDRO ELECTRIC COMMISSION

20th February, 1985

Robert Wilkinson

(003) 32 6111

1. 3MW Supply - Temporary

Approximate cost estimate \$25,000 maximum.
Complete re-examination would be required as soon as possible. The Beaconsfield area is "very awkward and the system heavily taxed".

(Note: the Golconda tailings operation will utilize 1MW)

2. 6MW Supply - Permanent

Very approximate cost estimated - \$500,000.
No design work has been done. For example, a submarine cable alone would cost \$100,000.
Six months investigation would be required and a total of several years lead time prior to supply.

3. Power Tariff

The appropriate tariff is 86.
Supply charge per quarter - \$153.00
Demand charge per quarter - \$22.70 per kW
Energy rate - 3.30 cents per unit.

105

TELEX MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE

196105

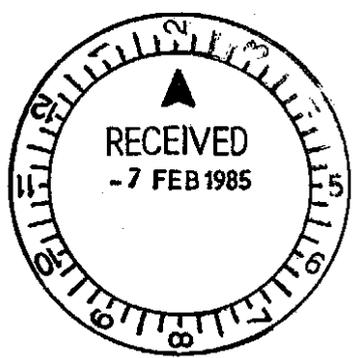
THIS IS AN URGENT MATTER

- B.23 -

7 FEB 1985

1. HOST 2. TELEX

Gary Walters
03-4892511



	ACT.	INF.
M.J.R.		
C.N.D.		
W.P.M.		
L.W.S.		
B.E.W.		
A.D.H.		
J.E.B.		
J.E.C.		
D.J.D.		
R.D.K.		
A.J.K.		
J.G.M.		
J.M.Mc.		
N.A.V.		
P.G.M.		
G.G.N.		
R.M.P.		
A.G.R.		
R.A.S.		
J.O.W.		
H.C.H.		
RAH	✓	
M.S.		✓

* CONGOLD AA20373
HAWKENG AA30631

RENISON SYDNEY
7.2.85. H02/165
ATTN MR R. HANSON
FROM G.F. WALTERS

FORWARD

U R G E N T

OUR REF EMD408

IN RESPONSE TO YOUR REQUEST FOR BUDGET PRICE FOR 2MW DIESEL GENSET, WE OFFER FOLLOWING :

ONE MIRRLEES BLACKSTONE 16MB190 ENGINE COUPLED TO ALTERNATOR OPERATING AT 1500RPM DEVELOPING 2029KW AT NTP CONDITIONS MOUNTED ON FABRICATED STEEL BASEPLATE COMPLETE WITH STARTING AIR SYSTEM, FUEL SYSTEM, EXHAUST SYSTEM, COOLING SYSTEM COMPRISING AIR/AIR RADIATORS SUPPLY AND DELIVER TO SITE. \$440,000.
ADDITIONAL SUM FOR SWITCH/GEAR AND CABLING BETWEEN ALTERNATOR AND BREAKER \$30,000
INSTALLATION DEPENDENT ON SITE CONDITIONS, ACCOMMODATION COSTS ETC. BUT ESTIMATE \$30,000
PROVISION OF ACOUSTIC/WEATHERPROOF ENCLOSURE (WHICH WOULD OBLVIATE NEED FOR BUILDING) \$30,000.
ABOVE PRICES BASED ON CURRENT EXCHANGE RATE, INCLUDE DUTY AT RATE OF 2 PERCENT ON ENGINE. SALES TAX EXCLUDED.

FUEL CONSUMPTION 0.202 KG PER KW HR WHICH EQUATES TO APPROX. 380 LITRES PER HR AT FULL LOAD. (WE HAVE INCLUDED FOR 5000) LITRE STORAGE TANK).

DIMENSIONS OF SETS (EXCLUDING RADIATOR) 6000 X 2000 X 2500 HIGH.

TRUST THIS MEETS YOUR PRESENT REQUIREMENTS.

REGARDS

HSE MELB.....

5
HAWKENG AA30631*
CONGOLD AA20373

TIMEOUT
/12:57 REF=IN-72 TIMEOUT. DURATION 00:05:43

TELEX MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE TELETYPE MESSAGE

RITZ SUBMERSIBLE PUMPS

Purchased for Beaconsfield project, but still owned solely by Amax.

Model Ritz 6,130 x 8

Power 470 kW

Number 2 off

Purchase price \$73,000 each.

INGERSOLL RAND - Dandenong

January, 1985

Paul Van Veenendaal (03) 791 3311

Martin Hibbert

Beaconsfield Centrifugal Pumps

Pump proposed:

Ingersoll Rand 6GT	8 inch suction
	6 inch discharge
Capacity	150 l/sec at 200 metres
Pump Speed	2,950 r.p.m.
Price	\$64,500

including 450 kW TEFC motor \$26,000

Starter price \$10,000

Power consumed 450 kW

Desliming pump

Aldrich reciprocating pump

price about \$30,000

109

FLYGT AUSTRALIA LIMITED

11 February 1985

Jim Calderwood.

Flygt B2400 HT \$17,600

90 kW

Cable \$42/metre 415V

RISING MAINS

January 1985

8 inch diameter (200 mm)

Galvanised, victaulic

Price to E.Z. \$315.36 for 6.5 metres

Couping 21.35

Total 336.71

Cost per metre \$ 51.80

Surface to 1,864 metres Pump Station

Say 200 metres

10,360

2 mains 20,720

plus 10% bands,

valves, etc. 22,792

say \$25,000

1,864 metre Pump Station to 1,669 metre Pump Station

Say 200 metres

as above \$25,000

Ritz pump columns at say \$100 per metre

Length 250 metres (Assume 10 inch pipe)

Cost 2 x 250 x 100

= \$50,000

1,669 metre Pump Station across 1,590 metres Level to

1,500 metre Pump Station

Length 550 metres, 2 mains.

say \$70,000

Shaft bottom Flygt pumps

Assume pipes \$25,000

INGERSOLL - RANDJanuary 1985

John Massey (03) 699 6544

Martin Hibbert (03) 699 6544

Packaged centrifugal compressor

4,000 cfm	110 psi	\$170,000
CIIRX 115-02		
Motor	850 kW	
Consumption	622 kW/hr	
Cooling Tower		\$20,000
Starter		\$25,000
Installation	say	\$25,000
Receiver not necessary		
Maintenance cost very low	say	\$1,000 per year
Total capital		<u>\$241,000</u>

196112

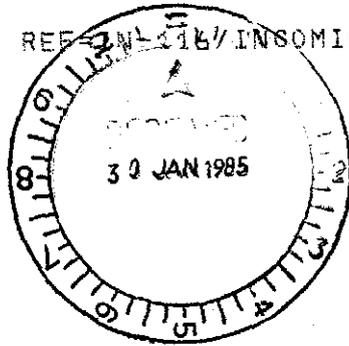
- B.30 -

\$
CONGOLD AA20373
/11:23 WED 30-JAN-85 REF=IN-116/INSOMING+++++

RICHSON AA30892

11.00AM 30/1/85

V27753



ATT:- R. HANSEN
RE:- BEACONSFIELD MINE - VENT FAN
OUR REF:- 30030/321/85

DUTY:- 28M3/S AT 1.5KPA (MAX)

FAN - 48'' DIA ADJUSTABLE PITCH AXIAL FLOW FAN WITH PRE-ROTATOR VANES, OUTLET DIFFUSER, INLET CONE (SUITABLE FOR MOUNTING FAN ON VERTICALLY) STARTER MOUNTING FRAME AND STAR-DELTA STARTER. FAN IS DIRECT DRIVEN BY A 75KW MOTOR (ALSO INCLUDED)

BUDGET PRICE - \$12140
PRICE IS NETT, EX WORKS MELB.
(BUDGET TRANSPORT PRICE TO SITE APPROX \$500)

SHOULD YOU REQUIRE FURTHER DETAILS (PERFORMANCE CURVE, DIMENSIONS ETC) THESE CAN BE PROVIDED ON REQUEST.

REGARDS
IAN MILLER
(D. RICHARDSON - MELB)

03-311-0541

RICHSON AA30892\$
CONGOLD AA20373

30 JAN 1985

	ACT.	INF.
M.J.R.		
C.N.D.		
W.P.M.		
L.W.S.		
B.E.W.		
A.D.H.		
J.E.B.		
J.E.C.		
D.J.D.		
P.P.		
A.J.K.		
J.G.M.		
J.M.W.		
N.M.		
G.M.		
C.M.		
P.M.		
A.M.		
T.M.		
R.T.H.		

/11:26 REF=IN-116 DISTANT END CLEARED. DURATION 00:02:

TELEX MESSAGE

TELEX MESSAGE

DIAMOND DRILLING

Operating costs Based on E.Z. Rosebery

Performance 4 metres per manshift

2 men per drill

Therefore 8 metres per drill shift.

Total cost \$100.00 per metre (estimate)

Cost per shift per drill \$800

Labour Cost \$130.00 per shift

On-cost 40%

Total Labour 130 x 2 x 1.4

= \$364

say \$400 with supervision

Therefore stores cost \$400 per shift

\$50 per metre



ICI Australia Operations Pty Ltd

Price List — 1st August 1984

VICTORIA
SOUTH AUSTRALIA
BROKEN HILL
TASMANIA
DARWIN

(03) 363 5111
(08) 297 3000
(080) 2537
(003) 31 9633
(089) 83 1104

116

Explosives Division
Southern & Central Region

N.G. EXPLOSIVES

	Per Case	\$
AN Gelignite '60'		
22mm x 100mm	115.00	
22mm x 200mm	100.00	
25mm x 200mm - bulk	89.50	
25mm x 200mm - 2.5kg bags	107.00	
29mm x 200mm	88.00	
32mm x 200mm	88.00	
45mm x 20 cartridges	87.00	
55mm x 16 cartridges	83.50	
65mm x 10 cartridges	83.50	
AN Gelatine Dynamite '95'		
25mm x 200mm	95.00	
55mm x 16 cartridges	88.00	
65mm x 10 cartridges	88.00	

SPECIAL USE EXPLOSIVES

'Hydromex' M2U - 130mm x 2 cartridges	85.50
'Hydromex' T3U - 90mm x 6 cartridges	87.50
'Anzite' Blue - 65mm x 10 cartridges	82.00
'Anzite' Blue - 65mm x 25 cartridges	87.50
'Plastergel' - 32mm x 200mm	93.50
'Exactex' - 85 metres	186.50
'Metabel' - 12 x 1kg sheets	648.00
Blasting Powder - 500g or 2.5kg bags	189.00

WATERGEL EXPLOSIVES

'Molanite' 115		
25mm x 200mm	92.50	
32mm x 200mm	90.50	
32mm x 400mm	89.00	
'Molanite' 110		
55mm x 24 cartridges	84.50	
65mm x 16 cartridges	84.50	
80mm x 8 cartridges	78.00	
90mm x 6 cartridges	78.00	
130mm x 3 cartridges	78.00	
'Plasterpak' (10 x 2.5kg bags)	90.50	
'Molanite' 95		
55mm x 24 cartridges	83.00	
65mm x 16 cartridges	83.00	

ANZOMEX PRIMERS

	Each	\$
'A' 25g (600 per case)	1.35	
'D' 130g (175 per case)	2.55	
'K' 185g (136 per case)	3.00	
'P' 400g (60 per case)	4.20	
'Q' 400g (60 per case)	4.15	
Shaped Charges - 1kg (10 per case)	11.25	

DETONATORS

	Per 100	\$
'L' Series Millisec Delays No. 8 Star Strength		
1.8m - 0-18 delays (475 per case)	101.00	
3.6m - 0-18 delays (475 per case)	118.00	
5.0m - 0-30 delays (25 per bag-500 per case)	135.00	
12m - 0-18 delays (15 per bag-150 per case)	252.00	
16m - 0-18 delays (15 per bag-150 per case)	287.00	
20m - 0-30 delays (10 per bag-100 per case)	320.00	
Half Second Delays No. 8 Star Strength		
1.8m - 0-10 delays (550 per case)	101.00	
3.6m - 0-12 delays (50 per bag-500 per case)	123.00	
5.0m - 0-18 delays (25 per bag-500 per case)	135.00	
Electric - Instantaneous No. 8 Strength		
1.8m (1500 per case)	74.00	
Submarine No. 8 Strength		
1.8m (1500 per case)	147.00	
8.0m (300 per case)	199.50	
18m Coiled (100 per case)	294.00	
Seismic No. 8 Star Strength		
30m (50 per case)	934.50	
45m (50 per case)	1134.00	
Plain No. 8 Strength		
(5000 per case)	14.30	
Detonating Relay Connectors	Each	\$
15, 25, 35 millisecond (500 per case)	2.30	
45 millisecond (500 per case)	2.40	
Price on Application		
Anzomex Sliders	Magna Dets	
Anoline Delays	Magna Primers	
Cordline Delays	Nonel GT Detonators	

DETONATING CORD

	Per 1000m	\$
Redcord - 334m reels (3 per case)	325.50	
Redcord - 50m reels (1 per case)	367.50	
Flexicord - 334m reels (3 per case)	351.75	
Trunkcord - 500m reels (3 per case)	273.00	
Shearcord 55m reels (3 per case)	1454.25	

***SURCHARGES**

	Per Case	\$
Broken Hill	3.00	
Burnie	1.50	
Darwin	10.00	
Launceston	3.00	

'NITROPRIL'

40kg Bags	Full Truckloads	Per Tonne	\$
Adelaide			495.00
Burnie			530.00
Darwin			625.00
Hobart			553.00
Melbourne			490.00

***SURCHARGES**

	Per Tonne	\$
For all orders less than full truckload	10.00	
For all orders less than 1 tonne (Melb. only)	25.00	

BLASTING ACCESSORIES

		\$
Blasting Cable-100m reels 50/0.25mm each		77.00
Blasting Cable-100m reels 24/0.20mm each		20.60
Blastometer 80 (Circuit Tester)		130.00
Carrying Boxes - Small	each	24.00
- 1 Case	each	210.00
- 2 Cases	each	260.00
Cordtex Connectors	per 100	4.40
Cordtex Cutters	each	13.80
Detonator Nippers	each	7.00
Electric Fuseheads - 1.8m	per 1000	395.00
Electric Igniters for Igniter Cord	each	0.86
Exploders - Beethoven	each	800.00
- Nissan	each	310.00
Igniter Cord Fast - 150m reels	each	33.50
Igniter Cord Connectors-500 pack	per 100	11.65
Layflat Tube -		
75mm width - 360m reels	per roll	36.00
90mm width - 360m reels	per roll	43.00
100mm width - 181m reels	per roll	20.00
125mm width - 181m reels	per roll	25.00
Magazines - 1 to 400 Cases		P.O.A.
Priming Clips	each	0.23
Rheostat	each	52.00
Scotchlock Crimpers	each	28.00
Waxoline ANFO Dye	per kg	18.70
Wire - Single 1000m	per reel	18.00
- Twin 200m	per reel	13.40
- Twin Twist 500m	per reel	30.00
- Scotchlock Connectors UR	per 100	24.00

SAFETY FUSE

	Per Case	\$
12.5m Coils - 80 per case	203.20	
250m reels - 4 per case	191.72	
Broken Case Surcharge	per coil	1.00
Broken Case Surcharge	per reel	7.50

• Plus 20% Sales Tax where applicable.

TERMS OF SALE: Ex Store or Magazine at which goods are stocked. Not all products listed are available ex all magazines or stores and * surcharges apply at some locations

1 C.2

196114

CONSUMABLES

January 1985

1. Atlas Copco Peter Coxon

(a) Integral Drill Steel

Series I6	<u>List</u>	<u>Less 15%</u>
600 mm	\$93.00	\$79.00
1,200 mm	\$100.00	\$85.00
1,800 mm	\$108.00	\$92.00
2,400 mm	\$117.00	\$99.00

(b) Rockbolt "Swellex" \$10.00
 plus plate

(c) Diamond Drill

TT46 Barrell \$410.00
 3m Steel Rod \$50.00

TYPICAL STORES

1st February, 1985.

E.Z. Rosebery

R. Hepburn

Rail 22kg 15ft Length

\$83.55

Pipe - Galvanised, Victaulic 6.5 metre

50 mm \$39.26

100 mm \$87.78

150 mm \$161.85

200 mm \$315.36

Couplings

50 mm \$7.56

100 mm \$10.79

150 mm \$16.63

200 mm \$21.35

Drill Steel

Integral 1.8 metre

\$61.73 each

Timber

Sleepers 200 x 100 \$4.73 each

Pass Logs 150 x 150 \$6.63 "

Manway Logs 200 x 100 \$5.31 "

118

STOPPING COSTS - CUT AND FILL - BEACONSFIELD

January 1985

1. EXPLOSIVES

Tonnes per end = 29

Holes per end = 16

Detonators

1/2 sec 3.6 metre Cost \$123.00 per 100

i.e. \$1.23 each

16 x 1.23

= \$19.68

Gelignite - AN60

16 holes x 1.4 metres

Cartridge 0.2 metres each

Total cartridges = 16 x 1.4

0.2

= 112

Cartridges per case = 200

Cost per case = \$89.50

Cost per end = \$89.5 x 112

200

= \$50.12

120

Anfo

16 holes x 1.4 metres per hole
 Density 0.95, holes diameter 32 mm
 Kg/metre = 0.76

Anfo per end = 16 x 1.4 x 0.76
 = 17.0 kg

Nitropril cost = \$530.00/tonne
 Add 50% for handling and mixing costs
 = 530 x 1.5
 = \$795 per tonne

Cost per end = \$795 x 17.0

 1000
 = \$13.52

Can expect wet faces at Beaconsfield

Assume consumption 1/3 Anfo
 2/3 AN60

Typical explosives cost per end

Detonators	\$19.68
Explosives	\$50.10 x 0.67 x \$13.50 x 0.33
Misc. + 10%	\$5.77
Total	<u>\$63.47</u>

Cost per tonne
 = \$63.47

 29
 = \$2.19
 Say \$2.20

2. GROUND SUPPORT

Assume rockbolt support for backs and hanging wall

Rockbolts per end

Backs	6
Hanging wall	8
Footwall	4
	<hr/>
	18

Rockbolts to be used

Split Set 1.8 metre	\$4.00 each
Bearing plate	\$1.20 each
	<hr/>
TOTAL	\$5.20
	<hr/> <hr/>

Bolt cost 18 x 5.20
= \$93.60 per end
= 93.6

 per tonne
29
= 3.23 per tonne
say \$3.25 per tonne

3. DRILL STEEL

1.8 metre holes per end

Blastholes	16
Rockbolts	18
Total	34

Assume 6 holes per steel per sharpening

Steels used = 34

6
= 5.7
say 6

122

Assume 5 sharpenings per steel

$$\begin{aligned} \text{New steel required per end} &= 6 \\ &\quad \underline{\quad} \\ &\quad 6 \\ &= 1.0 \end{aligned}$$

Cost of 1.8 metre steel = \$92

$$\begin{aligned} \text{Cost per end} &= 92.0 \times 1 \\ &= \$92 \end{aligned}$$

$$\begin{aligned} \text{Cost per tonne} &= 92 \\ &\quad \underline{\quad} \\ &\quad 29 \\ &= 3.17 \end{aligned}$$

Plus 25% for starter steels etc.

$$\begin{aligned} &= 3.17 \times 1.25 \\ &= 3.97 \\ \text{say} &\quad \underline{\underline{\$4.00}} \end{aligned}$$

4. FILL PREP ETC.

Stope Lifts (up dip) 2.5 metres

Ore Pass Extension

Pass log thickness 0.15 metres

$$\begin{aligned} \text{Pass logs/extension} & 2.50 \\ & \quad \underline{\quad} \times 4 \\ & \quad 0.15 \end{aligned}$$

= 66.7

say 70

Cost \$6.63 each

Total cost 70 x 6.63

= \$464.10

Manway Extension

Manway log thickness 0.248 metres

$$\begin{aligned} \text{Manway logs/extension} & 2.5 \\ & \quad \underline{\quad} \times 4 \\ & \quad 0.248 \end{aligned}$$

= 40.3

say 45

Cost \$5.31 each
 Total cost 45 x 5.31
 = \$238.95

Prep stores

Pass 464.10
 Manway 238.95

Misc. timber,
 hessian, wire,
 pipes, etc. (+50%) 351.53

Total \$1054.58

Ore volume/stope/lift

= 2.4 x 2.4 x 75

= 469 m³

Tonnes/lift = 1,220

Cost per tonne = 1,055

1,220

= 0.86

say \$0.90

DEVELOPMENT COSTS - DRIVING - BEACONSFIELD

January 1985

196122

2.1 m x 2.4 m

1. EXPLOSIVES

Advance per round

Drill 1.8 metres

Advance 1.7 metres

Fired holes per end = 30

Detonators

Millisec 3.6 metres

Cost \$118 per 100

i.e. \$1.18 each

30 x 1.18

= \$35.40

Gelignite - AN60

30 holes x 1.5 metres

Cartridge 0.2 metres each

Total cartridges = 30 x 1.5

0.2

= 225

Cartridge per case = 200

Cost per case = \$89.50

Cost per end = 89.5 x 225

200

= \$100.69

Anfo

30 holes x 1.5 metres per hole

Density 0.95, holes diameter 32 mm

Kg/metre = 0.76

Anfo per end = 30 x 1.5 x 0.76

= 34.2 kg

Nitropril cost = \$530.00/tonne

Add 50% for handling and mixing costs

= 530 x 1.5

= \$795 per tonne

Cost per end = \$795 x 34.2

1000

= \$27.19

Can expect wet faces at Beaconsfield

Assume consumption 1/3 Anfo

2/3 AN60

Typical explosives cost per end

Detonators \$35.40

Explosives \$100.69 x 0.67 x \$27.19 x 0.33

Misc. + 10% \$11.18

Total \$123.02

Cost per metre advance

= \$123.02

1.7

= \$72.37

Say \$73.00 per metre

126

2. GROUND SUPPORT

Rockbolts per end
 2 rows of 5 bolts
 Total 10

Rockbolt cost \$5.20 each

Cost per end = 5.2 x 10
 = \$52.00

Cost per metre = 52.0
1.7
 = 30.59

Say \$31.00

3. DRILL STEEL

1.8 metre holes per end
 Blastholes 31
 Rockbolts 10
 Total 41

Assume 6 holes per steel per sharpening

Steels used = 41
6
 = 6.8

Say 7

Assume 5 sharpenings per steel

$$\begin{aligned}
 \text{New steel required per end} &= 7 \\
 &\quad \underline{\quad} \\
 &\quad 6 \\
 &= 1.2
 \end{aligned}$$

Cost of 1.8 metre drill steel = \$92

$$\begin{aligned}
 \text{Cost per end} &= 92.0 \times 1.2 \\
 &= 110.40
 \end{aligned}$$

$$\begin{aligned}
 \text{Cost per metre} &= 110.4 \\
 &\quad \underline{\quad} \\
 &\quad 1.7 \\
 &= 64.94
 \end{aligned}$$

Plus 25% for starter steels, reamer bits, etc.

$$\begin{aligned}
 &= 64.94 \times 1.25 \\
 &= 81.18
 \end{aligned}$$

say \$82.00

4. SERVICES

	\$/metre of drive
Rail	37.00
Sleepers etc.	15.00
Air pipe 100 mm	15.20
Water pipe 50 mm	7.20
Vent Bag (estimate)	5.00
 Total	 79.40
	say <u>\$80.00</u>

DEVELOPMENT COSTS - RISING - BEACONSFIELD

January 1985

1.5 m x 1.8 m

1. EXPLOSIVES

Advance per round

Drill 1.8 metres

Advance 1.7 metres

Fired holes per end = 16

Detanators

Millisec 3.6 metre Cost \$118 per 100

i.e. \$1.18 each

16 x 1.18

= \$18.88

Gelignite - AN60

16 holes x 1.5 metres

Cartridge 0.2 metres each

Total cartridges = 16 x 1.5

0.2

= 120

Cartridges per case = 200

Cost per case = \$89.50

Cost per end = \$89.5 x 120

200

= \$53.70

Typical explosives cost per end

Detonators	\$18.88
Explosives	\$53.70
Misc. + 10%	\$ 7.26
Total	<u>\$79.84</u>

Cost per metre advance

= \$79.84

1.7

= 46.96

say \$47.00 metre

2. GROUND SUPPORT

Rockbolts per end

say 4

Rockbolt cost say \$4.50 (1.2 m)

Cost per end = \$18.00

Cost per metre = 18

1.7

= 10.59

say \$11.00

3. DRILL STEEL

1.8 metre holes per end

Blastholes 17 (including burn)

Rockbolts 3 (1.8 m equiv.)

Total 20

130

Assume 6 holes per steel per sharpening

Steels used = 20

$$\begin{array}{r} \text{---} \\ 6 \\ = 3.3 \end{array}$$

Assume 5 sharpenings per steel

New steel required = 3.3

$$\begin{array}{r} \text{---} \\ 6 \\ = 0.6 \end{array}$$

Cost of 1.8 metre steel = \$92

Cost per end = 0.6 x 92

= 55.20

Cost per metre = 55.2

$$\begin{array}{r} \text{---} \\ 1.7 \\ = \$32.50 \end{array}$$

Plus 25% for starter steels, reamer bits, etc.

= \$32.50 x 1.25

= 40.63

say = \$41.00

4. SERVICES

	\$/metre or rise
Pipe 50mm	15.20
Pipe 25mm	5.00
Ladder (assume)	20.00
Chain, Pins, etc.	5.00
Total	45.20
say	<u>\$46.00</u>

ENGINEERING

1. MINE MAINTENANCE COSTS (excluding labour)

Based on E.Z. Rosebery

Air Leg Rockdrill (Panther)

\$4,500 per year per unit

Includes legs.

Scraper J211 15 h.p.

\$4,100 per year per unit

Rail Loader (Emco 12B)

Maintenance half capital cost including labour.

Parts 25% of capital cost.

Development Loader (Cavo 310)

As for rail loader (above), i.e. 25%.

Battery Locomotives

Parts half loco capital cost per year.

Loco cost \$30,000 (no battery)

Granby Trucks

Maintenance parts 12.5% of capital cost per year.

Miscellaneous Rail Equipment

As for granby trucks (above) i.e. 12.5%.

Auxilliary Fans

Estimate 25%

Stope Winch

Estimate 12.5%

Light Vehicles

20,000 km per year at \$0.25/km

= \$5,000

Truck - 5 tonne - Hiab

\$9,000 (Pine Creek)

Ore Truck - 10 tonnes

Annual hours = 7 hrs/day x 250 days/year
= 1,750 hours

Hourly parts, fuel, tyres say \$10.00

Annual cost = \$17,500

Front End Loader - Cat 950B

Annual hours = 4 hrs/day x 250 days/year
= 1,000 hours

Hourly parts, fuel, tyres say \$18.00

(W & J \$15.75 (8/82) plus 15%)

Annual cost = \$18,000

2. HOISTING

Estimate \$60,000/year

G. Deutsch, Hardcastle & Richards

3. PUMPS

- I.R. 6GT

Assume one rebuild per pump per year.

Ingersoll Rand (Martin Hibbert) suggest annual cost for clear water of \$5,000 to \$10,000 per year. This would include wear rings, seals, bearings, packings, etc. However, assuming less than perfect water quality, other repairs, electrical repairs, major rebuilds, etc., suggested maintenance cost per pump per year estimated at \$20,000 per year. This is in broad agreement with pump costs at Renison.

- Flygt

These shaft bottom pumps are estimated to cost \$5,000 per year each to maintain.

- Miscellaneous Pumps

Assume \$20,000 per year for miscellaneous pump maintenance.

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4. SERVICES

Compressor

\$1,000 per year

Estimate Ingersoll Rand.

Standby Generator

Assume operates 1 hour per week, 52 weeks per year

Annual hours 52

Fuel consumption 380 litres per hour

Annual fuel - 19,760 litres

Say 20,000 litres

Assume \$0.5 per litre

Annual fuel cost \$10,000

Part, service, etc. \$ 2,000 say

Total \$12,000/year

Ventilation Fans

Assume 10% of capital cost

say \$4,000 year

Buildings/Houses

Maintenance estimate \$50,000/year

Contract Maintenance

Estimate \$1.00 per tonne

say \$75,000/year

Note this rate is used for the pre-production years and would include winder maintenance, pump maintenance, labour, etc.

EXPECTED POWER DEMAND

have assumed that maximum electrical demands as listed below will exist during the respective stages of the project.

Dewatering Phase

Two Ritz 450kW electrosubmersible pumps	960 kW ¹⁾
Two Kelly & Lewis 7/10 MSS pumps	800 kW ²⁾
Tolerance of 5% on pump powers	90 kW ³⁾
Mine winder	165 kW ⁴⁾
Overhead crane	30 kW ⁵⁾
Compressors and ventilation	50 kW
Surface lighting and small power	25 kW
Welding	30 kW ⁶⁾
Transformer losses	<u>50 kW⁷⁾</u>
TOTAL kW	<u>2200 kW</u>
TOTAL KVA AT 0.80 PF	2750 kVA

The probable peak demand allowing for full pumping power and 80% diversity on the remaining loads, is about 2100 kW or 2650 kVA.

- 1) 430 kW shaft power, 0.90 motor efficiency
- 2) 384 kW shaft power, 0.95 motor efficiency
- 3) assumed 90 kW shaft power, 0.90 motor efficiency
- 4) 200 HP motor, assumed efficiency 0.90
- 5) Hardcastle & Richards data
- 6) two 400A electric welders
- 7) 2%

3.2 Exploratory Phase

Drilling and sampling will be carried out during this period.

Four Kelly & Lewis 7/10 MSS pumps	1620 kW
Two low level pumps	200 kW ¹⁾
Tolerance of 5% on pump powers	80 kW
Mine winder	165 kW
Overhead crane	30 kW
Ventilation	60 kW ⁵⁾
Compressors	-
Surface lighting and small power	25 kW
Welding	30 kW ²⁾
Underground lighting and small power	30 kW
Transformer losses	50 kW ³⁾
Contingencies	230 kW ⁴⁾
TOTAL kW	<hr/> 2490 kW <hr/>
TOTAL kVA AT 0.80 P.F.	3110 kVA

The probable peak demand, allowing full pumping power and 80% diversity on the remaining loads, is about 2350 kW or 2950 kVA.

It is our understanding that during this phase the electrosubmersible pumps will be held ready for emergency use in the event of the flooding of a fixed pump chamber. This load has not been included in the list above, as it is assumed that other large pumps will be out of service due to submergence.

- 1) assumed 90 kW shaft power, 0.90 motor efficiency
- 2) two 400A electric welders
- 3) 2%
- 4) 10% of total
- 5) diesel compressors to be used

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3.3

Operational Phase

This phase will include the installation of a mill and conveyor system, together with underground development which may involve dewatering to a deeper level.

Four Kelly & Lewis 7/10 MSS pumps	1620 kW
Two low level pumps	200 kW ¹⁾
Additional high capacity pumps	960 kW
Tolerance of 5% on pump powers	140 kW
Service winder	165 kW
Sinking winder	400 kW
Overhead crane	30 kW
Ventilating fans	140 kW
Compressors	100 kW ²⁾
Conveyors	150 kW
Grinding mill	150 kW
Surface lighting and small power	25 kW
Welding	30 kW
Underground lighting and small power	30 kW
Transformer losses	80 kW ³⁾
Contingencies	<u>420 kW⁴⁾</u>
TOTAL kW	<u>4640 kW</u>
TOTAL kVA AT 0.80 P.F.	5800 kVA

The probable peak demand, allowing full pumping power and 80% diversity on the remaining loads, is about 4300 kW or 5400 kVA.

It is our understanding that during this phase the electrosubmersible pumps will be held ready for emergency use in the event of the flooding of a fixed pump chamber. This load has not been included in the list above, as it is assumed that other large pumps will be out of service due to submergence.

- 1) assumed 90 kW shaft power, 0.90 motor efficiency
- 2) 600 cfm @ 100 psig
- 3) 2%
- 4) 10% of total

POWER

CONSUMPTION

1. Pumps

Ritz 470 kW 150 l/s

2 pumps, average 282 l/s

$$\begin{aligned} \text{Annual consumption} &= 2 \times \frac{470}{1,000} \times \frac{282}{300} \times 24 \times 365 \\ &= 7,740 \text{ MW hr} \end{aligned}$$

I.R.6GT 450 kW 150 l/s

Total flows investigated (sum of all pumps operating):-

	<u>282 l/s</u>	<u>220 l/s</u>	<u>525 l/s</u>	<u>700 l/s</u>	<u>875 l/s</u>
kW/hr	846	660	1,575	2,100	2,625
MWhrs/year	7,411	5,782	13,797	18,396	22,995
Say	7,500	5,800	13,800	18,400	23,000
Half year	3,750				

Flygt

One pump continuously

90 kW

$$\begin{aligned} \text{Annual power} &= \frac{90}{1,000} \times 24 \times 365 \text{ MW hrs} \\ &= 788 \text{ MW hrs} \\ &\text{say } 800 \text{ MW hrs} \end{aligned}$$

Note one pump operating in Hart Shaft, one in the production shaft.

2. OTHER

Production Winder

Hardcastle and Richards suggest a total of 2 kW per tonne of ore hoisted.

Ignoring build-up

$$\begin{aligned} \text{Annual consumption} &= 2 \times 75,000 \text{ MW} \\ &\quad \underline{\quad\quad\quad 1,000} \\ &= 150 \text{ MW} \end{aligned}$$

Hart Shaft Winder

Assume one third of production winder.

i.e., 50 MW constant.

Will be greater during dewatering, reducing once production shaft completed.

Overhead Crane

Primarily used during dewatering.

Say 6 hrs per day 250 days per year.

$$\begin{aligned} \text{Consumption} &= 30 \times 6 \times 250 \\ &\quad \underline{\quad\quad\quad 1,000} \\ &= 45 \text{ MW} \end{aligned}$$

Consumption 10% of above during exploration and production phase.

Compressor

Assume 16 hrs per day, 250 days per year at 75% capacity.

$$\begin{aligned} \text{Consumption} &= 625 \times 16 \times 250 \times 0.75 \\ &\quad \underline{\quad\quad\quad 1,000} \\ &= 1,875 \text{ MW hrs} \end{aligned}$$

Ventilation

Assume 24 hrs per day, 365 days per year.

$$\begin{aligned}
 &\text{Consumption at 50 kW} \\
 &= \frac{50 \times 24 \times 365}{1,000} \\
 &= 438 \text{ MW hrs}
 \end{aligned}$$

$$\begin{aligned}
 &\text{Consumption at 100 kW} \\
 &= 876 \text{ MW hrs}
 \end{aligned}$$

Surface Lighting and Small Power

Assume 10 hrs per day, 365 days per year.

$$\begin{aligned}
 \text{Consumption} &= \frac{30 \times 10 \times 365}{1,000} \\
 &= 110 \text{ MW hrs}
 \end{aligned}$$

Welding

Assume 4 hrs per day 250 days per year.

$$\begin{aligned}
 \text{Consumption} &= \frac{30 \times 4 \times 250}{1,000} \\
 &= 180 \text{ MW hrs}
 \end{aligned}$$

Scrapers

Assume 6 hrs per day 250 days per year.

$$\begin{aligned}
 \text{Consumption} &= \frac{60 \times 6 \times 250}{1,000} \\
 &= 90 \text{ MW hrs}
 \end{aligned}$$

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Diamond Drill

Assume 6 hrs per day 250 days per year.

$$\begin{aligned} \text{Consumption} &= \frac{30 \times 6 \times 250}{1,000} \\ &= 45 \text{ MW hrs} \end{aligned}$$

Transformer Losses

$$\begin{aligned} \text{Consumption} &= \frac{50 \times 24 \times 365}{1,000} \\ &= 438 \text{ MW hrs} \end{aligned}$$

$$\begin{aligned} \text{or} &= \frac{80 \times 24 \times 365}{1,000} \\ &= 700 \text{ MW hrs} \end{aligned}$$

MINERAL ROYALTY - TASMANIAN MINES DEPARTMENT

26.3.85

Mike Geeves (002) 30 3397

The following formulae apply.

- (a) In years where annual profit is less than \$10,000,000, royalty is the lessor of $2\frac{1}{2}\%$ of realisable proceeds of sales or 5% of profit.
- (b) Where annual profit is between \$10,000,000 and \$15,00,000, royalty is the lessor of 3% of realisable proceeds of sales or 6% of profit.
- (c) Where annual profit is greater than \$15,000,000, royalty is the lessor of $3\frac{1}{2}\%$ of realisable proceeds of sales or 7% of profit.

NOTES

- 1. Losses cannot be carried forward.
- 2. No royalty if profit less than \$50,000.
- 3. Proceeds are defined as revenue minus costs of transport, handling and selling.
- 4. Profit is defined as that which the Taxation Commissioner calls profit.
- 5. If the product is refined in Tasmania, the royalty payable is reduced by 20%.

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
ORE & WASTE REMOVAL																								
IN SITU ORE REMOVED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.8	56.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	0.0
MINE DILUTION FACTOR (X)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	0.0
GOLD GRADE - IN SITU (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	0.00
GOLD GRADE - MINE PRODUCTION (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	0.00
SILVER GRADE - IN SITU (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	0.00
SILVER GRADE - MINE PRODUCTION (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	0.00
COPPER GRADE - IN SITU (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00
COPPER GRADE - MINE PRODUCTION (X)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.000
WASTE REMOVED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0
SPECIFIC GRAVITY (ORE & WASTE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	0.00
ORE PRODUCTION SCHEDULE (000 TONNES)																								
- OPENING ROM STOCKPILE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- MINE PRODUCTION	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	67.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	0.0
- ORE PLANT FEED	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.5	67.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	0.0
- CLOSING ROM STOCKPILE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRAVITY PLANT - PRODUCTION AND METALLURGICAL RECOVERY																								
GOLD RECOVERY - GRAVITY PLANT (X)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	0.0
GOLD RECOVERY - GRAVITY PLANT (000 GM)	0	0	0	0	0	0	0	0	90	270	300	300	300	300	300	300	300	300	300	300	300	300	300	0
GOLD GRADE - GRAVITY PLANT PRODUCT (GM/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	0.0
GRAVITY PLANT PRODUCTION (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0	270.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	0.0
GRAVITY PLANT TAILS (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.4	67.2	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	0.0
GOLD GRADE - GRAVITY PLANT TAILS (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	0.00
SILVER RECOVERY - GRAVITY PLANT (X)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	0.0
SILVER RECOVERY - GRAVITY PLANT (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	0.0
SILVER GRADE - GRAVITY PLANT TAILS (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	0.00
COPPER LOSS - GRAVITY PLANT (X)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
COPPER LOSS - GRAVITY PLANT (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.6	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	0.0
COPPER GRADE - GRAVITY PLANT TAILS (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.00
GRAVITY PLANT CONCENTRATE																								
GRAVITY PLANT PRODUCTION (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0	270.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	0.0
GRAVITY PLANT PRODUCTION - GOLD GRADE (GM/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	0.0
GRAVITY PLANT PRODUCTION - SILVER GRADE (GM/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	0.0
GRAVITY PLANT PRODUCTION - COPPER GRADE (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	0.00
COPPER FLOTATION - PRODUCTION AND METALLURGICAL RECOVERY																								
FEED FROM GRAVITY PLANT TO FLOTATION (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.41	67.23	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	0.00
GOLD GRADE - FEED FROM GRAVITY PLANT (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	0.00
SILVER GRADE - FEED FROM GRAVITY PLANT (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	0.00
COPPER GRADE - FEED FROM GRAVITY PLANT (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.00
COPPER RECOVERY - CU CONC (% OF GRAVITY FEED)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	0.00
COPPER RECOVERY - CU CONC (% OF FLOTATION FEED)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	0.00
COPPER RECOVERY - COPPER CONCENTRATE (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.4	478.1	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	0.0
COPPER CONCENTRATE - COPPER GRADE (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	0.00
COPPER CONCENTRATE PRODUCTION (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	3.19	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	0.00
COPPER FLOTATION PLANT TAILS (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.35	64.04	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	0.00
COPPER GRADE - COPPER FLOTATION PLANT TAILS (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.00
GOLD RECOVERY - CU CONC (% OF GRAVITY FEED)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	0.00
GOLD RECOVERY - CU CONC (% OF FLOTATION FEED)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	0.00
GOLD RECOVERY - COPPER CONCENTRATE (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5	202.5	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	0.0
GOLD GRADE - COPPER FLOTATION PLANT TAILS (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	0.00
SILVER RECOVERY - CU CONC (% OF GRAVITY FEED)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	0.00
SILVER RECOVERY - CU CONC (% OF FLOTATION FEED)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	0.00
SILVER RECOVERY - COPPER CONCENTRATE (000 GM)																								

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8		
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
COPPER CONCENTRATE PRODUCTION																										
COPPER CONCENTRATE PRODUCTION (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	3.19	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	0.00	
COPPER CONCENTRATE - GOLD GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	0.00	
COPPER CONCENTRATE - SILVER GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	0.00	
COPPER CONCENTRATE - COPPER GRADE (%)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	0.00	
PYRITE FLOTATION																										
FEED FROM COPPER FLOTATION (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.35	64.04	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	0.00	
GOLD GRADE - FEED FROM COPPER FLOTATION (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	0.00	
SILVER GRADE - FEED FROM COPPER FLOTATION (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	0.00	
GOLD RECOVERY - PYRITE CONC (% OF GRAVITY FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	0.0	
GOLD RECOVERY - PYRITE CONC (% OF PYRITE FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	0.0	
GOLD RECOVERY - PYRITE CONCENTRATE (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	270.0	810.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	0.0	
SILVER RECOVERY - PYRITE CONC (% OF GRAVITY FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	0.0	
SILVER RECOVERY - PYRITE CONC (% OF PYRITE FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	0.0	
SILVER RECOVERY - PYRITE CONCENTRATE (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	26.2	78.7	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	0.0	
PYRITE PLANT CONCENTRATE/ROAST FEED																										
PYRITE CONCENTRATE PRODUCTION (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0	
PYRITE CONCENTRATE - GOLD GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	0.00	
PYRITE CONCENTRATE - SILVER GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	0.00	
CALCINE PRODUCTION/CIP PLANT FEED																										
CALCINE RECOVERY (% OF ROAST FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	0.0	
CALCINE RECOVERY (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	
CALCINE - GOLD GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	0.00	
CALCINE - SILVER GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	0.00	
GOLD RECOVERY (% CIP PLANT FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	0.0	
GOLD RECOVERY (CIP PLANT) (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	251.1	753.3	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	0.0	
SILVER RECOVERY (% OF CIP PLANT FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	0.0	
SILVER RECOVERY (CIP PLANT) (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	43.3	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	0.0	
PRODUCTION SUMMARY																										
GOLD BULLION PRODUCTION (000 GM)																										
- GRAVITY PLANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0	270.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	0.0	
- CIP PLANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	251.1	753.3	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	0.0	
TOTAL GOLD BULLION (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	341.1	1023.3	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	0.0	
SILVER BULLION PRODUCTION (000 GM)																										
- GRAVITY PLANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	0.0	
- CIP PLANT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.4	43.3	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	0.0	
TOTAL SILVER BULLION (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	29.4	88.3	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	0.0	
COPPER CONCENTRATE PRODUCTION																										
- GOLD CONTENT (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5	202.5	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	0.0	
- SILVER CONTENT (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	30.0	90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0	
- COPPER CONTENT (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.4	478.1	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	0.0	
TOTAL MINE PRODUCTION																										
TOTAL GOLD PRODUCTION (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	408.6	1225.8	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	0.0	
TOTAL SILVER PRODUCTION (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	59.4	178.3	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	0.0	
TOTAL COPPER PRODUCTION (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	159.4	478.1	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	0.0	

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196141

AS AT
26/03/85

BEACONSFIELD PROJECT
CAPITAL EXPENDITURE AND TIMING (1)

CASE 1

	CBST 1984/5 \$	84/5 -8	85/6 -7	86/7 -6	87/8 -5	88/9 -4	89/90 -3	90/1 -2	91/2 -1	92/3 1	93/4 2	94/5 3	95/6 4	96/7 5	97/8 6	98/9 7	99/00 8	00/1 9	01/2 10	02/3 11	03/4 12	04/5 13	05/6 14	06/7 15	
MINE DEVELOPMENT																									
HART SHAFT - ONGOING MAINTENANCE	70	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (ORDER OF MAGNITUDE)	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE DIAMOND DRILL PROGRAMME	200	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HART SHAFT DEWATERING																									
- TENDER/MOBILISE	500	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HEADFRAME/WINDER	300	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEWATER/REHABILITATION	4000	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1864RL	150	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1659RL	150	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNDERGROUND DEVELOPMENT																									
UNDERGROUND EXPLORATION DRILLING	800	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	500	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	150	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 1																									
- TENDER/PRESINK/HEADFRAME	1750	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (605M)	4500	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (500M)	1225	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1500RL	1250	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1500RL	250	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	1175	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PRODUCTION WINDER/WINDER HOUSE	2150	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/CONVEYANCES/LOAD STATION	510	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	125	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	195	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 1																									
- ORE & WASTE PASSES	300	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	1485	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	143	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 2																									
- TENDER/MOBILISE	1000	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (265M)	2173	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (800M)	1960	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	126	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1320RL	1250	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1320RL	250	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	500	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/LOAD STATION	250	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	55	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1185RL	1250	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1185RL	250	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	195	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 2																									
- ORE & WASTE PASSES	450	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	743	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	285	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT																									
AIR LEG ROCKDRILL	3	0	0	0	0	0	0	0	0	20	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCRAPER (15hp)	20	0	0	0	0	0	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RAIL LOADERS (EIMCO 12B)	20	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEVELOPMENT LOADER (CAVO 310)	55	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTERY LOCOS (3 TONNE)	45	0	0	0	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRABBY TRUCKS (2 TONNE)	4	0	0	0	0	0	0	0	0	15	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIPPING RAMP	3	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC RAIL EQUIPMENT	2	0	0	0	0	0	0	0	0	10	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0
AUXILIARY FANS (5/10hp)	1	0	0	0	0	0	0	0	0	6	3	0	0	0	6	3	0	0	0	0	0	0	0	0	0
STOPE WINCH (1 TONNE)	5	0	0	0	0	0	0	0	0	4	4	0	0	0	4	4	0	0	0	0	0	0	0	0	0
SERVICE WINCH (3 TONNE)	25	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
DIAMOND DRILL (DIAPAC 251)	90	0	0	0	0	0	0	0	0	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1
MISC MINING EQUIPMENT	75	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LIGHT VEHICLES	15	0	1	0	0	1	0	0	4	2	0	4	2	0	4	2	0	4	2	0	4	2	0	4	2
TRUCK (5 TONNE)	75	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0
ORE TRUCK (10 TONNE)	100	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0

196142

HS AT
26/03/85

BEACONSFIELD PROJECT
CAPITAL EXPENDITURE AND TIMING (2)

- D.4 -

CASE 1

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	COST	1984/5	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7		
	\$	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15			
DRE TREATMENT PLANT																											
- CRUSHING PLANT	650	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- GRINDING	500	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- GRAVITY PLANT	80	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- FLOTATION PLANT	250	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- ROASTING	2200	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- CYANIDATION AND GOLD RECOVERY	800	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- TAILINGS DAM AND SANDFILL PLANT	1000	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- ANCILLARY PIPEWORK	150	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- SITE DEVELOPMENT/BUILDINGS	1000	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANCILLARY BUILDINGS/SERVICES																											
BUILDINGS																											
- MINE OFFICE	100	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CHANGE HOUSE	100	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXPLOSIVES MAGAZINE	50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- WORKSHOPS/STORE	150	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SECURITY FENCING	50	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POWER																											
- 22kV FEEDER (HEC) - PRELIM	25	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 22kV FEEDER (HEC)	500	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- STANDBY GENERATOR (2MW)	530	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR - AMAX	250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR	200	0	1	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
DEWATERING EQUIPMENT																											
- SUBMERSIBLE PUMP (RITZ 6130x8)	73	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MULTISTAGE CENTRIFUGAL PUMPS (IR 66T)	75	0	0	6	0	0	0	0	3	0	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMPS (FLYGT B2400HT)	20	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MISCELLANEOUS PUMPS	20	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- RISING MAINS	25	0	2	2	1	0	0	0	3	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0
AIR & VENTILLATION																											
- COMPRESSORS	250	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MAIN VENTILLATION FANS	20	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMMUNICATIONS																											
	15	0	0	1	0	0	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER INFRASTRUCTURE																											
LAND																											
	100	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HOUSING																											
	50	0	1	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE WATER CONTROL																											
	50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BLYTHS CREEK FLUME																											
	50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINE WATER DISCHARGE PONDS																											
	250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL CONTROL																											
	10	0	5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SEWERAGE TREATMENT																											
	50	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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	84/5	85/5	85/7	87/8	88/9	89/90	90/1	91/2	92/3	92/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
MINE DEVELOPMENT																									
HART SHAFT - ONGOING MAINTENANCE	35	35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (ORDER OF MAGNITUDE)	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE DIAMOND DRILL PROGRAMME	100	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HART SHAFT DEWATERING																									
- TENDER/MOBILISE	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HEADFRAME/WINDER	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEWATER/REHABILITATION	0	0	4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1664RL	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1663RL	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNDERGROUND DEVELOPMENT																									
UNDERGROUND EXPLORATION DRILLING	0	0	0	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION S-SHAFT - STAGE 1																									
- TENDER/FRESINK/HEADFRAME	0	0	0	0	1750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (605M)	0	0	0	0	0	4960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (500M)	0	0	0	0	0	0	1225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	0	0	0	0	0	0	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1500RL	0	0	0	0	0	0	1250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1500RL	0	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	0	0	0	0	0	0	0	1175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PRODUCTION WINDER/WINDER HOUSE	0	0	0	0	0	0	0	2150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/CONVEYANCES/LOAD STATION	0	0	0	0	0	0	0	510	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	0	0	0	0	0	0	0	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	0	0	0	0	0	0	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 1																									
- ORE & WASTE PASSES	0	0	0	0	0	0	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	0	0	0	0	0	0	0	1485	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILATION RISE	0	0	0	0	0	0	0	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION S-SHAFT - STAGE 2																									
- TENDER/MOBILISE	0	0	0	0	0	0	0	1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (265M)	0	0	0	0	0	0	0	0	2173	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (800M)	0	0	0	0	0	0	0	0	0	1960	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	0	0	0	0	0	0	0	0	0	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1320RL	0	0	0	0	0	0	0	0	0	0	1250	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1320RL	0	0	0	0	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	0	0	0	0	0	0	0	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/LOAD STATION	0	0	0	0	0	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	0	0	0	0	0	0	0	0	0	0	0	55	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1185RL	0	0	0	0	0	0	0	0	0	0	0	0	1250	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1185RL	0	0	0	0	0	0	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	0	0	0	0	0	0	0	0	0	0	0	0	0	195	0	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 2																									
- ORE & WASTE PASSES	0	0	0	0	0	0	0	0	0	0	0	450	0	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	0	0	0	0	0	0	0	0	0	0	0	743	0	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILATION RISE	0	0	0	0	0	0	0	0	0	0	0	285	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL MINE DEVELOPMENT																									
	145	945	4300	1375	1825	4960	2601	7138	2368	2086	2000	1783	1500	195	0	0	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT																									
AIR LEG ROCKDRILL	0	0	0	0	0	0	0	0	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCRAPER (15hp)	0	0	0	0	0	0	0	0	140	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RAIL LOADERS (EIMCO 12B)	0	0	0	0	0	0	0	0	60	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEVELOPMENT LOADER (CAVO 310)	0	0	0	0	0	0	0	0	55	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTERY LOCOM (3 TONNE)	0	0	0	0	0	0	0	0	135	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRABBY TRUCKS (2 TONNE)	0	0	0	0	0	0	0	0	60	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIPPING RAMP	0	0	0	0	0	0	0	6	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC RAIL EQUIPMENT	0	0	0	0	0	0	0	0	15	15	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUXILIARY FANS (5/10hp)	0	0	0	0	0	0	0	0	8	4	0	0	0	0	8	4	0	0	0	0	0	0	0	0	0
STOPE WINCH (1 TONNE)	0	0	0	0	0	0	0	0	18	18	0	0	0	18	18	0	0	0	0	0	0	0	0	0	0
SERVICE WINCH (3 TONNE)	0	0	0	0	0	0	0	0	25	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0
DIAMOND DRILL (DIAMEC 251)	0	0	0	0	0	0	0	0	90	0	0	0	0	0	90	0	0	0	0	0	0	0	0	0	0
MISC MINING EQUIPMENT	0	0	0	0	0	0	0	0	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
LIGHT VEHICLES	0	15	0	0	15	0	0	60	30	0	60	30	0	60	30	0	60	30	0	60	30	0	60	30	0
TRUCK (5 TONNE)	0	0	0	0	0	0	0	0	75	0	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0
DRE TRUCK (10 TONNE)	0	0	0	0	0	0	0	0	100	100	0	0	0	100	100	0	0	0	0	0	0	0	0	0	0
REL - CAT 950B	0	0	0	0																					

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
ORE TREATMENT PLANT																									
- CRUSHING	0	0	0	0	0	0	0	650	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRINDING	0	0	0	0	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRAVITY PLANT	0	0	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- FLOTATION PLANT	0	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROASTING	0	0	0	0	0	0	0	2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CYANIDATION AND GOLD RECOVERY	0	0	0	0	0	0	0	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- TAILINGS DAM AND SANDFILL PLANT	0	0	0	0	0	0	0	1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ANCILLARY PIPEWORK	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SITE DEVELOPMENT/BUILDINGS	0	0	0	0	0	0	0	1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ORE TREATMENT PLANT	0	0	0	0	0	0	0	6530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES																									
BUILDINGS																									
- MINE OFFICE	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CHANGE HOUSE	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXPLOSIVES MAGAZINE	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- WORKSHOPS/STORE	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SECURITY FENCING	0	0	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POWER																									
- 22KV FEEDER (HEC) - PRELIM	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 22KV FEEDER (HEC)	0	0	0	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- STANDBY GENERATOR (2MW)	0	0	530	0	0	0	0	0	0	265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR - AMAX	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR	0	200	150	0	0	0	0	150	0	0	160	0	150	0	0	0	0	0	0	0	0	0	0	0	0
DEWATERING EQUIPMENT																									
- SUBMERSIBLE PUMP (RITZ 6130x8)	0	146	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MULTISTAGE CENTRIFUGAL PUMPS (1R 6GT)	0	0	450	0	0	0	0	225	0	0	225	0	225	0	0	0	0	0	0	0	0	0	0	0	0
- PUMPS (FLYGT 82400MT)	0	0	40	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MISCELLANEOUS PUMPS	0	0	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
- RISERS MAINS	0	50	50	25	0	0	0	75	0	0	50	25	50	0	0	0	0	0	0	0	0	0	0	0	0
AIR & VENTILLATION																									
- COMPRESSORS	0	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MAIN VENTILLATION FANS	0	0	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMMUNICATIONS																									
	0	0	15	0	0	0	0	30	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL BUILDINGS/SERVICES	0	671	1245	45	120	50	520	1200	20	20	730	45	455	20	0	0									
OTHER INFRASTRUCTURE																									
LAND	0	0	0	0	100	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HOUSING	0	50	50	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE WATER CONTROL	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BLYTHS CREEK FLUME	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINE WATER DISCHARGE PONDS	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL CONTROL	0	50	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
SEWERAGE TREATMENT	0	0	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OTHER INFRASTRUCTURE	0	450	60	10	110	10	10	260	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0

AS AT
26/03/85

BERKINSFIELD PROJECT
CAPITAL EXPENDITURE (1)
(\$000 ESCALATED)

CASE 1

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	
MINE DEVELOPMENT																									
HART SHAFT - ONGOING MAINTENANCE	35	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (ORDER OF MAGNITUDE)	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE DIAMOND DRILL PROGRAMME	100	106	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HART SHAFT Dewatering																									
- TENDER/MORLISE	0	530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HEADFRAME/WINDER	0	318	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- Dewater/REHABILITATION	0	0	4496	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 186ARL	0	0	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1869RL	0	0	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
UNDERGROUND DEVELOPMENT																									
UNDERGROUND EXPLORATION DRILLING	0	0	0	553	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	0	0	0	596	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 1	0	0	0	89	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- TENDER/PRESINK/HEADFRAME	0	0	0	0	2209	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (605M)	0	0	0	0	0	6636	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (500M)	0	0	0	0	0	0	1738	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	0	0	0	0	0	0	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1500RL	0	0	0	0	0	0	1774	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1500RL	0	0	0	0	0	0	0	376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	0	0	0	0	0	0	0	1767	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PRODUCTION WINDER/WINDER HOUSE	0	0	0	0	0	0	0	3234	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/CONVEYANCES/LOAD STATION	0	0	0	0	0	0	0	767	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	0	0	0	0	0	0	0	188	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	0	0	0	0	0	0	0	0	311	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 1																									
- ORE & WASTE PASSES	0	0	0	0	0	0	0	451	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	0	0	0	0	0	0	0	2233	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	0	0	0	0	0	0	0	215	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 2																									
- TENDER/MOBILISE	0	0	0	0	0	0	0	1504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (265M)	0	0	0	0	0	0	0	0	3464	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (800M)	0	0	0	0	0	0	0	0	0	3310	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	0	0	0	0	0	0	0	0	0	213	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1320RL	0	0	0	0	0	0	0	0	0	0	2239	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1320RL	0	0	0	0	0	0	0	0	0	0	448	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	0	0	0	0	0	0	0	0	0	0	895	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/LOAD STATION	0	0	0	0	0	0	0	0	0	0	0	474	0	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	0	0	0	0	0	0	0	0	0	0	0	104	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1185RL	0	0	0	0	0	0	0	0	0	0	0	0	2515	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1185RL	0	0	0	0	0	0	0	0	0	0	0	0	503	0	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	0	0	0	0	0	0	0	0	0	0	0	0	0	416	0	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 2																									
- ORE & WASTE PASSES	0	0	0	0	0	0	0	0	0	0	0	854	0	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	0	0	0	0	0	0	0	0	0	0	0	1410	0	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	0	0	0	0	0	0	0	0	0	0	0	541	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL MINE DEVELOPMENT	145	1002	4833	1638	2303	6636	3691	10736	3775	3523	3582	3384	3018	416	0	0	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT																									
AIR LEG ROCKDRILL	0	0	0	0	0	0	0	0	80	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SCRAPER (15hp)	0	0	0	0	0	0	0	0	223	101	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RAIL LOADERS (EIMCO 12B)	0	0	0	0	0	0	0	0	96	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEVELOPMENT LOADER (CAVO 310)	0	0	0	0	0	0	0	0	88	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTERY LOCOS (3 TONNE)	0	0	0	0	0	0	0	0	215	152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GRANDY TRUCKS (2 TONNE)	0	0	0	0	0	0	0	0	96	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TIPPING RAMP	0	0	0	0	0	0	0	0	9	10	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC RAIL EQUIPMENT	0	0	0	0	0	0	0	0	24	25	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AUXILIARY FANS (5/10hp)	0	0	0	0	0	0	0	0	12	6	0	0	0	16	8	0	0	0	0	0	0	0	0	0	0
STEPE WINCH (1 TONNE)	0	0	0	0	0	0	0	0	29	30	0	0	0	38	41	0	0	0	0	0	0	0	0	0	0
SERVICE WINCH (3 TONNE)	0	0	0	0	0	0	0	0	40	0	0	0	0	53	0	0	0	0	0	0	0	0	0	0	0
DIAMOND DRILL (DIAMEC 251)	0	0	0	0	0	0	0	0	143	0	0	0	0	0	203	0	0	0	0	0	0	0	0	0	0
MISC MINING EQUIPMENT	0	0	0	0	0	0	0	0	120	127	134	142	151	160	170	180	190	202	214	227	241	255	0	0	0
LIGHT VEHICLES	0	16	0	0	19	0	0	90	48	0	107	57	0	128	68	0	152	81	0	182	96	0	0	0	0
TRUCK (5 TONNE)	0	0	0	0	0	0	0	0	120	0	0	0	0	160	0	0	0	0	0	214	0	0			

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
ORE TREATMENT PLANT																									
- CRUSHING	0	0	0	0	0	0	0	978	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRINDING	0	0	0	0	0	0	0	752	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRAVITY PLANT	0	0	0	0	0	0	0	120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- FLOTATION PLANT	0	0	0	0	0	0	0	376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROASTING	0	0	0	0	0	0	0	3309	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CYANIDATION AND GOLD RECOVERY	0	0	0	0	0	0	0	1203	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- TAILINGS DAM AND SANDFILL PLANT	0	0	0	0	0	0	0	1504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ANCILLARY PIPEWORK	0	0	0	0	0	0	0	226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SITE DEVELOPMENT/BUILDINGS	0	0	0	0	0	0	0	1504	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ORE TREATMENT PLANT	0	0	0	0	0	0	0	9972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES																									
BUILDINGS																									
- MINE OFFICE	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CHANGE HOUSE	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXPLOSIVES MAGAZINE	0	0	0	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- WORKSHOPS/STORE	0	0	0	0	0	0	0	226	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SECURITY FENCING	0	0	0	0	63	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POWER																									
- 22KV FEEDER (HEC) - PRELIM	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 22KV FEEDER (HEC)	0	0	0	0	0	0	709	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- STANDBY GENERATOR (2MW)	0	0	596	0	0	0	0	0	0	475	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR - AMAX	0	265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR	0	212	180	0	0	0	0	241	0	0	287	0	322	0	0	0	0	0	0	0	0	0	0	0	0
DEWATERING EQUIPMENT																									
- SURMERISBLE PUMP (RITZ 6130x8)	0	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MULTISTAGE CENTRIFUGAL PUMPS (1R 6GT)	0	0	596	0	0	0	0	338	0	0	403	0	453	0	0	0	0	0	0	0	0	0	0	0	0
- PUMPS (FLYGT B2400HT)	0	0	45	0	0	0	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MISCELLANEOUS PUMPS	0	0	0	24	25	27	28	30	32	34	36	38	40	43	45	48	51	54	57	61	64	68	0	0	0
- RISING MAINS	0	53	56	30	0	0	0	113	0	0	90	47	101	0	0	0	0	0	0	0	0	0	0	0	0
AIR & VENTILLATION																									
- COMPRESSORS	0	0	0	0	0	0	0	376	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MAIN VENTILLATION FANS	0	0	0	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- COMMUNICATIONS	0	0	17	0	0	0	0	45	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL BUILDINGS/SERVICES	0	711	1399	54	151	80	738	1805	32	34	1343	85	915	43	45	48	51	54	57	61	64	68	0	0	0
OTHER INFRASTRUCTURE																									
LAND																									
- HOUSING	0	53	56	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SURFACE WATER CONTROL	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- BLYTHS CREEK FLUME	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MINE WATER DISCHARGE PONDS	0	265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ENVIRONMENTAL CONTROL	0	53	11	12	13	13	14	15	16	17	18	19	20	21	23	24	25	27	29	30	32	34	36	0	0
- SEWERAGE TREATMENT	0	0	0	0	0	0	0	75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OTHER INFRASTRUCTURE	0	477	67	12	139	13	16	391	16	17	18	19	20	21	23	24	25	27	29	30	32	34	36	0	0

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	84/5	85/5	86/7	87/8	88/9	89/30	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
CAPITAL EXPENDITURE SUMMARY																									
MINE DEVELOPMENT	145	945	4300	1375	1825	4960	2601	7138	2368	2085	2000	1783	1500	195	0	0	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT	0	15	0	0	15	0	0	65	1082	525	143	105	75	501	317	75	135	105	390	235	105	75	0	0	0
ORE TREATMENT PLANT	0	0	0	0	0	0	0	5530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES	0	671	1245	45	120	60	520	1200	20	20	750	45	455	20	20	20	20	20	20	20	20	20	20	0	0
OTHER INFRASTRUCTURE	0	450	60	10	110	10	10	250	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0
DIRECT CAPITAL	145	2091	5505	1430	2070	5030	3131	15294	3480	2641	2902	1943	2040	725	347	105	165	135	420	265	135	105	10	0	0
DESIGN & PROJECT MANAGEMENT																									
- 15% ON DIRECT CAPITAL (EXC MINING EQUIPMENT)	310	841	215	308	755	470	2264	360	317	414	276	295	34	5	5	5	5	5	5	5	5	5	2	0	0
CONTINGENCY																									
- 20% ON MINE DEVELOPMENT	29	189	850	275	365	992	520	1428	474	417	400	357	300	39	0	0	0	0	0	0	0	0	0	0	0
- 5% ON MINING EQUIPMENT	0	1	0	0	1	0	0	3	54	26	7	5	4	25	16	4	7	5	19	12	5	4	0	0	0
- 15% ON ORE PLANT/BUILDINGS/INFRASTRUCTURE	0	168	195	9	35	11	60	1213	5	5	114	8	70	5	5	5	5	5	5	5	5	5	2	0	0
TOTAL CAPITAL	484	3280	6875	2021	3225	6502	6015	18298	4329	3503	3599	2508	2447	799	372	118	181	149	448	285	149	115	12	0	0
CAPITAL - TAX DEPRECIATION SUMMARY																									
MINE DEVELOPMENT - 10% S/L+	316	1779	5355	1924	2934	6342	4192	8921	3154	2803	2567	2355	1829	234	0	0	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT - 20% S/L+	0	16	0	0	16	0	0	65	1136	591	150	110	75	525	333	79	142	110	409	247	110	79	0	0	0
ORE TREATMENT PLANT - 20% S/L+	0	0	0	0	0	0	0	672	5152	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 10% S/L+	0	0	0	0	0	0	0	323	2473	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDING/SERVICES - 20% S/L+	97	930	1438	55	32	72	143	923	26	135	859	120	526	26	26	26	26	26	26	25	25	23	0	0	0
- 10% S/L+	4	29	0	15	115	75	535	460	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER INFRASTRUCTURE - 10% S/L+	68	527	71	28	128	13	51	301	15	13	13	13	13	13	13	13	13	13	13	13	13	13	12	0	0
TOTAL CAPITAL	484	3280	6875	2021	3225	6502	6015	18298	4329	3503	3599	2508	2447	799	372	118	191	149	448	295	149	115	12	0	0
DEPRECIATION																									
20% S/L DEPRECIATION																									
- OPENING BALANCE	0	97	1042	2481	2535	2583	2655	3470	9615	8621	7015	5537	3225	1167	1100	906	641	451	323	516	568	474	359	170	0
- EXPENDITURE	97	945	1438	55	48	72	615	6144	1162	686	1019	230	609	552	353	165	166	136	435	272	136	102	0	0	0
- DEPRECIATION	0	0	0	0	0	0	0	0	2155	2253	2496	2542	2563	619	551	370	358	264	241	223	220	216	189	0	0
- CLOSING BALANCE	97	1042	2481	2535	2583	2655	3470	9615	8621	7015	5537	3225	1167	1100	906	641	451	323	516	568	474	359	170	0	0
10% S/L DEPRECIATION																									
- OPENING BALANCE	0	71	627	637	740	983	1071	2079	5312	4793	4272	3750	3226	2702	2176	1648	1120	59	59	59	59	59	59	59	57
- EXPENDITURE	71	555	71	43	243	68	1008	3233	12	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	0
- DEPRECIATION	0	0	0	0	0	0	0	0	532	534	535	535	538	539	540	542	543	544	13	13	13	13	13	13	0
- CLOSING BALANCE	71	627	697	740	983	1071	2079	5312	4793	4272	3750	3226	2702	2176	1648	1120	590	59	59	59	59	59	59	57	0
10% S/L DEPRECIATION (ON EXPENDITURE)																									
- OPENING BALANCE	0	284	1854	6474	7459	9161	13637	15544	21287	20949	19979	18638	16936	15052	11742	8491	5875	3677	2372	1362	673	250	25	0	0
- EXPENDITURE	316	1779	5366	1924	2934	6342	4192	8921	3154	2803	2667	2355	1829	234	0	0	0	0	0	0	0	0	0	0	0
- DEPRECIATION	32	209	745	938	1232	1865	2285	3177	3493	3773	4008	4667	3713	3544	3251	2517	2157	1385	930	710	443	205	25	0	0
- CLOSING BALANCE	284	1854	6474	7459	9161	13637	15544	21287	20949	19979	18638	16936	15052	11742	8491	5875	3677	2372	1362	673	250	25	0	0	0
DEPRECIATION SUMMARY																									
- OPENING BALANCE	0	452	3522	9552	10735	12728	17364	21033	36214	34363	31266	27925	23308	16921	15018	11045	7635	4718	2754	1959	1293	762	441	117	0
- EXPENDITURE	484	3280	6875	2021	3225	6502	6015	18298	4329	3593	3699	2608	2447	799	372	118	181	149	448	286	149	115	12	0	0
- DEPRECIATION	32	209	745	938	1232	1865	2285	3177	6181	6599	7040	7145	6914	4702	4344	3528	3098	2113	1243	945	655	436	225	0	0
- CLOSING BALANCE	452	3522	9652	10775	12728	17364	21093	36214	34363	31266	27925	23308	16921	15018	11045	7635	4718	2754	1959	1295	762	441	117	0	0

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8		
	-0	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
CAPITAL EXPENDITURE SUMMARY																										
MINE DEVELOPMENT	145	1002	4833	1638	2303	6636	3691	10736	3775	3523	3582	3384	3018	416	0	0	0	0	0	0	0	0	0	0	0	
MINING EQUIPMENT	0	16	0	0	19	0	0	99	1724	886	255	199	151	1068	716	180	343	283	1113	711	337	255	0	0	0	
ORE TREATMENT PLANT	0	0	0	0	0	0	0	9972	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANCILLARY BUILDINGS/SERVICES	0	711	1399	54	151	80	738	1805	32	34	1343	85	915	43	45	48	51	54	57	61	64	68	0	0	0	
OTHER INFRASTRUCTURE	0	477	67	12	139	13	14	391	16	17	18	19	20	21	23	24	25	27	29	30	32	34	36	0	0	
DIRECT CAPITAL																										
DESIGN & PROJECT MANAGEMENT	145	2206	6300	1703	2612	6730	4443	23002	5546	4460	5198	3688	4104	1547	784	252	419	364	1199	802	433	357	36	0	0	
- 15% ON DIRECT CAPITAL (EXC MINING EQUIPMENT)	328	945	255	389	1010	666	3435	573	536	741	523	593	72	10	11	11	12	13	14	14	15	5	0	0	0	
CONTINGENCY																										
- 20% ON MINE DEVELOPMENT	29	200	967	328	461	1327	738	2147	755	705	716	677	604	83	0	0	0	0	0	0	0	0	0	0	0	
- 5% ON MINING EQUIPMENT	0	1	0	0	1	0	0	5	86	44	13	10	8	53	36	9	17	14	56	36	17	13	0	0	0	
- 15% ON ORE PLANT/BUILDINGS/INFRASTRUCTURE	0	178	220	10	44	14	113	1825	7	8	204	16	140	10	10	11	11	12	13	14	14	15	5	0	0	
TOTAL CAPITAL																										
	502	3530	7742	2429	4127	8738	8729	27553	6931	5958	6655	4983	4928	1704	841	283	460	403	1281	865	480	390	41	0	0	

CAPITAL - TAX DEPRECIATION SUMMARY																										
MINE DEVELOPMENT - 10% S/L+	324	1927	6045	2311	3759	8517	6039	13449	5058	4765	4806	4514	3684	499	0	0	0	0	0	0	0	0	0	0	0	
MINING EQUIPMENT - 20% S/L+	0	17	0	0	20	0	0	104	1810	931	268	209	158	1121	752	189	360	297	1169	747	354	268	0	0	0	
ORE TREATMENT PLANT - 20% S/L+	0	0	0	0	0	0	1011	7749	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- 10% S/L+	0	0	0	0	0	0	485	3719	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ANCILLARY BUILDING/SERVICES - 20% S/L+	103	997	1817	65	41	97	213	1388	42	240	1558	236	1059	56	59	63	66	71	75	79	84	78	0	0	0	
- 10% S/L+	4	30	0	19	145	106	906	692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
OTHER INFRASTRUCTURE - 10% S/L+	72	559	79	35	162	18	75	452	21	22	23	25	26	28	30	31	33	35	37	40	42	45	41	0	0	
TOTAL CAPITAL																										
	502	3530	7742	2429	4127	8738	8729	27553	6931	5958	6655	4983	4928	1704	841	283	460	403	1281	865	480	390	41	0	0	

DEPRECIATION																										
20% S/L DEPRECIATION																										
- OPENING BALANCE	0	103	1117	2734	2800	2860	2957	4181	13422	12219	10101	8273	4974	2205	2215	1931	1402	1052	813	1436	1639	1416	1118	548	548	
- EXPENDITURE	103	1014	1617	65	61	97	1224	9241	1852	1171	1826	445	1218	1177	811	252	427	367	1243	826	438	346	0	0	0	
- DEPRECIATION	0	0	0	0	0	0	0	0	3055	3289	3654	3743	3987	1167	1095	780	777	607	620	623	660	644	571	0	0	
- CLOSING BALANCE	103	1117	2734	2800	2860	2957	4181	13422	12219	10101	8273	4974	2205	2215	1931	1402	1052	813	1436	1639	1416	1118	548	548		
10% S/L DEPRECIATION																										
- OPENING BALANCE	0	76	665	744	797	1104	1228	2694	7557	6820	6082	5343	4603	3862	3120	2376	1631	885	137	145	154	163	173	178	178	
- EXPENDITURE	76	589	79	53	307	124	1466	4863	21	22	23	25	26	28	30	31	33	35	37	40	42	45	41	0	0	
- DEPRECIATION	0	0	0	0	0	0	0	0	758	760	762	765	767	770	773	776	780	783	29	31	33	35	36	0	0	
- CLOSING BALANCE	76	665	744	797	1104	1228	2694	7557	6820	6082	5343	4603	3862	3120	2376	1631	885	137	145	154	163	173	178	178		
10% S/L DEPRECIATION (ON EXPENDITURE)																										
- OPENING BALANCE	0	292	1994	7210	8459	10782	17011	20158	29370	29685	29230	28369	26956	24950	19940	14806	10525	6848	4515	2688	1338	468	50	0	0	
- EXPENDITURE	324	1927	6045	2311	3759	8517	6039	13449	5058	4765	4806	4514	3684	499	0	0	0	0	0	0	0	0	0	0	0	
- DEPRECIATION	32	225	830	1061	1437	2288	2892	4237	4743	5220	5668	5926	5690	5509	5133	4281	3677	2333	1827	1350	870	418	50	0		
- CLOSING BALANCE	292	1994	7210	8459	10782	17011	20158	29370	29685	29230	28369	26956	24950	19940	14806	10525	6848	4515	2688	1338	468	50	0	0		

DEPRECIATION SUMMARY																										
- OPENING BALANCE	0	470	3775	10688	12056	14747	21196	27033	50349	48724	45414	41984	36533	31017	25274	19114	13558	8784	5465	4269	3131	2048	1341	726	726	
- EXPENDITURE	502	3530	7742	2429	4127	8738	8729	27553	6931	5958	6655	4983	4928	1704	841	283	460	403	1281	865	480	390	41	0	0	
- DEPRECIATION	32	225	830	1061	1437	2288	2892	4237	4743	5220	5668	5926	5690	5509	5133	4281	3677	2333	1827	1350	870	418	50	0		
- CLOSING BALANCE	470	3775	10688	12056	14747	21196	27033	50349	48724	45414	41984	36533	31017	25274	19114	13558	8784	5465	4269	3131	2048	1341	726	726		

AS AT
26/03/85

REACONSFIELD PROJECT
PRODUCTIVITY AND MINE OPERATING COST PARAMETERS

CASE 1

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
LABOUR PRODUCTIVITY																									
MINE PRODUCTION																									
- WORKING DAYS PER YEAR	0	0	0	0	0	0	0	0	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	0
- SHIFTS PER DAY	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
- SHIFTS PER YEAR	0	0	0	0	0	0	0	0	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	0
DIAMOND DRILLING																									
- #/MAN SHIFT	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0	0	0
- MAN SHIFTS/DAY	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0
- # DRILLED /YEAR	0	0	0	0	0	0	0	0	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	0	0	0
STOPING																									
- TONNES/MAN SHIFT	0	0	0	0	0	0	0	0	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	0
DEVELOPMENT - DRIVE & CROSS-CUT																									
- #/MAN SHIFT	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
- MAN SHIFT/DAY	0	0	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0	0	0
- # DRIVE & CROSS-CUT/YEAR	0	0	0	0	0	0	0	0	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	0	0	0
DEVELOPMENT - RISING																									
- #/MAN SHIFT	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0
- MAN SHIFT/DAY	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0
- # RISE/YEAR	0	0	0	0	0	0	0	0	350	350	350	350	350	350	350	350	350	350	350	350	350	350	0	0	0
MINE OPERATING COST PARAMETERS																									
DIAMOND DRILLING (\$/M)																									
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	0.0	0.0	0.0
STOPING - CUT & FILL (\$/TONNE)																									
- EXPLOSIVES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0
- GROUND SUPPORT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.0
- DRILL STEEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
- FILL PREP	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
- MISC CONSUMABLES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0
TOTAL STOPING - CUT & FILL (\$/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	0.0
DEVELOPMENT - DRIVE & CROSS CUT (\$/M)																									
- EXPLOSIVES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	0.0	0.0	0.0
- GROUND SUPPORT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	0.0
- DRILL STEEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	0.0
- SERVICES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	0.0
- MISC CONSUMABLES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	0.0
TOTAL DEVELOPMENT - DRIVE & CROSS CUT (\$/M)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	0.0
DEVELOPMENT - RISING (\$/M)																									
- EXPLOSIVES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	0.0	0.0
- GROUND SUPPORT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	0.0
- DRILL STEEL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	0.0
- SERVICES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	0.0
- MISC CONSUMABLES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	0.0
TOTAL DEVELOPMENT - RISING (\$/M)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	0.0
MINING SERVICES (\$/TONNE)																									
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8
MINE OPERATING COSTS (\$000)																								
DIAMOND DRILLING (\$000)	0	0	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0
STOPPING - CUT & FILL																								
- EXPLOSIVES	0	0	0	0	0	0	0	0	49	148	165	165	165	165	165	165	165	165	165	165	165	165	165	0
- GROUND SUPPORT	0	0	0	0	0	0	0	0	73	219	244	244	244	244	244	244	244	244	244	244	244	244	244	0
- DRILL STEEL	0	0	0	0	0	0	0	0	90	270	300	300	300	300	300	300	300	300	300	300	300	300	300	0
- FILL PREP	0	0	0	0	0	0	0	0	20	61	67	67	67	67	67	67	67	67	67	67	67	67	67	0
- MISC CONSUMABLES	0	0	0	0	0	0	0	0	58	175	194	194	194	194	194	194	194	194	194	194	194	194	194	0
TOTAL STOPPING - CUT & FILL (\$000)	0	0	0	0	0	0	0	0	291	873	970	970	970	970	970	970	970	970	970	970	970	970	970	0
DEVELOPMENT - DRIVE & CROSS-CUT																								
- EXPLOSIVES	0	0	0	0	0	0	0	0	102	102	102	102	102	102	102	102	102	102	102	102	102	0	0	0
- GROUND SUPPORT	0	0	0	0	0	0	0	0	43	43	43	43	43	43	43	43	43	43	43	43	43	0	0	0
- DRILL STEEL	0	0	0	0	0	0	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	0	0	0
- SERVICES	0	0	0	0	0	0	0	0	112	112	112	112	112	112	112	112	112	112	112	112	112	0	0	0
- MISC CONSUMABLES	0	0	0	0	0	0	0	0	93	93	93	93	93	93	93	93	93	93	93	93	93	0	0	0
TOTAL DEVELOPMENT - DRIVE & CROSS CUT (\$000)	0	0	0	0	0	0	0	0	465	465	465	465	465	465	465	465	465	465	465	465	465	0	0	0
DEVELOPMENT - RISING																								
- EXPLOSIVES	0	0	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	16	16	0	0	0
- GROUND SUPPORT	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	0	0	0
- DRILL STEEL	0	0	0	0	0	0	0	0	14	14	14	14	14	14	14	14	14	14	14	14	14	0	0	0
- SERVICES	0	0	0	0	0	0	0	0	23	23	23	23	23	23	23	23	23	23	23	23	23	0	0	0
- MISC CONSUMABLES	0	0	0	0	0	0	0	0	14	14	14	14	14	14	14	14	14	14	14	14	14	0	0	0
TOTAL DEVELOPMENT - RISING (\$000)	0	0	0	0	0	0	0	0	72	72	72	72	72	72	72	72	72	72	72	72	72	0	0	0
MINING SERVICES (\$000)	0	0	0	0	0	0	0	0	22	67	75	75	75	75	75	75	75	75	75	75	75	75	75	0
MINING COST SUMMARY (\$/T)																								
DIAMOND DRILLING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	1.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0
STOPPING - CUT & FILL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	0.0
DEVELOPMENT - DRIVE & CROSS-CUT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.7	6.9	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	0.0	0.0	0.0
DEVELOPMENT - RISING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0
MINING SERVICES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
TOTAL MINING COST (\$/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	42.3	23.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	13.9	13.9	0.0
ENGINEERING (MINE MAINTENANCE) (\$000)																								
MINING EQUIPMENT																								
- AIR LES ROCKDRILL	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	67.5	67.5	0.0
- SCRAPER (15hp)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	0.0
- RAIL LOADERS (EIMCO 128)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	12.5	12.5
- DEVELOPMENT LOADER (CAVO 310)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	14.0	14.0
- BATTERY LOCOS (3 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	0.0
- GRANBY TRUCKS (2 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	0.0
- MISC RAIL EQUIPMENT	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	0.0
- AUXILIARY FANS (5/10hp)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	0.0
- STOPE WINCH (1 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	0.0
- SERVICE WINCH (3 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	0.0
- LIGHT VEHICLES	0.0	5.0	5.0	5.0	5.0	5.0	5.0	20.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	0.0
- TRUCK (5 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	0.0
- DRE TRUCK (10 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	0.0
- FEL (CAT 950B)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	0.0
TOTAL MINING EQUIPMENT MAINTENANCE (\$000)	0.0	5.0	5.0	5.0	5.0	5.0	5.0	20.0	284.0	423.2	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	330.5	330.5	0.0
ENGINEERING (SERVICES)																								
- HOISTING (ROPES/LINERS)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	0.0
- PUMPS (1R 66T)	0.0	0.0	120.0	120.0	120.0	120.0	120.0	180.0	180.0	240.0	240.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	0.0
- PUMPS (FLYGT)	0.0	0.0	10.0	10.0	10.0	10.0	10.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	0.0
- PUMPS (MISCELLANEOUS)	0.0	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	0.0
- COMPRESSOR	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
- STANDBY GENERATOR	0.0	0.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	0.0
- MAIN VENTILATION FANS	0.0	0.0	0.0	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
- BUILDINGS/HOUSES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	0.0
- CONTRACT MAINTENANCE	0.0	0.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	0.0
TOTAL ENGINEERING (SERVICES) (\$000)	0.0	0.0	238.0	238.0	238.0	242.0	242.0	312.0	422.0	422.0	482.0	482.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	529.0	529.0	0.0

25 AT
25/03/85

BEACONSFIELD PROJECT
MINE OPERATING COSTS (2)

CASE 1 - D.13 (155)

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8		
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
POWER (EXCL DRE TREATMENT PLANT)																										

CONNECTED LOAD (KW)																										
- PUMPS (RITZ)	0	0	940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
- PUMPS (IR 6GT)	0	0	900	900	900	900	900	2700	2700	2700	2700	3600	3600	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500		
- PUMPS (FLYGT)	0	0	0	180	180	180	180	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360		
- PUMP CONTINGENCY	0	0	92	54	54	54	54	153	153	153	153	198	198	243	243	243	243	243	243	243	243	243	243	243		
TOTAL PUMPS (KW)	0	0	1932	1134	1134	1134	1134	3213	3213	3213	3213	4158	4158	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103		
OTHER (KW)																										
- PRODUCTION WINDER	0	0	0	0	0	0	0	0	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400		
- HART SHAFT WINDER	0	0	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165		
- OVERHEAD CRANE	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
- COMPRESSOR	0	0	0	0	0	0	0	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625		
- VENTILATION	0	0	50	50	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
- SURFACE LIGHTING	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
- WELDING	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
- UNDERGROUND LIGHTING	0	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
- SCRAPERS	0	0	0	0	0	0	0	0	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60		
- DIAMOND DRILL	0	0	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
- TRANSFORMER LOSSES	0	0	50	50	50	50	50	50	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80		
- CONTINGENCY	0	0	35	38	38	38	38	105	154	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157		
TOTAL OTHER (KW)	0	0	385	418	418	418	418	1160	1699	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732		
PEAK DEMAND (KW)	0	0	2240	1468	1468	1468	1468	4141	4573	4599	4599	5544	5544	6489	6489	6489	6489	6489	6489	6489	6489	6489	6489	6489		
TARIFF @ \$/KW/CTR	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70		
TOTAL DEMAND COST (\$000)	0.0	0.0	203.4	133.3	133.3	133.3	133.3	376.0	415.2	417.6	417.6	503.4	503.4	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2		
CONSUMPTION (MWH)																										
- PUMPS (RITZ)	0	0	7740	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
- PUMPS (IR 6GT)	0	0	3750	5800	5800	5800	5800	13800	13800	13800	13800	18400	18400	23000	23000	23000	23000	23000	23000	23000	23000	23000	23000	23000		
- PUMPS (FLYGT)	0	0	0	800	800	800	800	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600		
- PUMP CONTINGENCY	0	0	574	330	330	330	330	770	770	770	770	1000	1000	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230		
TOTAL PUMPS (MWH)	0	0	12064	6930	6930	6930	6930	16170	16170	16170	16170	21000	21000	25830	25830	25830	25830	25830	25830	25830	25830	25830	25830	25830		
OTHER (MWH)																										
- PRODUCTION WINDER	0	0	0	0	0	0	0	0	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150		
- HART SHAFT WINDER	0	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
- OVERHEAD CRANE	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
- COMPRESSOR	0	0	0	0	0	0	0	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875		
- VENTILATION	0	0	440	440	440	440	440	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880	880		
- SURFACE LIGHTING	0	0	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110		
- WELDING	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
- UNDERGROUND LIGHTING	0	0	0	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180		
- SCRAPERS	0	0	0	0	0	0	0	0	45	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
- DIAMOND DRILL	0	0	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45		
- TRANSFORMER LOSSES	0	0	440	440	440	440	440	440	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700		
- CONTINGENCY	0	0	111	129	125	125	125	357	407	411	411	411	411	411	411	411	411	411	411	411	411	411	411	411		
TOTAL OTHER (MWH)	0	0	1226	1424	1380	1380	1380	3927	4477	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526		
TOTAL CONSUMPTION (MWH)	0	0	13291	8354	8310	8310	8310	20097	20647	20696	20696	25526	25526	30356	30356	30356	30356	30356	30356	30356	30356	30356	30356	30356		
TARIFF @ \$/KWH	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033		
TOTAL CONSUMPTION COST (\$000)	0.0	0.0	438.6	275.7	274.2	274.2	274.2	663.2	681.4	683.0	683.0	842.4	842.4	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8		

TOTAL POWER COST (EXCL DRE TREATMENT PLANT)	0.0	0.0	642.0	409.0	407.6	407.6	407.6	1039.2	1096.5	1100.6	1100.6	1345.8	1345.8	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0	1591.0		

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ORE TREATMENT PLANT REAGENT/MATERIALS/POWER CONSUMPTION																								
- GRINDING BALLS & LINERS (KG/T ORE FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
- POWER CONSUMPTION (KWH/T ORE FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
- FLOTATION LIME (KG/T FLOTATION FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
- FLOTATION COLLECTOR (GM/T FLOTATION FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
- FLOTATION FROTHER (GM/T FLOTATION FEED)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
- SODIUM CYANIDE (KG/T CALCINE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
- CYANIDATION LIME (KG/T CALCINE)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
ORE TREATMENT PLANT - REAGENT/MATERIAL COST (\$/UNIT) AND CONSUMPTION																								
- GRINDING BALLS & LINERS (TONNES)	1200.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5	102.0	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5
- POWER (C/KWH AND MWH)	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1725.0	5100.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0
- FLOTATION LIME (TONNES)	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	22.0	67.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
- FLOTATION COLLECTOR (TONNES)	2500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
- FLOTATION FROTHER (TONNES)	2000.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
- SODIUM CYANIDE (TONNES)	1500.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.3	28.9	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
- CYANIDATION LIME (TONNES)	130.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
ORE TREATMENT PLANT REAGENT/MATERIALS COSTS (\$000 NON ESC)																								
- GRINDING BALLS & LINERS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	41.4	122.4	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
- FLOTATION LIME	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
- FLOTATION COLLECTOR	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
- FLOTATION FROTHER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
- SODIUM CYANIDE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.0	43.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
- CYANIDATION LIME	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
ORE PLANT REAGENT/MATERIAL COST (\$000 NON ESC)																								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.4	190.2	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8
ORE TREATMENT PLANT OPERATING COSTS (\$000 NON ESC)																								
- REAGENTS/MATERIALS	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	63.4	190.2	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8
- POWER	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	64.9	176.3	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6
- SPARES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	45.0	135.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
- ASSAYING	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	68.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
- SUNDRIES	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	34.5	102.0	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5
ORE PLANT OPERATING COSTS (\$000 NON ESC)																								
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	231.9	672.5	741.9	741.9	741.9	741.9	741.9	741.9	741.9	741.9	741.9	741.9	741.9	741.9	741.9
ORE PLANT OPERATING COSTS (\$/T ORE TREATED)																								
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.08	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89	9.89

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ORE TREATMENT PLANT																								
STAFF																								
- PLANT SUPERINTENDENT	50	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- PLANT METALLURGIST/FOREMAN	35	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- CHEMIST	30	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- SHIFT FOREMEN	30	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
AWARD																								
- SAMPLE PREP/ASSAYERS	25	0	0	0	0	0	0	0	3	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5
- METALLURGICAL CLERK/SECRETARY	17	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- CRUSHER OPERATORS	25	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- GRINDING/FLOTATION/FILTRATION OPS	25	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
- ROASTER OPERATORS	25	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
- CYANIDATION/TAILINGS DISPOSAL OPS	25	0	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
- DESORPTION/GOLD ROOM OPS	25	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- LABOURERS	25	0	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
- RELIEF OPERATORS	25	0	0	0	0	0	0	0	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
TOTAL METALLURGICAL STAFF	0	0	0	0	0	0	0	2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
TOTAL METALLURGICAL AWARD	0	0	0	0	0	0	0	0	25	28	29	29	29	29	29	29	29	29	29	29	29	29	29	29
ENGINEERING/SERVICES																								
TECHNICAL & SUPERVISION																								
- CHIEF ENGINEER	55	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- MECHANICAL FOREMAN	35	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- ELECTRICAL FOREMAN	35	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
MAINTENANCE																								
- ELECTRICAL TRADESMEN	25	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
- MECHANICAL TRADESMEN (MINE)	25	0	0	0	0	0	0	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0
- MECHANICAL TRADESMEN (ORE PLANT)	25	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
- TRADES ASSISTANTS	23	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
- ROCK DRILL FITTERS	25	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
- PUMP OPERATORS	23	0	0	3	3	3	3	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
- RELIEF TRADESMEN	25	0	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	2
TOTAL ENGINEERING STAFF	0	0	1	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
TOTAL ENGINEERING AWARD	0	0	0	3	3	3	3	6	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	13
TOTAL MINE WORKFORCE	0	0	2	7	7	7	7	10	25	126	154	160	160	160	160	160	160	160	160	160	160	160	146	138

84/5 85/6 86/7 87/8 88/9 89/90 90/1 91/2 92/3 93/4 94/5 95/6 96/7 97/8 98/9 99/00 00/1 01/2 02/3 03/4 04/5 05/6 06/7 07/8
-8 -7 -6 -5 -4 -3 -2 -1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

OPERATING COST SUMMARY (\$000 NON ESC)

STOPPING - CUT & FILL	0	0	0	0	0	0	0	0	291	873	970	970	970	970	970	970	970	970	970	970	970	970	970	0
DEVELOPMENT - DRIVE & CROSS CUT	0	0	0	0	0	0	0	0	466	466	466	466	466	466	466	466	466	466	466	466	466	466	466	0
DEVELOPMENT - RISING	0	0	0	0	0	0	0	0	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	0
MINING SERVICES	0	0	0	0	0	0	0	0	22	67	75	75	75	75	75	75	75	75	75	75	75	75	75	0
ENGINEERING - MINE EQUIPMENT	0	5	5	5	5	5	5	20	284	423	425	425	425	425	425	425	425	425	425	425	425	425	425	0
ENGINEERING - SERVICES	0	0	238	238	238	242	242	312	422	422	482	542	542	542	542	542	542	542	542	542	542	542	542	0
POWER	0	0	642	409	408	408	408	1039	1097	1101	1101	1346	1346	1591	1591	1591	1591	1591	1591	1591	1591	1591	1591	0
ORE TREATMENT PLANT	0	0	0	0	0	0	0	0	232	672	742	742	742	742	742	742	742	742	742	742	742	742	742	0
DIRECT LABOUR	0	0	0	0	0	0	92	241	296	296	296	296	296	296	296	296	296	296	296	296	296	296	296	0
- ADMINISTRATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MINING	0	55	110	110	110	110	145	243	1878	2678	2858	2858	2858	2858	2858	2858	2858	2858	2858	2858	2858	2858	2858	0
- METALLURGICAL	0	0	0	0	0	0	0	85	852	927	952	952	952	952	952	952	952	952	952	952	952	952	952	0
- ENGINEERING	0	55	123	123	123	123	123	268	630	630	630	630	630	630	630	630	630	630	630	630	630	630	630	0
EMPLOYEE ON-COSTS	0	13	57	57	57	57	72	132	779	977	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	0
ADMINISTRATION	0	0	0	0	0	0	0	0	795	795	795	795	795	795	795	795	795	795	795	795	795	795	795	0
TOTAL OPERATING COST (\$000 NON ESC)	0	128	1175	942	941	945	1086	2339	8116	10399	10886	11131	11191	11436	11436	11436	11436	11436	11436	11436	10168	9932	0	

OPERATING COST SUMMARY (\$000 ESC)

STOPPING - CUT & FILL	0	0	0	0	0	0	0	0	464	1474	1737	1841	1952	2069	2193	2325	2464	2612	2768	2935	3111	3298	3496	0
DEVELOPMENT - DRIVE & CROSS CUT	0	0	0	0	0	0	0	0	743	787	835	884	938	994	1054	1117	1184	1255	1330	1410	1494	0	0	0
DEVELOPMENT - RISING	0	0	0	0	0	0	0	0	115	122	129	137	145	154	163	173	183	194	205	218	231	0	0	0
MINING SERVICES	0	0	0	0	0	0	0	0	36	114	134	142	151	160	170	180	190	202	214	227	241	255	270	0
ENGINEERING - MINE EQUIPMENT	0	5	6	6	6	7	7	30	453	714	761	807	855	907	961	1019	1079	1145	1213	1286	1363	1425	1493	0
ENGINEERING - SERVICES	0	0	268	283	300	324	343	469	673	713	863	915	1091	1156	1225	1299	1377	1460	1547	1640	1738	1799	1907	0
POWER	0	0	722	487	515	546	579	1563	1749	1860	1972	2555	2708	3394	3597	3814	4041	4285	4541	4814	5102	5409	5734	0
ORE TREATMENT PLANT	0	0	0	0	0	0	0	0	370	1136	1329	1408	1493	1583	1678	1778	1885	1998	2117	2245	2379	2523	2674	0
DIRECT LABOUR	0	0	0	0	0	0	130	362	471	499	529	561	595	630	668	708	751	796	843	894	948	1005	1065	0
- ADMINISTRATION	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MINING	0	58	124	131	139	147	206	365	2994	4523	5119	5424	5750	6096	6462	6851	7259	7697	8157	8648	9166	8051	8534	0
- METALLURGICAL	0	0	0	0	0	0	0	128	1357	1565	1704	1806	1914	2030	2151	2281	2417	2562	2716	2879	3051	3235	3429	0
- ENGINEERING	0	58	138	146	155	164	174	402	1004	1064	1128	1196	1268	1344	1424	1510	1600	1697	1798	1906	2020	2142	1550	0
EMPLOYEE ON-COSTS	0	13	65	68	73	77	102	198	1242	1650	1832	1941	2058	2182	2312	2452	2598	2754	2919	3095	3280	3026	3078	0
ADMINISTRATION	0	0	0	0	0	0	0	0	1267	1343	1424	1509	1600	1696	1797	1906	2019	2141	2269	2406	2550	2703	2865	0
TOTAL OPERATING COST (\$000 ESC)	0	135	1321	1122	1187	1264	1541	3517	12936	17564	19496	21126	22516	24392	25856	27411	29047	30796	32637	34604	36674	34571	35795	0

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
REVENUE																								
COPPER CONCENTRATE PRODUCTION																								
- COPPER CONCENTRATE (TONNES)	0	0	0	0	0	0	0	0	1062	3187	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	0
- COPPER CONTENT (TONNES)	0	0	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0
- GOLD CONTENT (000 GM)	0	0	0	0	0	0	0	0	67	202	225	225	225	225	225	225	225	225	225	225	225	225	225	0
- GOLD CONTENT (OZ)	0	0	0	0	0	0	0	0	2170	6511	7235	7235	7235	7235	7235	7235	7235	7235	7235	7235	7235	7235	7235	0
- SILVER CONTENT (000 GM)	0	0	0	0	0	0	0	0	30	90	100	100	100	100	100	100	100	100	100	100	100	100	100	0
- SILVER CONTENT (OZ)	0	0	0	0	0	0	0	0	965	2894	3215	3215	3215	3215	3215	3215	3215	3215	3215	3215	3215	3215	3215	0
BULLION PRODUCTION																								
- GOLD BULLION (000 GM)	0	0	0	0	0	0	0	0	341	1023	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	0
- GOLD BULLION (OZ)	0	0	0	0	0	0	0	0	10968	32904	36559	36559	36559	36559	36559	36559	36559	36559	36559	36559	36559	36559	36559	0
- SILVER BULLION (000 GM)	0	0	0	0	0	0	0	0	29	88	98	98	98	98	98	98	98	98	98	98	98	98	98	0
- SILVER BULLION (OZ)	0	0	0	0	0	0	0	0	947	2840	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	0
PRICES																								
- COPPER (A\$/TONNE)	2000	2120	2248	2382	2524	2676	2838	3008	3188	3378	3582	3796	4024	4266	4522	4794	5080	5386	5708	6052	6414	6800	7208	0
- GOLD (A\$/OZ)	400	424	450	476	505	535	568	602	638	676	716	759	805	853	904	959	1016	1077	1142	1210	1283	1360	1442	0
- SILVER (A\$/OZ)	10.0	10.6	11.2	11.9	12.6	13.4	14.2	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	34.0	36.0	0.0
REFINERY LOSSES - COPPER CONCENTRATE																								
- COPPER LOSSES (% UNITS)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- GOLD (%)	0	0	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0
- SILVER (%)	0	0	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0
TRANSPORT & REFINERY CHARGES - COPPER CONCENTRATE																								
- COPPER (\$/T CONCENTRATE)	0	0	0	0	0	0	0	0	239	253	269	285	302	320	339	360	381	404	428	454	481	510	541	0
- GOLD (%)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- SILVER (%)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
REVENUE - COPPER CONCENTRATE (\$000)																								
- COPPER	0	0	0	0	0	0	0	0	220	700	825	874	926	982	1041	1104	1169	1240	1314	1393	1477	1565	1659	0
- GOLD	0	0	0	0	0	0	0	0	1315	4179	4924	5218	5531	5864	6216	6590	6983	7404	7846	8319	8817	9347	9908	0
- SILVER	0	0	0	0	0	0	0	0	14	44	51	54	58	61	65	69	73	77	82	87	92	97	103	0
TOTAL NET REVENUE - COPPER CONCENTRATE	0	0	0	0	0	0	0	0	1549	4922	5800	6146	6515	6907	7322	7762	8225	8721	9242	9799	10385	11010	11671	0
REFINING CHARGES - BULLION (\$000)																								
- GOLD	0	0	0	0	0	0	0	0	25	84	103	114	126	139	153	170	188	208	231	256	284	316	351	0
- SILVER	0	0	0	0	0	0	0	0	2	6	7	8	9	10	11	12	13	14	16	18	20	22	24	0
NET REVENUE - BULLION (\$000)																								
- GOLD	0	0	0	0	0	0	0	0	6968	22146	26088	27642	29297	31054	32911	34883	36956	39174	41505	43995	46614	49405	52353	0
- SILVER	0	0	0	0	0	0	0	0	13	42	49	52	55	58	61	64	67	71	74	78	82	86	90	0
- TOTAL NET REVENUE - BULLION	0	0	0	0	0	0	0	0	6981	22187	26137	27694	29352	31111	32971	34947	37024	39244	41580	44073	46696	49491	52443	0
TOTAL NET REVENUE	0	0	0	0	0	0	0	0	8529	27110	31937	33840	35867	38018	40293	42709	45249	47965	50821	53872	57081	60501	64114	0

SPRIEL
WORKING CAPITAL
PROFIT STATEMENT

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	07/8
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
WORKING CAPITAL																								
SALES DEBTORS - \$000	0	0	0	0	0	0	0	0	328	1043	1228	1302	1380	1462	1550	1643	1740	1845	1955	2072	2195	2327	0	0
MINE COST CREDITORS - \$000	0	0	0	0	0	0	0	0	593	826	918	1012	1082	1191	1263	1338	1418	1504	1594	1690	1791	1878	0	0
OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	0	0	186	197	209	222	235	249	264	280	294	314	333	353	0	0
SPARES & STORES - \$000	0	0	0	0	0	0	0	0	1185	1852	1836	2023	2165	2382	2525	2677	2837	3007	3187	3379	1791	1678	0	0
KEY PARAMETERS																								
WASTE REMOVED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0	0.0
TREATED ORE (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	68.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
CIP PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
GOLD PRODUCTION (OZ)	0	0	0	0	0	0	0	0	13138	39415	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0
SILVER PRODUCTION (OZ)	0	0	0	0	0	0	0	0	1911	5734	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0
GOLD PRICE (ESCALATED) - \$/OZ	400.0	424.0	449.6	476.4	504.8	535.2	567.6	601.6	637.6	675.6	716.4	759.2	804.8	853.2	904.4	958.8	1016.0	1077.2	1141.6	1210.4	1282.8	1360.0	1441.6	0.0
SILVER PRICE (ESCALATED) - \$/OZ	10.0	10.6	11.2	11.9	12.6	13.4	14.2	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	34.0	36.0	0.0
COPPER PRICE (ESCALATED) - \$/TONNE	2000	2120	2248	2382	2524	2676	2838	3008	3188	3378	3582	3796	4024	4266	4522	4794	5080	5386	5708	6052	6414	6800	7208	0
INFLATION FORECAST - CPI	1.000	1.050	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	3.400	3.604	0.000
PROFIT STATEMENT																								
NET REVENUE - \$000	0	0	0	0	0	0	0	0	8529	27110	31937	33840	35867	38018	40293	42709	45249	47965	50821	53872	57081	60501	64114	0
LESS																								
OPERATING COSTS - \$000	0	135	1321	1122	1187	1264	1541	3517	12936	17564	19496	21126	22516	24392	25856	27411	29047	30796	32637	34604	36674	34571	35795	0
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	0	0	1118	1184	1255	1331	1410	1495	1584	1439	1523	1886	1998	2118	2244	0
DEPRECIATION - \$000	32	225	830	1061	1437	2288	2892	4237	8556	9269	10084	10434	10444	7446	7002	5838	5234	3722	2476	2004	1563	1097	657	0
PLUS																								
INCREASE IN PRODUCT STOCK VALUATION - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROFIT BEFORE INTEREST AND TAX	-32	-360	-2150	-2183	-2624	-3553	-4433	-7755	-12963	278	1239	1096	1652	4849	6025	7965	9384	12007	14183	15378	16846	22715	25418	0
INTEREST - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAX EXPENSE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NET PROFIT - \$000	-32	-360	-2150	-2183	-2624	-3553	-4433	-7755	-12963	278	1239	1096	1652	4849	6025	7965	9384	12007	14183	15378	16846	22715	25418	0

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7		
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
KEY PARAMETERS																									
WASTE REMOVED (000 TONNES)	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0	
TREATED ORE (000 TONNES)	0	0	0	0	0	0	0	0	23	68	75	75	75	75	75	75	75	75	75	75	75	75	75	75	
CIP PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0	
GOLD PRODUCTION (OZ)	0	0	0	0	0	0	0	0	13138	39415	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0	
SILVER PRODUCTION (OZ)	0	0	0	0	0	0	0	0	1911	5734	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0	
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0	
GOLD PRICE (ESCALATED) - \$/OZ	400.0	424.0	449.6	476.4	504.8	535.2	567.6	601.6	637.6	675.6	716.4	759.2	804.8	853.2	904.4	958.8	1016.0	1077.2	1141.6	1210.4	1282.8	1350.0	1441.6	0.0	
SILVER PRICE (ESCALATED) - \$/OZ	10.0	10.6	11.2	11.9	12.6	13.4	14.2	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	34.0	36.0	0.0	
COPPER PRICE (ESCALATED) - \$/TONNE	2000	2120	2248	2382	2524	2676	2838	3009	3188	3378	3582	3796	4024	4266	4522	4794	5080	5386	5708	6052	6414	6800	7208	0	
INFLATION FORECAST - CPI	1.000	1.060	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	3.400	3.604	0.000	
PROJECT CASH FLOW																									
GROSS REVENUE - \$000	0	0	0	0	0	0	0	0	8529	27110	31937	33840	35867	38018	40293	42709	45249	47965	50821	53872	57081	60501	64114	0	
LESS INCREASE IN SALES DEBTORS - \$000	0	0	0	0	0	0	0	0	328	715	186	73	78	83	87	93	98	104	110	117	123	132	-2327	0	
CASH RECEIPTS - \$000	0	0	0	0	0	0	0	0	8201	26395	31751	33767	35789	37936	40206	42616	45151	47860	50712	53755	56958	60369	64441	0	
LESS OPERATING COSTS - \$000	0	135	1321	1122	1187	1264	1541	3517	12936	17564	19496	21126	22516	24392	25856	27411	29047	30796	32637	34604	36674	34571	35795	0	
OPERATORS FEE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DECREASE IN OP COST CREDITORS - \$000	0	0	0	0	0	0	0	0	-593	-234	-92	-94	-71	-109	-71	-76	-80	-85	-90	-96	-101	113	1678	0	
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	0	0	0	1118	1184	1255	1331	1410	1495	1584	1439	1525	1886	1998	2118	2244	0
DECREASE IN OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	0	0	-186	-11	-12	-13	-13	-14	-15	24	-14	-60	-19	-20	353	0	
CASH FLOW BEFORE INTEREST AND TAX - \$000	0	-135	-1321	-1122	-1187	-1264	-1541	-3517	-4143	9065	11415	11561	12101	12334	13024	13800	14615	15536	16654	17421	18405	23588	26371	0	
INTEREST PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TAX PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLUS - LOAN DRAWDOWN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LESS - LOAN REPAYMENT - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CAPITAL EXPENDITURE - \$000	502	3530	7742	2429	4127	8738	8729	27553	6931	5958	6655	4983	4928	1704	841	283	460	403	1281	865	480	390	41	0	
INCREASE IN SPARES/STORES	0	0	0	0	0	0	0	0	1185	467	184	187	142	217	143	152	160	171	160	192	-1589	-113	-1678	0	
WINE CLOSURE SALE OF ASSETS & STORES - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	726	
PROJECT CASH FLOW - \$000	-502	-3666	-9063	-3551	-5314	-10002	-10270	-31070	-12258	2640	4577	6391	7031	10413	12040	13365	13996	15113	15193	16363	19514	23210	28007	726	
CUMULATIVE CASH FLOW - \$000	-502	-4168	-13231	-16782	-22097	-32099	-42369	-73439	-85698	-83058	-78481	-72091	-65059	-54646	-42606	-29241	-15245	-132	15061	31424	50939	74249	102256	102982	
NPV AT 16% (ACTUAL) - \$000	-23046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 18% (ACTUAL) - \$000	-23687	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 20% (ACTUAL) - \$000	-23728	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DCF YIELD - ESCALATED %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	3.3	4.7	5.9	7.1	0.0
DEFLATED CASH FLOW SUMMARY																									
DEFLATED CASH FLOW - \$000	-502	-3458	-8063	-2982	-4211	-7476	-7238	-20658	-7690	1563	2555	3367	3495	4882	5325	5576	5510	5612	5323	5408	5085	6856	7973	0	
GOLD PRICE - REAL \$/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	400.0	400.0	600.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	0.0	
SILVER PRICE - REAL \$/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0	
COPPER PRICE - REAL \$/TONNE (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	0.0	
NPV AT 8% (REAL) - \$000	-21930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 10% (REAL) - \$000	-23288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 12% (REAL) - \$000	-23737	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DCF YIELD - REAL %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	

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	84/5	85/6	85/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ASSETS																								
ASSETS AT COST - \$000	502	4033	11775	14204	18331	27069	35799	63351	70282	76240	82895	87879	92806	94510	95351	95634	96094	96496	97777	98643	99122	99513	99554	98828
DEPRECIATION - \$000	32	258	1087	2148	3585	5873	8765	13003	21558	30827	40911	51345	61789	69236	76237	82076	87309	91032	93508	95512	97075	98172	98828	98828
ASSETS WRITTEN DOWN VALUE - \$000	470	3775	10688	12056	14747	21196	27033	50349	48724	45414	41984	36533	31017	25274	19114	13558	8784	5465	4269	3131	2048	1341	726	0
CAPITALISED INTEREST - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEPRECIATION - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAPITALISED INTEREST W/D - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCT STOCKS - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALES DEBTORS - \$000	0	0	0	0	0	0	0	0	328	1043	1228	1302	1380	1462	1550	1643	1740	1845	1955	2072	2195	2327	0	0
SPARES/STOKES - \$000	0	0	0	0	0	0	0	0	1185	1652	1836	2023	2165	2382	2525	2677	2837	3007	3187	3379	1791	1678	0	0
CASH AT BANK - \$000	-502	-4168	-13231	-16782	-22097	-32099	-42369	-73439	-85698	-83058	-78481	-72091	-65059	-54646	-42606	-29241	-15245	-132	15061	31424	50939	74249	102256	102982
TOTAL ASSETS - \$000	-32	-393	-2543	-4726	-7350	-10903	-15336	-23091	-35461	-34950	-33433	-32232	-30498	-25527	-19417	-11363	-1883	10185	24472	40007	56973	79595	102982	102982
CURRENT LIABILITIES - \$000																								
CREDITORS - \$000	0	0	0	0	0	0	0	0	593	826	1104	1209	1292	1413	1498	1588	1682	1744	1848	2004	2124	2031	0	0
CURRENT TAX - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON CURRENT LIABILITIES - \$000																								
PROJECT LOAN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFERRED TAX - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHAREHOLDERS FUNDS - \$000																								
RETAINED PROFITS - \$000	-32	-393	-2543	-4726	-7350	-10903	-15336	-23091	-36053	-35776	-34537	-33441	-31789	-26940	-20915	-12950	-3566	8441	22625	38003	54849	77564	102982	102982
TOTAL LIABILITIES - \$000	-32	-393	-2543	-4726	-7350	-10903	-15336	-23091	-35461	-34950	-33433	-32232	-30498	-25527	-19417	-11363	-1883	10185	24472	40007	56973	79595	102982	102982
BALANCE SHEET - FNTB \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BALANCE SHEET - FNTB CHANGE \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

196161

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7		
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
KEY PARAMETERS																									
WASTE REMOVED (000 TONNES)	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0	
TREATED ORE (000 TONNES)	0	0	0	0	0	0	0	0	23	68	75	75	75	75	75	75	75	75	75	75	75	75	75	0	
CIP PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0	
GOLD PRODUCTION (OZ)	0	0	0	0	0	0	0	0	13138	39415	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0	
SILVER PRODUCTION (OZ)	0	0	0	0	0	0	0	0	1911	5734	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0	
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0	
GOLD PRICE (ESCALATED) - \$/OZ	500.0	530.0	552.0	595.5	631.0	689.0	709.5	752.0	797.0	844.5	895.5	949.0	1006.0	1066.5	1130.5	1198.5	1270.0	1346.5	1427.0	1513.0	1603.5	1700.0	1802.0	0.0	
SILVER PRICE (ESCALATED) - \$/OZ	12.5	13.3	14.0	14.9	15.8	16.7	17.7	18.8	19.9	21.1	22.4	23.7	25.1	26.7	28.3	30.0	31.7	33.7	35.7	37.8	40.1	42.5	45.0	0.0	
COPPER PRICE (ESCALATED) - \$/TONNE	2500	2650	2810	2977	3155	3345	3547	3760	3985	4222	4477	4745	5030	5332	5652	5992	6350	6733	7135	7565	8017	8500	9010	0	
INFLATION FORECAST - CPI																									
	1.000	1.060	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	3.400	3.594	0.000	
PROJECT CASH FLOW																									
GROSS REVENUE - \$000	0	0	0	0	0	0	0	0	10728	34097	40168	42562	45111	47817	50678	53717	56911	60327	63920	67757	71793	76094	80639	0	
LESS INCREASE IN SALES DEBTORS - \$000	0	0	0	0	0	0	0	0	413	899	234	92	98	104	110	117	123	131	138	148	155	165	-2927	0	
CASH RECEIPTS - \$000	0	0	0	0	0	0	0	0	10315	33198	39934	42470	45013	47713	50568	53600	56788	60195	63782	67609	71638	75929	80565	0	
LESS OPERATING COSTS - \$000	0	135	1321	1122	1187	1264	1541	3517	12936	17564	19496	21126	22516	24392	25856	27411	29047	30795	32637	34504	36574	38751	35795	0	
OPERATORS FEE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DECREASE IN DP COST CREDITORS - \$000	0	0	0	0	0	0	0	0	-593	-234	-92	-94	-71	-109	-71	-76	-80	-85	-90	-96	-101	113	1678	0	
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	0	1193	1406	1450	1353	1435	1774	1889	1952	2111	2237	2371	2513	2663	2822	0	
DECREASE IN OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	0	-199	-35	-14	23	-14	-57	-18	-19	-20	-21	-22	-24	-25	444	0	
CASH FLOW BEFORE INTEREST AND TAX - \$000	0	-135	-1321	-1122	-1187	-1264	-1541	-3517	-2029	14873	19160	19962	21193	22008	23066	24402	25848	27393	29018	30752	32575	34507	42826	0	
INTEREST PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TAX PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLUS - LOAN DRAWDOWN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LESS - LOAN REPAYMENT - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CAPITAL EXPENDITURE - \$000	502	3530	7742	2429	4127	8738	8729	27553	6931	5958	6655	4983	4928	1704	841	283	460	403	1281	865	480	390	41	0	
INCREASE IN SPARES/STORES	0	0	0	0	0	0	0	0	1185	467	184	187	142	217	143	152	160	171	180	192	-1539	-113	-1678	0	
WINE CLOSURE SALE OF ASSETS & STORES - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	726	0	
PROJECT CASH FLOW - \$000	-502	-3666	-9063	-3551	-5314	-10002	-10270	-31070	-10145	8448	12321	14791	16123	20087	22082	23967	25228	26820	27557	29394	33684	38323	44463	726	
CUMULATIVE CASH FLOW - \$000	-502	-4168	-13231	-16782	-22097	-32099	-42369	-73439	-83584	-75136	-62815	-48024	-31901	-11814	10268	34236	59464	86283	113841	143555	177220	215549	260022	260733	
NPV AT 16% (ACTUAL) - \$000	-6483	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 18% (ACTUAL) - \$000	-10614	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 20% (ACTUAL) - \$000	-13324	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DCF YIELD - ESCALATED %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.0	7.3	9.1	10.4	11.5	12.4	13.2	14.0	0.0
DEFLATED CASH FLOW SUMMARY																									
DEFLATED CASH FLOW - \$000	-502	-3458	-8063	-2982	-4211	-7476	-7238	-20658	-6364	5002	6879	7793	8013	9417	9767	9999	9932	9959	9656	9813	10503	11273	12538	0	
GOLD PRICE - REAL \$\$/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	0.0	
SILVER PRICE - REAL \$\$/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	0.0	
COPPER PRICE - REAL \$\$/TONNE (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	0.0	
NPV AT 8% (REAL) - \$000	-1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 10% (REAL) - \$000	-7874	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 12% (REAL) - \$000	-11707	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DCF YIELD - REAL %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	2.9	4.2	5.2	6.1	6.8	7.5	0.0	

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02/24/85

BEACONSFIELD PROJECT
CASH FLOW STATEMENT

CASE 1

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	05/7		
	-6	-7	-5	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		
KEY PARAMETERS																									
ORE REMOVED (000 TONNES)	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0	
TREATED ORE (000 TONNES)	0	0	0	0	0	0	0	0	23	68	75	75	75	75	75	75	75	75	75	75	75	75	75	0	
DIP PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0	
GOLD PRODUCTION (OZ)	0	0	0	0	0	0	0	0	13138	39415	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0	
SILVER PRODUCTION (OZ)	0	0	0	0	0	0	0	0	1911	5754	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0	
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0	
GOLD PRICE (ESCALATED) - \$/OZ	600.0	636.0	674.4	714.6	757.2	802.0	851.4	902.4	956.4	1013.4	1074.6	1138.8	1207.2	1279.8	1355.6	1438.2	1524.0	1615.8	1712.4	1815.6	1924.2	2040.0	2162.4	0.0	
SILVER PRICE (ESCALATED) - \$/OZ	15.0	15.5	16.9	17.9	18.9	20.1	21.3	22.6	23.9	25.3	26.9	28.5	30.2	32.0	33.9	36.0	38.1	40.4	42.9	45.4	48.1	51.0	54.1	0.0	
COPPER PRICE (ESCALATED) - \$/TONNE	3000	3180	3372	3572	3786	4014	4257	4512	4782	5057	5373	5694	6036	6399	6783	7191	7620	8079	8562	9078	9621	10200	10812	0	
INFLATION FORECAST - CPI	1.000	1.050	1.124	1.191	1.262	1.339	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.025	3.207	3.400	3.504	0.000	
PROJECT CASH FLOW																									
GROSS REVENUE - \$000	0	0	0	0	0	0	0	0	12926	41084	48399	51283	54256	57615	61063	64724	68573	72589	77019	81642	86505	91688	97154	0	
LESS																									
INCREASE IN SALES DEBTORS - \$000	0	0	0	0	0	0	0	0	497	1083	281	111	118	125	133	141	148	158	167	178	187	193	-3526	0	
CASH RECEIPTS - \$000	0	0	0	0	0	0	0	0	12429	40001	48118	51172	54237	57490	60930	64583	68425	72331	76852	81454	86318	91489	100590	0	
LESS																									
OPERATING COSTS - \$000	0	135	1321	1122	1187	1264	1541	3517	12936	17564	19456	21126	22516	24392	25856	27411	29047	30796	32637	34504	36574	34571	35735	0	
OPERATING FEE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DECREASE IN OP COST CREDITORS - \$000	0	0	0	0	0	0	0	0	-593	-234	-92	-94	-71	-109	-71	-76	-80	-85	-90	-96	-101	113	1578	0	
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	0	1233	1694	1725	1902	2017	2137	2265	2400	2544	2696	2857	3028	3209	3401	0	
DECREASE IN OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	0	-205	-77	-17	-18	-19	-20	-21	-22	-24	-25	-27	-29	-30	535	0	
CASH FLOW BEFORE INTEREST AND TAX - \$000	0	-135	-1321	-1122	-1187	-1264	-1541	-3517	85	21643	27075	28362	29928	31209	33028	35304	37089	39200	41534	44125	46748	53625	59281	0	
INTEREST PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TAX PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLUS - LOAN DRAWDOWN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LESS - LOAN REPAYMENT - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CAPITAL EXPENDITURE - \$000	502	3520	7742	2429	4127	8738	8729	27553	6931	5958	6655	4982	4928	1704	841	283	460	403	1281	865	480	350	41	0	
INCREASE IN SPARES/STOCKS	0	0	0	0	0	0	0	0	1185	457	184	187	142	217	143	152	160	171	180	132	-1593	-113	-1678	0	
MINUS CLOSURE SALE OF ASSETS & STOCKS - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	726	
PROJECT CASH FLOW - \$000	-502	-3666	-9063	-3551	-5314	-10902	-10270	-31970	-8031	15218	20257	23191	24838	29288	32045	34569	36461	38726	40174	43066	47855	55248	60918	726	
CUMULATIVE CASH FLOW - \$000	-502	-4168	-13231	-16782	-22097	-32099	-42369	-73439	-81470	-66252	-45995	-22903	2035	31323	63367	97937	134398	173124	213257	256395	304220	357568	416465	419212	
NPV AT 16% (ACTUAL) - \$000	10259	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 19% (ACTUAL) - \$000	2624	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 20% (ACTUAL) - \$000	-2776	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DCF YIELD - ESCALATED %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	5.7	9.3	11.9	13.8	15.2	16.3	17.1	17.8	18.4	18.9	0.0	
DEFLATED CASH FLOW SUMMARY																									
DEFLATED CASH FLOW - \$000	-502	-3458	-8063	-2982	-4211	-7476	-7738	-20658	-5038	5010	11311	12219	12345	13731	14173	14422	14355	14380	14076	14233	14922	15691	17104	0	
GOLD PRICE - REAL \$1/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	0.0	
SILVER PRICE - REAL \$9/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	0.0	
COPPER PRICE - REAL \$6/TONNE (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3000.0	2000.0	3000.0	2000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	3000.0	0.0	
NPV AT 8% (REAL) - \$000	18167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 10% (REAL) - \$000	7723	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 12% (REAL) - \$000	481	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DCF YIELD - REAL %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	5.6	7.3	8.7	9.7	10.5	11.2	11.7	12.2	0.0

- E.2 -
198163
Price + 50%

3 AT
26/02/85

CASH FLOW STATEMENT

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
KEY PARAMETERS																								
WASTE REMOVED (000 TONNES)	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0
TREATED ORE (000 TONNES)	0	0	0	0	0	0	0	0	23	68	75	75	75	75	75	75	75	75	75	75	75	75	75	75
CIP PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
GOLD PRODUCTION (OZ)	0	0	0	0	0	0	0	0	13138	39415	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0
SILVER PRODUCTION (OZ)	0	0	0	0	0	0	0	0	1911	5734	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0
GOLD PRICE (ESCALATED) - \$/OZ	400.0	424.0	449.6	476.4	504.8	535.2	567.6	601.6	637.6	675.6	716.4	759.2	804.8	853.2	904.4	958.8	1016.0	1077.2	1141.6	1210.4	1282.8	1360.0	1441.6	0.0
SILVER PRICE (ESCALATED) - \$/OZ	10.0	10.6	11.2	11.9	12.6	13.4	14.2	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	34.0	36.0	0.0
COPPER PRICE (ESCALATED) - \$/TONNE	2000	2120	2248	2382	2524	2676	2838	3008	3188	3378	3582	3796	4024	4266	4522	4794	5080	5386	5709	6052	6414	6800	7208	0
INFLATION FORECAST - CPI	1.000	1.060	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	3.400	3.604	0.000
PROJECT CASH FLOW																								
GROSS REVENUE - \$000	0	0	0	0	0	0	0	0	8529	27110	31937	33840	35867	38018	40293	42709	45249	47965	50821	53872	57081	60501	64114	0
LESS INCREASE IN SALES DEBTORS - \$000	0	0	0	0	0	0	0	0	328	715	186	73	73	83	87	93	98	104	110	117	123	132	-2327	0
CASH RECEIPTS - \$000	0	0	0	0	0	0	0	0	8201	26395	31751	33767	35789	37936	40206	42616	45151	47860	50712	53755	56958	60369	65441	0
LESS OPERATING COSTS - \$000	0	135	1321	1122	1187	1264	1541	3517	12936	17564	19496	21126	22516	24392	25856	27411	29047	30796	32637	34504	36574	34571	35795	0
LESS OPERATORS FEE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LESS DECREASE IN OP COST CREDITORS - \$000	0	0	0	0	0	0	0	0	-593	-234	-92	-94	-71	-109	-71	-76	-80	-85	-90	-96	-101	113	1678	0
LESS GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	0	349	1118	1184	1255	1331	1410	1495	1357	1439	1525	1686	1998	2118	2244	0
LESS DECREASE IN OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	0	-158	-28	-11	-12	-13	-13	-14	23	-14	-14	-60	-19	-20	353	0
CASH FLOW BEFORE INTEREST AND TAX - \$000	0	-135	-1321	-1122	-1187	-1264	-1541	-3517	-4143	8274	11257	11561	12101	12334	13024	13800	14604	15724	16654	17421	18405	23588	26371	0
LESS INTEREST PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LESS TAX PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLUS - LOAN DRAWDOWN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LESS - LOAN REPAYMENT - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAPITAL EXPENDITURE - \$000	402	2824	6194	1944	3302	6990	6983	22042	5545	4767	5324	3967	3942	1363	673	226	368	322	1925	652	384	312	33	0
INCREASE IN SPARES/STORES	0	0	0	0	0	0	0	0	1185	467	184	187	142	217	143	152	160	171	189	192	-1589	-113	-1678	0
MINING CLOSURE SALE OF ASSETS & STORES - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	551	0
PROJECT CASH FLOW - \$000	-402	-2959	-7514	-3065	-4489	-8255	-8524	-25560	-10872	3041	5749	7387	8017	10754	12208	13422	14276	15231	15449	16537	15610	23588	20016	581
CUMULATIVE CASH FLOW - \$000	-402	-3361	-10876	-13941	-18430	-26685	-35210	-60769	-71641	-68601	-62851	-55464	-47447	-36693	-24485	-11063	3214	18445	33694	50430	70941	93429	121444	122025
NPV AT 16% (ACTUAL) - \$000	-15617	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 18% (ACTUAL) - \$000	-16920	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 20% (ACTUAL) - \$000	-17537	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCF YIELD - ESCALATED %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	2.8	4.5	5.8	7.1	8.2	9.2	0.0
DEFLATED CASH FLOW SUMMARY																								
DEFLATED CASH FLOW - \$000	-402	-2792	-6685	-2574	-3557	-6169	-6007	-16994	-6821	1800	3210	3892	3985	5042	5400	5599	5621	5656	5413	5455	5115	6879	7935	0
GOLD PRICE - REAL \$#/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	0.0
SILVER PRICE - REAL \$#/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0
COPPER PRICE - REAL \$#/TONNE (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	0.0
NPV AT 8% (REAL) - \$000	-13938	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 10% (REAL) - \$000	-16073	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 12% (REAL) - \$000	-17190	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCF YIELD - REAL %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.1	3.0	0.0

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196164

Capital 20%

AT
03/03/85

CASH FLOW STATEMENT

169

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
KEY PARAMETERS																								
WASTE REMOVED (000 TONNES)	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0
TREATED DRE (000 TONNES)	0	0	0	0	0	0	0	0	23	68	75	75	75	75	75	75	75	75	75	75	75	75	75	75
CIP PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
GOLD PRODUCTION (OZ)	0	0	0	0	0	0	0	0	13138	39415	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0
SILVER PRODUCTION (OZ)	0	0	0	0	0	0	0	0	1911	5734	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0
GOLD PRICE (ESCALATED) - \$/OZ	400.0	424.0	449.6	476.4	504.8	535.2	567.6	601.6	637.6	675.6	716.4	759.2	804.8	853.2	904.4	958.8	1016.0	1077.2	1141.6	1210.4	1282.8	1360.0	1441.6	0.0
SILVER PRICE (ESCALATED) - \$/OZ	10.0	10.6	11.2	11.9	12.6	13.4	14.2	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	34.0	36.0	0.0
COPPER PRICE (ESCALATED) - \$/TONNE	2000	2120	2248	2382	2524	2676	2838	3008	3188	3378	3582	3796	4024	4266	4522	4794	5080	5386	5708	6052	6414	6800	7208	0
INFLATION FORECAST - CPI																								
	1.000	1.060	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.025	3.207	3.400	3.604	0.000
PROJECT CASH FLOW																								
GROSS REVENUE - \$000	0	0	0	0	0	0	0	0	8529	27110	31937	33840	35867	38018	40293	42709	45249	47965	50821	53872	57081	60501	64114	0
LESS INCREASE IN SALES DEBTORS - \$000	0	0	0	0	0	0	0	0	328	715	186	73	78	83	87	93	98	104	110	117	123	132	-2327	0
CASH RECEIPTS - \$000	0	0	0	0	0	0	0	0	8201	26395	31751	33767	35789	37936	40206	42616	45151	47860	50712	53755	56958	60359	64411	0
LESS OPERATING COSTS - \$000	0	111	1069	911	964	1027	1253	2854	10598	14381	15963	17289	18424	19950	21147	22419	23757	25188	26694	28302	29995	32662	29252	0
OPERATORS FEE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECREASE IN OP COST CREDITORS - \$000	0	0	0	0	0	0	0	0	-495	-194	-77	-77	-59	-89	-59	-63	-66	-71	-75	-80	-84	94	1393	0
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	0	949	1118	1184	1255	1331	1209	1281	1357	1679	1779	1885	1998	2118	2244	0
DECREASE IN OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	0	-158	-28	-11	-12	-13	20	-12	-13	-54	-17	-18	-19	-20	353	0
CASH FLOW BEFORE INTEREST AND TAX - \$000	0	-111	-1069	-911	-964	-1027	-1253	-2854	-1902	11417	14775	15381	16180	16756	17889	18991	20116	21118	22330	23664	25067	29915	33199	0
INTEREST PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAX PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLUS - LOAN DRAWDOWN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LESS - LOAN REPAYMENT - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAPITAL EXPENDITURE - \$000	502	3500	7742	2429	4127	8738	8729	27553	6331	5958	6655	4983	4928	1704	841	283	460	403	1281	865	480	390	41	0
INCREASE IN SPARES/STORES	0	0	0	0	0	0	0	0	389	387	153	153	117	178	119	126	133	142	149	160	-1319	-94	-1393	0
MINE CLOSURE SALE OF ASSETS & STORES - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	726
PROJECT CASH FLOW - \$000	-502	-3641	-8812	-3341	-5091	-9765	-9983	-30406	-9822	5072	7967	10245	11135	14875	16929	18582	19523	20573	20900	22639	25907	29619	34551	726
CUMULATIVE CASH FLOW - \$000	-502	-4144	-12955	-16296	-21387	-31152	-41135	-71541	-81363	-76291	-68324	-58060	-46944	-32070	-15141	3441	22964	43538	64438	87077	112984	142603	177154	177880
NPV AT 16% (ACTUAL) - \$000	-14117	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 18% (ACTUAL) - \$000	-16477	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 20% (ACTUAL) - \$000	-17847	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCF YIELD - ESCALATED %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	3.3	5.3	6.8	8.1	9.2	10.1	11.0	0.0
DEFLATED CASH FLOW SUMMARY																								
DEFLATED CASH FLOW - \$000	-502	-3435	-7839	-2805	-4034	-7298	-7035	-20217	-6162	3003	4448	5398	5534	6974	7487	7752	7685	7640	7323	7482	8078	8711	9788	0
GOLD PRICE - REAL \$/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	0.0
SILVER PRICE - REAL \$/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0
COPPER PRICE - REAL \$/TONNE (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	0.0
NPV AT 8% (REAL) - \$000	-11351	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 10% (REAL) - \$000	-14922	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 12% (REAL) - \$000	-17045	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCF YIELD - REAL %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	3.0	3.9	4.7	0.0

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196163

Operating Cost -20%

BRANDSFIELD PROJECT
CASH FLOW STATEMENT

PAGE 1

	84/85	85/86	86/87	87/88	88/89	89/90	90/91	91/92	92/93	93/94	94/95	95/96	96/97	97/98	98/99	99/00	00/01	01/02	02/03	03/04	04/05	05/06	06/07	07/08		
	-6	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16		
WASTE SPREADS (100 TONNES)	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
WASTE SPREADS (100 TONNES)	0	0	0	0	0	0	0	0	23	66	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
WASTE SPREADS (100 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	2.1	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
GOLD PRODUCTION (000)	0	0	0	0	0	0	0	0	18422	43253	84743	84743	84743	84743	84743	84743	84743	84743	84743	84743	84743	84743	84743	84743	84743	
SILVER PRODUCTION (000)	0	0	0	0	0	0	0	0	2368	7167	7363	7363	7363	7363	7363	7363	7363	7363	7363	7363	7363	7363	7363	7363	7363	
COPPER PRODUCTION (100000)	0	0	0	0	0	0	0	0	133	515	524	524	524	524	524	524	524	524	524	524	524	524	524	524	524	
GOLD PRICE (ESCALATED) - \$/OZ	400.0	424.0	443.0	476.4	504.8	533.2	567.0	591.6	627.0	675.6	716.4	753.2	794.3	832.2	874.4	928.8	1016.0	1077.2	1141.6	1210.4	1282.5	1358.0	1441.0	1511.0	1580.0	
SILVER PRICE (ESCALATED) - \$/OZ	10.0	10.5	11.2	11.9	12.5	13.4	14.7	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	34.0	35.0	36.0	37.0	
COPPER PRICE (ESCALATED) - \$/TONNE	2000	2120	2243	2380	2524	2676	2838	2936	3169	3378	3592	3795	4024	4266	4522	4794	5090	5386	5709	6052	6424	6800	7195	7595	7995	
DEFLATION FORECAST - PCT	1.000	1.000	1.024	1.101	1.232	1.320	1.419	1.504	1.594	1.639	1.791	1.939	2.012	2.133	2.251	2.337	2.530	2.695	2.854	3.025	3.207	3.400	3.604	3.800	4.000	
PROJECT CASH FLOW																										
SALES REVENUE - \$000	0	0	0	0	0	0	0	0	10862	25897	39921	42300	44824	47573	50365	53336	56361	59336	63327	67340	71351	75365	80402	85422	90422	
INCREASE IN SALES DEBITORS - \$000	0	0	0	0	0	0	0	0	410	833	222	92	97	103	109	115	122	131	137	147	154	164	164	-1739	0	
CASH RECEIPTS - \$000	0	0	0	0	0	0	0	0	10452	25064	39699	42209	44737	47470	50257	53220	56239	59205	63190	67193	71197	75191	80163	85123	90083	
OPERATING COSTS - \$000	0	175	1321	1102	1187	1264	1241	2817	12956	17554	19436	21126	22516	24392	25856	27411	29047	30756	32537	34394	36274	38171	40095	42046	44016	
OPERATORS FEE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DECREASE IN CR. DEBT CREDITORS - \$000	0	0	0	0	0	0	0	0	-553	-234	-92	-34	-71	-103	-71	-76	-83	-85	-90	-95	-101	-107	-112	-117	-122	
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	0	1185	1297	1431	1565	1703	1763	1855	1980	2058	2132	2207	2287	2347	2427	2507	2587	
DECREASE IN OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	0	-196	-35	-14	23	-13	-36	-18	-13	-20	-21	-22	-23	-23	-23	-24	-24	
CASH FLOW BEFORE INTEREST AND TAX - \$000	0	-135	-1021	-1110	-1187	-1264	-1541	-3517	-2092	14676	18323	19710	20924	21724	22756	24084	25511	27035	28539	30130	31710	33295	34875	36455	38035	
INTEREST PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TAX PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
PLUS - LOAN DRAWDOWN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
LESS - LOAN REPAYMENT - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
CAPITAL EXPENDITURE - \$000	502	3520	7742	2429	4127	8739	9729	27553	6931	5958	6655	4963	4928	1704	841	263	460	403	1281	695	460	250	41	0	0	
INCREASE IN SPARES/STOCKS	0	0	0	0	0	0	0	0	1185	457	184	187	142	217	143	152	150	171	190	132	-1539	-112	-1376	0	0	
NET DISBURSE SALE OF ASSETS & STORES - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	725	
PROJECT CASH FLOW - \$000	-502	-3624	-9063	-3551	-5314	-10002	-10270	-31070	-10208	8250	12084	14539	15985	15903	21782	23549	24891	26462	27179	29293	30289	31679	33268	34958	36726	
CUMULATIVE CASH FLOW - \$000	-502	-4160	-13223	-16774	-22088	-32090	-42360	-73430	-83638	-75388	-63304	-48319	-32319	-15117	8665	32315	57206	82668	110847	140140	170329	211277	253045	295771	339597	
NPV AT 12% (ACTUAL) - \$000	-6337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 12% (ACTUAL) - \$000	-11012	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 20% (ACTUAL) - \$000	-10541	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
DCF YIELD - ESCALATED %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.8	7.1	6.9	10.2	11.3	12.2	13.1	12.8	0.0	0.0	
DEFLATED CASH FLOW SUMMARY																										
DEFLATED CASH FLOW - \$000	-502	-3458	-8063	-2392	-4211	-7476	-7238	-20559	-6404	4885	6747	7650	7880	9284	9634	9865	9800	9826	9523	9680	10371	11141	12401	13801	15201	
GOLD PRICE - REAL \$1/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	
SILVER PRICE - REAL \$1/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	
COPPER PRICE - REAL \$1/TONNE (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	
NPV AT 8% (REAL) - \$000	-2593	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 10% (REAL) - \$000	-8243	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
NPV AT 12% (REAL) - \$000	-12073	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Y R R O X	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	2.7	4.0	5.0	5.5	6.7	7.1	0.0	0.0	

- E.5 - 196166 In-situ Grade + 25%

AT
28/03/85

BARROSO FIELD PROJECT
CASH FLOW STATEMENT

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	05/6	06/7	
	-8	-7	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
KEY PARAMETERS																								
WASTE REMOVED (000 TONNES)	0	0	0	0	0	0	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	0	0	0
TREATED GRC (000 TONNES)	0	0	0	0	0	0	0	0	23	68	75	75	75	75	75	75	75	75	75	75	75	75	75	0
CIP PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
GOLD PRODUCTION (OZ)	0	0	0	0	0	0	0	0	13138	39415	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0
SILVER PRODUCTION (OZ)	0	0	0	0	0	0	0	0	1911	5734	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0
GOLD PRICE (ESCALATED) - \$/OZ	500.0	530.0	552.0	595.5	631.0	669.0	709.5	752.0	797.0	841.5	895.5	949.0	1006.0	1066.5	1130.5	1198.5	1270.0	1346.5	1427.0	1513.0	1603.5	1700.0	1802.0	0.0
SILVER PRICE (ESCALATED) - \$/OZ	12.5	13.3	14.0	14.9	15.8	16.7	17.7	18.8	19.9	21.1	22.4	23.7	25.1	26.7	28.3	30.0	31.7	33.7	35.7	37.8	40.1	42.5	45.0	0.0
COPPER PRICE (ESCALATED) - \$/TONNE	2500	2550	2810	2977	3155	3345	3547	3760	3985	4222	4477	4745	5030	5332	5652	5992	6350	6733	7135	7565	8017	8500	9010	0
INFLATION FORECAST - CPI	1.000	1.060	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	3.400	3.604	0.000
PROJECT CASH FLOW																								
GROSS REVENUE - \$000	0	0	0	0	0	0	0	0	10728	34097	40158	42562	45111	47817	50678	53717	56911	60327	63920	67757	71793	76094	80539	0
LESS - INCREASE IN SALES DEBTORS - \$000	0	0	0	0	0	0	0	0	413	899	234	92	98	104	110	117	123	131	138	148	155	165	-2927	0
CASH RECEIPTS - \$000	0	0	0	0	0	0	0	0	10315	33198	39934	42470	45013	47713	50568	53600	56783	60195	63782	67609	71638	75929	80565	0
LESS - OPERATING COSTS - \$000	0	111	1069	911	964	1027	1253	2854	10598	14381	15963	17289	18424	19950	21147	22419	23757	25188	26634	28302	29935	32522	29252	0
OPERATORS FEE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECREASE IN OP COST CREDITORS - \$000	0	0	0	0	0	0	0	0	-495	-194	-77	-77	-59	-89	-59	-63	-65	-71	-75	-80	-84	94	1393	0
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	0	1023	1205	1490	1579	1674	1774	1889	1992	2111	2237	2371	2513	2663	2822	0
DECREASE IN OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	0	-170	-30	-47	-15	-16	-17	-18	-19	-20	-21	-22	-24	-25	444	0
CASH FLOW BEFORE INTEREST AND TAX - \$000	0	-111	-1069	-911	-964	-1027	-1253	-2854	212	18158	22973	23915	25084	26194	27723	29381	31124	32987	34946	37038	39237	44934	49655	0
INTEREST PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAX PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PLUS - LOAN DRAWDOWN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LESS - LOAN REPAYMENT - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAPITAL EXPENDITURE - \$000	402	2824	6194	1944	3302	6990	6983	22042	5545	4767	5324	3987	3942	1363	673	226	368	322	1025	692	384	312	33	0
INCREASE IN SPARES/STORES	0	0	0	0	0	0	0	0	989	387	153	153	117	178	119	126	133	142	149	160	-1319	-94	-1393	0
MINE CLOSURE SALE OF ASSETS & STORES - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	591
PROJECT CASH FLOW - \$000	-402	-2935	-7263	-2855	-4266	-8017	-8237	-24896	-5322	13004	17396	19675	21024	24653	26932	29029	30624	32523	33773	36186	40173	44716	51014	581
CUMULATIVE CASH FLOW - \$000	-402	-3337	-10600	-13455	-17721	-25738	-33975	-58871	-65193	-52188	-34792	-15117	5907	30560	57491	86520	117144	149667	183439	219625	259798	304514	355529	356109
NPV AT 16% (ACTUAL) - \$000	10328	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 18% (ACTUAL) - \$000	3756	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 20% (ACTUAL) - \$000	-911	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCF YIELD - ESCALATED %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	6.8	10.3	12.8	14.6	16.0	17.0	17.8	18.5	19.1	19.6	0.0
DEFLATED CASH FLOW SUMMARY																								
DEFLATED CASH FLOW - \$000	-402	-2763	-6462	-2397	-3380	-5992	-5805	-16553	-3966	7700	9713	10366	10449	11558	11911	12110	12057	12077	11833	11958	12527	13152	14315	0
GOLD PRICE - REAL \$/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	500.0	0.0
SILVER PRICE - REAL \$/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	0.0
COPPER PRICE - REAL \$/TDRNE (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	2500.0	0.0
NPV AT 8% (REAL) - \$000	17087	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 10% (REAL) - \$000	8140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 12% (REAL) - \$000	1906	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DCF YIELD - REAL %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	4.1	6.4	8.1	9.4	10.4	11.2	11.8	12.4	12.8	0.0

- E.6 -
 198167
 Price +25%
 Capital -20%
 Operating -20%

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ORE & WASTE REMOVAL																					
IN SITU ORE REMOVED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	18.8	56.3	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5	62.5
MINE DILUTION FACTOR (X)	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
GOLD GRADE - IN SITU (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00	24.00
GOLD GRADE - MINE PRODUCTION (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
SILVER GRADE - IN SITU (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
SILVER GRADE - MINE PRODUCTION (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
COPPER GRADE - IN SITU (X)	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
COPPER GRADE - MINE PRODUCTION (X)	0.000	0.000	0.000	0.000	0.000	0.000	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833	0.833
WASTE REMOVED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0
SPECIFIC GRAVITY (ORE & WASTE)	0.00	0.00	0.00	0.00	0.00	0.00	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
ORE PRODUCTION SCHEDULE (000 TONNES)																					
- OPENING ROM STOCKPILE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
- MINE PRODUCTION	0.0	0.0	0.0	0.0	0.0	0.0	22.5	67.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
- ORE PLANT FEED	0.0	0.0	0.0	0.0	0.0	0.0	22.5	67.5	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
- CLOSING ROM STOCKPILE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
GRAVITY PLANT - PRODUCTION AND METALLURGICAL RECOVERY																					
GOLD RECOVERY - GRAVITY PLANT (X)	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
GOLD RECOVERY - GRAVITY PLANT (000 GM)	0	0	0	0	0	0	90	270	300	300	300	300	300	300	300	300	300	300	300	300	300
GOLD GRADE - GRAVITY PLANT PRODUCT (GM/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0
GRAVITY PLANT PRODUCTION (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	99.0	270.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
GRAVITY PLANT TAILS (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	22.4	67.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
GOLD GRADE - GRAVITY PLANT TAILS (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06
SILVER RECOVERY - GRAVITY PLANT (X)	0.0	0.0	0.0	0.0	0.0	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
SILVER RECOVERY - GRAVITY PLANT (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	15.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
SILVER GRADE - GRAVITY PLANT TAILS (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68
COPPER LOSS - GRAVITY PLANT (X)	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
COPPER LOSS - GRAVITY PLANT (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	1.9	5.6	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
COPPER GRADE - GRAVITY PLANT TAILS (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
GRAVITY PLANT CONCENTRATE																					
GRAVITY PLANT PRODUCTION (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	90.0	270.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0
GRAVITY PLANT PRODUCTION - GOLD GRADE (GM/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0	1000.0
GRAVITY PLANT PRODUCTION - SILVER GRADE (GM/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7	166.7
GRAVITY PLANT PRODUCTION - COPPER GRADE (X)	0.00	0.00	0.00	0.00	0.00	0.00	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08	2.08
COPPER FLOTATION - PRODUCTION AND METALLURGICAL RECOVERY																					
FEED FROM GRAVITY PLANT TO FLOTATION (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	22.41	67.23	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70	74.70
GOLD GRADE - FEED FROM GRAVITY PLANT (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06	16.06
SILVER GRADE - FEED FROM GRAVITY PLANT (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68	2.68
COPPER GRADE - FEED FROM GRAVITY PLANT (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
COPPER RECOVERY - CU CONC (% OF GRAVITY FEED)	0.00	0.00	0.00	0.00	0.00	0.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00	85.00
COPPER RECOVERY - CU CONC (% OF FLOTATION FEED)	0.00	0.00	0.00	0.00	0.00	0.00	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86	85.86
COPPER RECOVERY - COPPER CONCENTRATE (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	159.4	478.1	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2
COPPER CONCENTRATE - COPPER GRADE (X)	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
COPPER CONCENTRATE PRODUCTION (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	1.06	3.19	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54
COPPER FLOTATION PLANT TAILS (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	21.35	64.04	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16
COPPER GRADE - COPPER FLOTATION PLANT TAILS (X)	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12
GOLD RECOVERY - CU CONC (% OF GRAVITY FEED)	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00
GOLD RECOVERY - CU CONC (% OF FLOTATION FEED)	0.00	0.00	0.00	0.00	0.00	0.00	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75	18.75
GOLD RECOVERY - COPPER CONCENTRATE (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	67.5	202.5	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0
GOLD GRADE - COPPER FLOTATION PLANT TAILS (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70
SILVER RECOVERY - CU CONC (% OF GRAVITY FEED)	0.00	0.00	0.00	0.00	0.00	0.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
SILVER RECOVERY - CU CONC (% OF FLOTATION FEED)	0.00	0.00	0.00	0.00	0.00	0.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
SILVER RECOVERY - COPPER CONCENTRATE (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	30.0	90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
SILVER GRADE - COPPER FLOTATION PLANT TAILS (GM/TONN)	0.00	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
COPPER CONCENTRATE PRODUCTION																						
COPPER CONCENTRATE PRODUCTION (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	1.06	3.19	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	0.00
COPPER CONCENTRATE - GOLD GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	63.53	0.00
COPPER CONCENTRATE - SILVER GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	28.24	0.00
COPPER CONCENTRATE - COPPER GRADE (X)	0.00	0.00	0.00	0.00	0.00	0.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	15.00	0.00
PYRITE FLOTATION																						
FEED FROM COPPER FLOTATION (000 TONNES)	0.00	0.00	0.00	0.00	0.00	0.00	21.35	64.04	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	71.16	0.00
GOLD GRADE - FEED FROM COPPER FLOTATION (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	13.70	0.00
SILVER GRADE - FEED FROM COPPER FLOTATION (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	0.00
GOLD RECOVERY - PYRITE CONC (% OF GRAVITY FEED)	0.0	0.0	0.0	0.0	0.0	0.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	0.0
GOLD RECOVERY - PYRITE CONC (% OF PYRITE FEED)	0.0	0.0	0.0	0.0	0.0	0.0	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	0.0
GOLD RECOVERY - PYRITE CONCENTRATE (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	270.0	810.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	900.0	0.0
SILVER RECOVERY - PYRITE CONC (% OF GRAVITY FEED)	0.0	0.0	0.0	0.0	0.0	0.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	0.0
SILVER RECOVERY - PYRITE CONC (% OF PYRITE FEED)	0.0	0.0	0.0	0.0	0.0	0.0	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	0.0
SILVER RECOVERY - PYRITE CONCENTRATE (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	26.2	78.7	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	87.5	0.0
PYRITE PLANT CONCENTRATE/ROAST FEED																						
PYRITE CONCENTRATE PRODUCTION (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0
PYRITE CONCENTRATE - GOLD GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	200.00	0.00
PYRITE CONCENTRATE - SILVER GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	19.44	0.00
CALCINE PRODUCTION/CIP PLANT FEED																						
CALCINE RECOVERY (% OF ROAST FEED)	0.0	0.0	0.0	0.0	0.0	0.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	85.0	0.0
CALCINE RECOVERY (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0
CALCINE - GOLD GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	235.29	0.00
CALCINE - SILVER GRADE (GM/TONNE)	0.00	0.00	0.00	0.00	0.00	0.00	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	22.88	0.00
GOLD RECOVERY (% CIP PLANT FEED)	0.0	0.0	0.0	0.0	0.0	0.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	93.0	0.0
GOLD RECOVERY (CIP PLANT) (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	251.1	753.3	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	0.0
SILVER RECOVERY (% OF CIP PLANT FEED)	0.0	0.0	0.0	0.0	0.0	0.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	55.0	0.0
SILVER RECOVERY (CIP PLANT) (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	14.4	43.3	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	0.0
PRODUCTION SUMMARY																						
GOLD BULLION PRODUCTION (000 GM)																						
- GRAVITY PLANT	0.0	0.0	0.0	0.0	0.0	0.0	90.0	270.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	0.0
- CIP PLANT	0.0	0.0	0.0	0.0	0.0	0.0	251.1	753.3	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	837.0	0.0
TOTAL GOLD BULLION (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	341.1	1023.3	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	1137.0	0.0
SILVER BULLION PRODUCTION (000 GM)																						
- GRAVITY PLANT	0.0	0.0	0.0	0.0	0.0	0.0	15.0	45.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	0.0
- CIP PLANT	0.0	0.0	0.0	0.0	0.0	0.0	14.4	43.3	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	48.1	0.0
TOTAL SILVER BULLION (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	29.4	88.3	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	98.1	0.0
COPPER CONCENTRATE PRODUCTION																						
- GOLD CONTENT (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	67.5	202.5	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	225.0	0.0
- SILVER CONTENT (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	30.0	90.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	0.0
- COPPER CONTENT (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	159.4	478.1	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	0.0
TOTAL MINE PRODUCTION																						
TOTAL GOLD PRODUCTION (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	408.6	1225.8	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	1362.0	0.0
TOTAL SILVER PRODUCTION (000 GM)	0.0	0.0	0.0	0.0	0.0	0.0	59.4	178.3	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	198.1	0.0
TOTAL COPPER PRODUCTION (TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	159.4	478.1	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	531.2	0.0

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COST 1984/5 \$	84/5 -6	85/6 -5	86/7 -4	87/8 -3	88/9 -2	89/90 -1	90/1 1	91/2 2	92/3 3	93/4 4	94/5 5	95/6 6	96/7 7	97/8 8	98/9 9	99/00 10	00/1 11	01/2 12	02/3 13	02/4 14	04/5 15
MINE DEVELOPMENT																					
HART SHAFT - ONGOING MAINTENANCE	70	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (ORDER OF MAGNITUDE)	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE DIAMOND DRILL PROGRAMME	1000	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	150	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HART SHAFT Dewatering																					
- TENDER/MOBILISE	500	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HEADFRAME/WINDER	300	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEWATER/REHABILITATION	4000	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1664RL	150	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1669RL	150	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 1																					
- TENDER/PRESINK/HEADFRAME	1750	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (160M)	4950	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (300M)	1225	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	126	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1500RL	1250	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1500RL	250	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	1175	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PRODUCTION WINDER/WINDER HOUSE	2150	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/CONVEYANCES/LOAD STATION	510	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	125	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	195	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 1																					
- ORE & WASTE PASSES	300	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	1485	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	143	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 2																					
- TENDER/MOBILISE	1000	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (265M)	2173	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (800M)	1950	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	126	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1320RL	1250	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1320RL	250	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	500	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/LOAD STATION	250	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	55	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1185RL	1250	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1185RL	250	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	195	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 2																					
- ORE & WASTE PASSES	450	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	743	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	285	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT																					
AIR LEG ROCKDRILL	3	0	0	0	0	0	20	10	0	0	0	0	0	0	0	0	0	0	0	0	0
SCRAPER (15hp)	20	0	0	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0
RAIL LOADERS (EIMCO 12B)	20	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
DEVELOPMENT LOADER (CAVO 310)	55	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTERY LOCOM (3 TONNE)	45	0	0	0	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
GRANBY TRUCKS (2 TONNE)	4	0	0	0	0	0	15	10	0	0	0	0	0	0	0	0	0	0	0	0	0
TIPPING RAMP	3	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC RAIL EQUIPMENT	2	0	0	0	0	0	10	10	5	0	0	0	0	0	0	0	0	0	0	0	0
AUXILIARY FANS (5/10hp)	1	0	0	0	0	0	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0
STOPE WINCH (1 TONNE)	5	0	0	0	0	0	4	4	0	0	0	4	4	0	0	0	0	0	0	0	0
SERVICE WINCH (3 TONNE)	25	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0
DIAMOND DRILL (DIAMEC 251)	90	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
MISC MINING EQUIPMENT	75	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LIGHT VEHICLES	15	0	0	1	0	0	4	2	0	4	2	0	2	0	4	2	0	4	2	0	0
TRUCK (5 TONNE)	75	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0
DPE TRUCK (10 TONNE)	100	0	0	0	0	0	1	1	0	0	0	1	1	0	0	0	1	1	0	0	0
FEL - CAT 950B	140	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	1	0	0	0	0

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	COST 1984/5 \$	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
		-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ORE TREATMENT PLANT																							
- CRUSHING PLANT	550	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRINDING	500	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRAVITY PLANT	80	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- FLOTATION PLANT	250	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROASTING	2200	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CYANIDATION AND GOLD RECOVERY	800	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- TAILINGS DAM AND SANDFILL PLANT	1000	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ANCILLARY PIPEWORK	150	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SITE DEVELOPMENT/BUILDINGS	1000	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES																							
BUILDINGS																							
- MINE OFFICE	100	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CHANGE HOUSE	100	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXPLOSIVES MAGAZINE	50	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- WORKSHOPS/STORE	150	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SECURITY FENCING	50	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POWER																							
- 22KV FEEDER (HEC) - PRELIM	25	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 22KV FEEDER (HEC)	500	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- STANDBY GENERATOR (2MW)	530	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR - AMAX	250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR	200	0	1	1	0	0	1	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0
DEWATERING EQUIPMENT																							
- SUBMERSIBLE PUMP (RITZ 6130x8)	73	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MULTISTAGE CENTRIFUGAL PUMPS (IR 66T)	75	0	0	6	0	0	3	0	3	0	3	0	0	0	0	0	0	0	0	0	0	0	0
- PUMPS (FLYGT B2400HT)	20	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MISCELLANEOUS PUMPS	20	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- RISING MAINS	25	0	2	2	1	0	3	0	0	2	1	2	0	0	0	0	0	0	0	0	0	0	0
AIR & VENTILLATION																							
- COMPRESSORS	250	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MAIN VENTILLATION FANS	20	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMMUNICATIONS	15	0	0	1	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER INFRASTRUCTURE																							
LAND	100	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HOUSING	50	0	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE WATER CONTROL	50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BLYTHS CREEK FLUME	50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINE WATER DISCHARGE PONDS	250	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL CONTROL	10	0	5	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
SEWERAGE TREATMENT	50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MINE DEVELOPMENT																					
-ART SHAFT - ENGINE MAINTENANCE	75	55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (ORDER OF MAGNITUDE)	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE DIAMOND DRILL PROGRAM	500	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATED)	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ART SHAFT DEWATERING																					
- TENDER/MOBILISE	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HEADFRAME/WINDER	0	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEWATER/REHABILITATION	0	0	0	4000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1661R	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1655R	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- TENDER/PRESINK/HEADFRAME	0	0	1750	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (602M)	0	0	0	4950	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (500M)	0	0	0	0	1225	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	0	0	0	0	126	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1500R	0	0	0	0	1250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1500R	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	0	0	0	0	0	1175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PRODUCTION WINDER/WINDER HOUSE	0	0	0	0	0	2150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/CONVEYANCES/LOAD STATION	0	0	0	0	0	510	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	0	0	0	0	0	125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	0	0	0	0	0	0	195	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 1																					
- ORE & WASTE PASSES	0	0	0	0	0	300	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	0	0	0	0	0	1465	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	0	0	0	0	0	143	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 2																					
- TENDER/MOBILISE	0	0	0	0	0	1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (262M)	0	0	0	0	0	0	2172	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (500M)	0	0	0	0	0	0	0	1350	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1320R	0	0	0	0	0	0	0	0	1250	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1320R	0	0	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	0	0	0	0	0	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/LOAD STATION	0	0	0	0	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	0	0	0	0	0	0	0	0	0	25	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1185R	0	0	0	0	0	0	0	0	0	0	1000	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1185R	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	0	0	0	0	0	0	0	0	0	0	0	155	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 2																					
- ORE & WASTE PASSES	0	0	0	0	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	0	0	0	0	0	0	0	0	0	700	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	0	0	0	0	0	0	0	0	0	285	0	0	0	0	0	0	0	0	0	0	0
TOTAL MINE DEVELOPMENT	545	685	2700	9110	2601	7138	2268	2085	2000	1785	1530	155	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT																					
AIR LES ROCKDRILL	0	0	0	0	0	0	50	25	0	0	0	0	0	0	0	0	0	0	0	0	0
SCRAPER (15hp)	0	0	0	0	0	0	140	60	0	0	0	0	0	0	0	0	0	0	0	0	0
RAIL LOADERS (EIMCO 126)	0	0	0	0	0	0	60	40	0	0	0	0	0	0	0	0	0	0	0	0	0
DEVELOPMENT LOADER (CAVO 310)	0	0	0	0	0	0	55	55	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTERY LOCOM (3 TONNE)	0	0	0	0	0	0	135	90	0	0	0	0	0	0	0	0	0	0	0	0	0
BRANBY TRUCKS (2 TONNE)	0	0	0	0	0	0	60	40	0	0	0	0	0	0	0	0	0	0	0	0	0
TIPPING RAMP	0	0	0	0	0	0	6	3	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC RAIL EQUIPMENT	0	0	0	0	0	0	15	15	8	0	0	0	0	0	0	0	0	0	0	0	0
AUXILIARY FANS (5/10hp)	0	0	0	0	0	0	8	4	0	0	0	8	4	0	0	0	0	0	0	0	0
STOPE WINCH (1 TONNE)	0	0	0	0	0	0	18	18	0	0	0	18	18	0	0	0	0	0	0	0	0
SERVICE WINCH (3 TONNE)	0	0	0	0	0	0	25	0	0	0	0	25	0	0	0	0	0	0	0	0	0
DIAMOND DRILL (DIAMEC 251)	0	0	0	0	0	0	90	0	0	0	0	0	50	0	0	0	0	0	0	0	0
MISC MINING EQUIPMENT	0	0	0	0	0	0	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
LIGHT VEHICLES	0	0	15	0	0	60	30	0	60	30	0	60	30	0	60	30	0	60	30	0	0
TRUCK (5 TONNE)	0	0	0	0	0	0	75	0	0	0	0	75	0	0	0	0	75	0	0	0	0
ORE TRUCK (10 TONNE)	0	0	0	0	0	0	100	100	0	0	0	100	100	0	0	0	100	100	0	0	0
FEL - CAT 950B	0	0	0	0	0	0	140	0	0	0	0	140	0	0	0	0	140	0	0	0	0
TOTAL MINING EQUIPMENT	0	0	15	0	0	66	1082	525	143	105	75	501	317	75	135	105	390	235	105	75	0

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	84/5	85/6	85/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	02/4	04/5
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ORE TREATMENT PLANT																					
- CRUSHING	0	0	0	0	0	650	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRINDING	0	0	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRAVITY PLANT	0	0	0	0	0	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- FLOTATION PLANT	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROASTING	0	0	0	0	0	2200	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- OXYMATION AND GOLD RECOVERY	0	0	0	0	0	800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- TAILINGS DRY AND SANDFILL PLANT	0	0	0	0	0	1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ANCILLARY PIPEWORK	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SITE DEVELOPMENT/BUILDINGS	0	0	0	0	0	1000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ORE TREATMENT PLANT	0	0	0	0	0	5630	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES																					
BUILDINGS																					
- MINE OFFICE	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CHANGE HOUSE	0	0	0	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXPLOSIVES MAGAZINE	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- WORKSHOPS/STORE	0	0	0	0	0	150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SECURITY FENCING	0	0	50	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POWER																					
- 22KV FEEDER (HEC) - PRELIM	0	25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 22KV FEEDER (HEC)	0	0	0	0	500	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- STANDBY GENERATOR (2MW)	0	0	330	0	0	0	0	0	255	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR - AYAX	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR	0	150	150	0	0	150	0	0	150	0	150	0	0	0	0	0	0	0	0	0	0
DEWATERING EQUIPMENT																					
- SUBMERGIBLE PUMP (RITZ 6130WS)	0	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MULTISTAGE CENTRIFUGAL PUMPS (IR 66T)	0	0	450	0	0	225	0	0	225	0	225	0	0	0	0	0	0	0	0	0	0
- PUMPS (FLYGT 92400AT)	0	0	40	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MISCELLANEOUS PUMPS	0	0	0	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	0
- RISERS MAINS	0	50	50	25	0	75	0	0	50	25	50	0	0	0	0	0	0	0	0	0	0
AIR & VENTILATION																					
- COMPRESSORS	0	0	0	0	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MAIN VENTILLATION FANS	0	0	0	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMMUNICATIONS																					
	0	0	15	0	0	30	0	0	30	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL BUILDINGS/SERVICES	0	531	1345	65	520	1200	20	20	750	45	455	20	20	20	20	20	20	20	20	20	0
OTHER INFRASTRUCTURE																					
LAND	0	0	100	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HOUSING	0	50	50	0	0	100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE WATER CONTROL	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BLYTHS CREEK FLUME	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MINE WATER DISCHARGE PONDS	0	250	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENVIRONMENTAL CONTROL	0	50	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
SEWERAGE TREATMENT	0	0	0	0	0	50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OTHER INFRASTRUCTURE	0	450	150	10	10	260	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

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	84/5	85/5	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MINE DEVELOPMENT																					
HART SHAFT - ONGOING MAINTENANCE	35	37	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (ORDER OF MAGNITUDE)	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SURFACE DIAMOND DRILL PROGRAMME	500	530	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
FEASIBILITY STUDY (UPDATE)	0	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
HART SHAFT DEWATERING																					
- TENDER/MOBILISE	0	0	562	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HEADFRAME/WINDER	0	0	337	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEWATER/REHABILITATION	0	0	0	4764	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1664RL	0	0	169	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMP STATION 1669RL	0	0	0	179	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 1																					
- TENDER/PRESINK/HEADFRAME	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (605M)	0	0	0	5907	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (500M)	0	0	0	0	1546	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	0	0	0	0	159	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1500RL	0	0	0	0	1578	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1500RL	0	0	0	0	0	354	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	0	0	0	0	0	1572	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PRODUCTION WINDER/WINDER HOUSE	0	0	0	0	0	2877	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/CONVEYANCES/LOAD STATION	0	0	0	0	0	682	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	0	0	0	0	0	167	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	0	0	0	0	0	0	277	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 1																					
- ORE & WASTE PASSES	0	0	0	0	0	401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	0	0	0	0	0	1987	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	0	0	0	0	0	191	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCTION SHAFT - STAGE 2																					
- TENDER/MOBILISE	0	0	0	0	0	1338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SINK & LINE (265M)	0	0	0	0	0	0	3083	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PLAT DEVELOPMENT (800M)	0	0	0	0	0	0	0	2948	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE LOADING STATION	0	0	0	0	0	0	0	190	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1320RL	0	0	0	0	0	0	0	0	1992	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1320RL	0	0	0	0	0	0	0	0	398	0	0	0	0	0	0	0	0	0	0	0	0
- EQUIP SHAFT	0	0	0	0	0	0	0	0	797	0	0	0	0	0	0	0	0	0	0	0	0
- ROPES/LOAD STATION	0	0	0	0	0	0	0	0	0	422	0	0	0	0	0	0	0	0	0	0	0
- PERMANENT SERVICES	0	0	0	0	0	0	0	0	0	93	0	0	0	0	0	0	0	0	0	0	0
- EXCAVATE PUMP STATION 1185RL	0	0	0	0	0	0	0	0	0	0	2239	0	0	0	0	0	0	0	0	0	0
- EQUIP PUMP STATION 1185RL	0	0	0	0	0	0	0	0	0	0	448	0	0	0	0	0	0	0	0	0	0
- DEMOBILISE	0	0	0	0	0	0	0	0	0	0	0	370	0	0	0	0	0	0	0	0	0
PREPRODUCTION DEVELOPMENT - STAGE 2																					
- ORE & WASTE PASSES	0	0	0	0	0	0	0	0	0	760	0	0	0	0	0	0	0	0	0	0	0
- HORIZONTAL DEVELOPMENT	0	0	0	0	0	0	0	0	0	1255	0	0	0	0	0	0	0	0	0	0	0
- VENTILLATION RISE	0	0	0	0	0	0	0	0	0	451	0	0	0	0	0	0	0	0	0	0	0
TOTAL MINE DEVELOPMENT	545	726	3035	10850	3282	9551	3360	3137	3188	3011	2685	370	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT																					
AIR LEG ROCKDRILL	0	0	0	0	0	0	71	38	0	0	0	0	0	0	0	0	0	0	0	0	0
SCRAPER (15hp)	0	0	0	0	0	0	199	90	0	0	0	0	0	0	0	0	0	0	0	0	0
RAIL LOADERS (EIMCO 12B)	0	0	0	0	0	0	85	60	0	0	0	0	0	0	0	0	0	0	0	0	0
DEVELOPMENT LOADER (CAVO 310)	0	0	0	0	0	0	78	83	0	0	0	0	0	0	0	0	0	0	0	0	0
BATTERY LDCOS (3 TONNE)	0	0	0	0	0	0	192	135	0	0	0	0	0	0	0	0	0	0	0	0	0
GRANEY TRUCKS (2 TONNE)	0	0	0	0	0	0	85	60	0	0	0	0	0	0	0	0	0	0	0	0	0
TIPPING RAMP	0	0	0	0	0	8	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0
MISC RAIL EQUIPMENT	0	0	0	0	0	0	21	23	12	0	0	0	0	0	0	0	0	0	0	0	0
AUXILIARY FANS (5/10hp)	0	0	0	0	0	0	11	6	0	0	0	14	8	0	0	0	0	0	0	0	0
STORE WINCH (1 TONNE)	0	0	0	0	0	0	26	27	0	0	0	34	36	0	0	0	0	0	0	0	0
SERVICE WINCH (3 TONNE)	0	0	0	0	0	0	35	0	0	0	0	47	0	0	0	0	0	0	0	0	0
DIAMOND DRILL (DIAMEC 251)	0	0	0	0	0	0	128	0	0	0	0	0	161	0	0	0	0	0	0	0	0
MISC MINING EQUIPMENT	0	0	0	0	0	0	106	113	120	127	154	142	151	160	170	180	190	202	214	227	0
LIGHT VEHICLES	0	0	17	0	0	80	43	0	96	51	0	114	60	0	136	72	0	162	85	0	0
TRUCK (5 TONNE)	0	0	0	0	0	0	106	0	0	0	0	142	0	0	0	0	130	0	0	0	0
ORE TRUCK (10 TONNE)	0	0	0	0	0	0	142	150	0	0	0	190	201	0	0	0	254	269	0	0	0
FEL - CAT 950B	0	0	0	0	0	0	199	0	0	0	0	265	0	0	0	0	356	0	0	0	0
TOTAL MINING EQUIPMENT	0	0	17	0	0	88	1535	789	227	177	134	950	637	160	305	252	931	633	300	227	0

	84/5	85/5	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ORE TREATMENT PLANT																					
- CRUSHING	0	0	0	0	0	870	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRINDING	0	0	0	0	0	669	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- GRAVITY PLANT	0	0	0	0	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- FLOTATION PLANT	0	0	0	0	0	334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ROASTING	0	0	0	0	0	2944	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CRYSTALLIZATION AND GOLD RECOVERY	0	0	0	0	0	1070	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- TAILINGS DAM AND SANDFILL PLANT	0	0	0	0	0	1338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ANCILLARY PIPEWORK	0	0	0	0	0	291	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SITE DEVELOPMENT/BUILDINGS	0	0	0	0	0	1338	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ORE TREATMENT PLANT	0	0	0	0	0	8871	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES																					
BUILDINGS																					
- MINE OFFICE	0	0	0	0	0	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- CHANGE HOUSE	0	0	0	0	0	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- EXPLOSIVES MAGAZINE	0	0	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- WORKSHOPS/STORE	0	0	0	0	0	201	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SECURITY FENCING	0	0	56	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
POWER																					
- 22KV FEEDER (HEC) - PRELIM	0	27	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 22KV FEEDER (HEC)	0	0	0	0	631	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- STANDBY GENERATOR (2MW)	0	0	596	0	0	0	0	0	422	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR - AMAX	0	265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- RETICULATION/SWITCHGEAR	0	170	180	0	0	214	0	0	255	0	237	0	0	0	0	0	0	0	0	0	0
DEWATERING EQUIPMENT																					
- SUBMERSIBLE PUMP (RITZ 6130x8)	0	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MULTISTAGE CENTRIFUGAL PUMPS (IR 6ST)	0	0	506	0	0	301	0	0	353	0	403	0	0	0	0	0	0	0	0	0	0
- PUMPS (FLYGT B2400-4T)	0	0	45	0	0	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MISCELLANEOUS PUMPS	0	0	0	24	25	27	28	30	32	34	36	38	40	43	45	48	51	54	57	61	0
- RISING MAINS	0	53	55	30	0	100	0	0	80	42	90	0	0	0	0	0	0	0	0	0	0
AIR & VENTILLATION																					
- COMPRESSORS	0	0	0	0	0	334	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MAIN VENTILLATION FANS	0	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
COMMUNICATIONS																					
	0	0	17	0	0	40	0	0	48	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL BUILDINGS/SERVICES	0	669	1512	101	656	1606	28	30	1195	76	815	38	40	43	45	48	51	54	57	61	0
OTHER INFRASTRUCTURE																					
LAND																					
- HOUSING	0	53	56	0	0	134	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- SURFACE WATER CONTROL	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- BLYTHS CREEK FLUME	0	53	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- MINE WATER DISCHARGE PONDS	0	265	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- ENVIRONMENTAL CONTROL	0	53	0	12	13	13	14	15	16	17	18	19	20	21	23	24	25	27	29	30	32
- SEWERAGE TREATMENT	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL OTHER INFRASTRUCTURE	0	477	169	12	13	348	14	15	16	17	18	19	20	21	23	24	25	27	29	30	32

WILSON FIELD PROJECT
CAPITAL EXPENDITURE SUMMARIES AND DEPRECIATION

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	91/3	92/4	93/5	94/6	95/7	96/8	97/9	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-5	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	15	
CAPITAL EXPENDITURE SUMMARY																							
WINE DEVELOPMENT	545	655	2700	9110	2501	7138	2268	2086	2000	1785	1500	195	0	0	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT	0	0	15	0	0	66	1062	525	143	105	75	501	317	75	135	105	390	225	108	75	0	0	0
DRE TREATMENT PLANT	0	0	0	0	0	5833	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES	0	631	1348	55	530	1200	30	20	750	45	455	20	20	20	20	20	20	20	20	20	20	20	20
OTHER INFRASTRUCTURE	0	450	150	10	10	250	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
DIRECT CAPITAL	545	1755	4210	9235	3101	15284	3690	2841	2902	1943	2940	725	347	105	165	135	420	285	135	105	10	0	0
DESIGN & PROJECT MANAGEMENT																							
- 10% ON DIRECT CAPITAL (EXC MINING EQUIPMENT)	265	659	1291	470	2164	350	317	414	275	295	34	5	5	5	5	5	5	5	5	5	2	0	0
CONTINGENCY																							
- 20% ON WINE DEVELOPMENT	109	177	540	1822	500	1403	474	417	400	257	300	39	0	0	0	0	0	0	0	0	0	0	0
- 10% ON MINING EQUIPMENT	0	0	0	0	0	54	22	7	5	4	25	16	4	7	5	5	19	12	5	4	0	0	0
- 10% ON DRE PLANT/BUILDINGS/INFRASTRUCTURE	0	152	224	14	30	1213	1	114	9	70	5	5	5	5	5	5	5	5	5	5	2	0	0
TOTAL CAPITAL	919	2594	6356	11511	6015	19288	4309	3503	3699	2608	2447	799	372	118	181	149	449	285	149	115	10	0	0
CAPITAL - TAX DEPRECIATION SUMMARY																							
WINE DEVELOPMENT - 10% B/L+	757	1227	4836	11332	4192	8921	3154	2803	2667	2365	1829	224	0	0	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT - 20% B/L+	0	0	15	0	0	66	1066	551	150	110	79	526	333	79	142	110	409	247	110	79	0	0	0
DRE TREATMENT PLANT - 20% B/L+	0	0	0	0	0	572	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES - 10% B/L+	0	0	0	0	0	313	2473	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER INFRASTRUCTURE - 10% B/L+	0	44	115	75	625	460	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL CAPITAL	919	2594	6356	11511	6015	13283	4309	3503	3589	2508	2447	799	372	118	181	149	448	285	149	115	10	0	0
DEPRECIATION																							
20% B/L DEPRECIATION																							
- OPENING BALANCE	0	91	975	3455	2675	3391	9495	3215	6943	5490	3101	1187	1100	306	641	451	323	518	555	474	353	170	170
- EXPENDITURE	91	684	1460	104	615	6144	1162	465	1815	130	605	550	259	102	158	135	435	272	136	102	0	0	0
- DEPRECIATION	0	0	0	0	0	2131	2169	2472	2519	2539	618	553	370	358	354	241	223	230	215	188	0	0	0
- CLOSING BALANCE	91	975	2435	2536	3391	9495	6025	6943	5490	3291	1187	1100	966	641	451	323	518	555	474	353	170	170	170
10% B/L DEPRECIATION																							
- OPENING BALANCE	0	71	655	944	1072	2040	5273	4757	4341	3722	3203	3632	2160	1637	1112	586	59	59	59	59	59	59	57
- EXPENDITURE	71	584	265	68	1008	3103	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
- DEPRECIATION	0	0	0	0	0	529	530	531	532	524	535	535	518	539	540	515	515	515	515	515	515	515	515
- CLOSING BALANCE	71	655	944	1072	2040	5273	4757	4341	3722	3203	2682	2150	1637	1112	586	59	59	59	59	59	59	59	57
10% B/L DEPRECIATION (ON EXPENDITURE)																							
- OPENING BALANCE	0	757	1785	5733	15264	17265	23064	22600	21905	20507	18771	16215	12340	8491	5875	3677	2372	1332	673	330	11	0	0
- EXPENDITURE	757	1227	4806	11332	4152	8501	3154	2803	2667	2365	1829	224	0	0	0	0	0	0	0	0	0	0	0
- DEPRECIATION	0	199	359	1791	2210	3103	3418	3598	3965	4201	4384	4209	3743	2817	2197	1505	540	711	445	225	11	0	0
- CLOSING BALANCE	757	1785	5733	15264	17265	23064	22600	21905	20507	18771	16215	12240	8491	5875	3677	2372	1332	673	330	11	0	0	0
DEPRECIATION SUMMARY																							
- OPENING BALANCE	0	919	3415	9112	16831	22539	37831	36983	35039	29819	25175	20064	15500	11033	7827	4714	2754	1959	1159	762	44	0	0
- EXPENDITURE	919	2694	6356	11511	6015	18298	4309	3503	3699	2608	2447	799	372	118	181	149	448	285	149	115	10	0	0
- DEPRECIATION	0	198	659	1791	2210	3103	6078	6497	5969	7252	7559	5353	4873	3524	3094	2109	1243	345	695	425	11	0	0
- CLOSING BALANCE	919	3415	9112	16831	22636	37831	36983	35039	29819	25175	20064	15500	11033	7827	4714	2754	1959	1159	762	44	0	0	0

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BEACONSFIELD PROJECT
CAPITAL EXPENDITURE SUMMARIES AND DEPRECIATION

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
CAPITAL EXPENDITURE SUMMARY																					
MINE DEVELOPMENT	545	725	3035	10870	3262	3551	3350	3137	3188	3011	2585	370	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT	0	0	17	0	0	68	1535	769	227	177	134	950	637	160	305	252	991	633	300	227	0
ORE TREATMENT PLANT	0	0	0	0	0	9371	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES	0	659	1512	101	556	1636	28	30	1139	75	815	38	40	43	45	48	51	54	57	61	0
OTHER INFRASTRUCTURE	0	477	159	12	13	243	14	15	16	17	19	19	20	21	23	24	25	27	29	30	32
DIRECT CAPITAL	545	1372	4722	10952	3551	20453	4937	3972	4627	3282	3654	1377	598	224	373	324	1067	714	385	318	32
DESIGN & PROJECT MANAGEMENT																					
- 45% ON DIRECT CAPITAL (EXC MINING EQUIPMENT)	281	707	1644	493	2056	510	477	550	466	529	54	9	10	10	11	11	12	13	14	5	0
CONTINGENCY																					
- 20% ON MINE DEVELOPMENT	109	145	507	2170	556	1910	572	627	638	602	537	74	0	0	0	0	0	0	0	0	0
- 5% ON MINING EQUIPMENT	0	0	1	0	0	4	77	39	11	9	7	47	32	8	15	13	50	32	15	11	0
- 15% ON ORE PLANT/BUILDINGS/INFRASTRUCTURE	0	172	252	17	109	1624	6	7	182	14	125	9	9	10	10	11	11	12	13	14	5
TOTAL CAPITAL	935	2896	7235	13743	7764	24512	6170	5305	5923	4435	4387	1516	748	252	409	358	1140	770	427	348	37

CAPITAL - TAX DEPRECIATION SUMMARY																					
MINE DEVELOPMENT - 10% S/L+	753	1327	5259	13512	5372	11965	4503	4243	4277	4017	3279	444	0	0	0	0	0	0	0	0	0
MINING EQUIPMENT - 20% S/L+	0	0	18	0	0	93	1511	829	239	186	141	997	669	168	320	264	1040	664	315	238	0
ORE TREATMENT PLANT - 20% S/L+	0	0	0	0	0	639	6893	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- 10% S/L+	0	0	0	0	452	3508	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ANCILLARY BUILDINGS/SERVICES - 20% S/L+	96	949	1624	120	190	1235	37	214	1386	210	943	50	53	56	53	56	56	71	75	70	0
- 10% S/L+	4	47	123	95	806	515	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
OTHER INFRASTRUCTURE - 10% S/L+	72	574	196	16	57	402	19	20	21	22	23	25	26	28	30	31	33	35	37	40	37
TOTAL CAPITAL	935	2896	7235	13743	7764	24512	6170	5305	5923	4435	4387	1516	748	252	409	358	1140	770	427	348	37

DEPRECIATION																						
20% S/L DEPRECIATION																						
- OPENING BALANCE	0	96	1045	2587	2807	3896	12117	11013	9094	7432	4462	1953	1971	1718	1248	936	723	1278	1459	1251	995	487
- EXPENDITURE	96	949	1642	120	1689	8221	1549	1043	1625	396	1084	1047	722	224	380	327	1107	735	389	308	0	0
- DEPRECIATION	0	0	0	0	0	0	2753	2362	3287	3366	3583	1039	975	595	691	540	552	554	588	573	508	0
- CLOSING BALANCE	96	1045	2687	2807	3896	12117	11013	9094	7432	4462	1953	1971	1718	1248	936	723	1278	1459	1251	995	487	
10% S/L DEPRECIATION																						
- OPENING BALANCE	0	76	697	1022	1132	2436	6762	6102	5442	4781	4119	3455	2791	2126	1459	791	122	129	137	145	154	158
- EXPENDITURE	76	621	325	110	1304	4326	19	20	21	22	23	25	26	28	30	31	33	35	37	40	37	
- DEPRECIATION	0	0	0	0	0	0	678	580	682	694	657	589	632	595	598	701	26	27	29	31	32	
- CLOSING BALANCE	76	697	1022	1132	2436	6762	6102	5442	4781	4119	3455	2791	2126	1459	791	122	129	137	145	154	158	
10% S/L DEPRECIATION (ON EXPENDITURE)																						
- OPENING BALANCE	0	763	1881	6414	17639	20586	28731	28962	28510	27664	26156	23583	18339	13178	9368	6095	4019	2393	1191	417	44	0
- EXPENDITURE	763	1327	5269	13512	5372	11965	4503	4243	4277	4017	3279	444	0	0	0	0	0	0	0	0	0	
- DEPRECIATION	0	209	736	2087	2624	3821	4271	4695	5123	5325	5853	5688	5161	3810	3273	2675	1625	1202	774	372	44	
- CLOSING BALANCE	763	1881	6414	17639	20586	28731	28962	28510	27664	26156	23583	18339	13178	9368	6095	4019	2393	1191	417	44	0	

DEPRECIATION SUMMARY																						
- OPENING BALANCE	0	955	3522	10123	21778	26919	47610	46077	43046	39877	34737	29001	23101	17022	12075	7822	4864	3800	2786	1822	1155	646
- EXPENDITURE	935	2896	7235	13743	7764	24512	6170	5305	5923	4435	4387	1516	748	252	409	358	1140	770	427	348	37	
- DEPRECIATION	0	209	736	2087	2624	3821	4271	4695	5123	5325	5853	5688	5161	3810	3273	2675	1625	1202	774	372	44	
- CLOSING BALANCE	935	3522	10123	21778	26919	47610	46077	43046	39877	34737	29001	23101	17022	12075	7822	4864	3800	2786	1822	1193	646	

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BEACONSFIELD PROJECT
PRODUCTIVITY AND MINE OPERATING COST PARAMETERS

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
LABOUR PRODUCTIVITY																						
MINE PRODUCTION																						
- WORKING DAYS PER YEAR	0	0	0	0	0	0	250	250	250	250	250	250	250	250	250	250	250	250	250	250	250	0
- SHIFTS PER DAY	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
- SHIFTS PER YEAR	0	0	0	0	0	0	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	0
DIAMOND DRILLING																						
- #/MAN SHIFT	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0	0
- MAN SHIFTS/DAY	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0
- # DRILLED /YEAR	0	0	0	0	0	0	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	0	0
STOPING																						
- TONNES/MAN SHIFT	0	0	0	0	0	0	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	0
DEVELOPMENT - DRIVE & CROSS-CUT																						
- #/MAN SHIFT	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
- MAN SHIFTS/DAY	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0	0
- # DRIVE & CROSS-CUT/YEAR	0	0	0	0	0	0	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	1400	0	0
DEVELOPMENT - RISING																						
- #/MAN SHIFT	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0
- MAN SHIFTS/DAY	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0
- # RISE/YEAR	0	0	0	0	0	0	350	350	350	350	350	350	350	350	350	350	350	350	350	350	0	0
MINE OPERATING COST PARAMETERS																						
DIAMOND DRILLING (\$/M)																						
	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	0.0	0.0
STOPING - CUT & FILL (\$/TONNE)																						
- EXPLOSIVES	0.0	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	0.0
- GROUND SUPPORT	0.0	0.0	0.0	0.0	0.0	0.0	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	0.0
- DRILL STEEL	0.0	0.0	0.0	0.0	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	0.0
- FILL PREP	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.0
- MISC CONSUMABLES	0.0	0.0	0.0	0.0	0.0	0.0	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0
TOTAL STOPING - CUT & FILL (\$/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	0.0
DEVELOPMENT - DRIVE & CROSS CUT (\$/M)																						
- EXPLOSIVES	0.0	0.0	0.0	0.0	0.0	0.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	73.0	0.0	0.0
- GROUND SUPPORT	0.0	0.0	0.0	0.0	0.0	0.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	31.0	0.0
- DRILL STEEL	0.0	0.0	0.0	0.0	0.0	0.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	82.0	0.0
- SERVICES	0.0	0.0	0.0	0.0	0.0	0.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	0.0
- MISC CONSUMABLES	0.0	0.0	0.0	0.0	0.0	0.0	65.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	66.5	0.0
TOTAL DEVELOPMENT - DRIVE & CROSS CUT (\$/M)	0.0	0.0	0.0	0.0	0.0	0.0	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	332.5	0.0
DEVELOPMENT - RISING (\$/M)																						
- EXPLOSIVES	0.0	0.0	0.0	0.0	0.0	0.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	0.0	0.0
- GROUND SUPPORT	0.0	0.0	0.0	0.0	0.0	0.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	0.0
- DRILL STEEL	0.0	0.0	0.0	0.0	0.0	0.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	0.0
- SERVICES	0.0	0.0	0.0	0.0	0.0	0.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	65.0	0.0
- MISC CONSUMABLES	0.0	0.0	0.0	0.0	0.0	0.0	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	41.3	0.0
TOTAL DEVELOPMENT - RISING (\$/M)	0.0	0.0	0.0	0.0	0.0	0.0	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	206.3	0.0
MINING SERVICES (\$/TONNE)																						
	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0

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CONSOLIDATED MINE OPERATING COSTS (M)

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
MINE OPERATING COSTS (\$000)																						
DIAMOND DRILLING (\$000)	0	0	0	0	0	0	100	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0
STOPPING - CUT & FILL																						
- EXPLOSIVES	0	0	0	0	0	0	49	148	165	165	165	165	165	165	165	165	165	155	165	165	165	
- GROUND SUPPORT	0	0	0	0	0	0	73	219	244	244	244	244	244	244	244	244	244	244	244	244	244	
- DRILL STEEL	0	0	0	0	0	0	90	270	300	300	300	300	300	300	300	300	300	300	300	300	300	
- FILL PREP	0	0	0	0	0	0	20	61	67	67	67	67	67	67	67	67	67	67	67	67	67	
- MISC CONSUMABLES	0	0	0	0	0	0	58	175	194	194	194	194	194	194	194	194	194	194	194	194	194	
TOTAL STOPPING - CUT & FILL (\$000)	0	0	0	0	0	0	291	873	970	970	970	970	970	970	970	970	970	970	970	970	970	
DEVELOPMENT - DRIVE & CROSS-CUT																						
- EXPLOSIVES	0	0	0	0	0	0	102	102	102	102	102	102	102	102	102	102	102	102	102	0	0	
- GROUND SUPPORT	0	0	0	0	0	0	43	43	43	43	43	43	43	43	43	43	43	43	43	0	0	
- DRILL STEEL	0	0	0	0	0	0	115	115	115	115	115	115	115	115	115	115	115	115	115	0	0	
- SERVICES	0	0	0	0	0	0	112	112	112	112	112	112	112	112	112	112	112	112	112	0	0	
- MISC CONSUMABLES	0	0	0	0	0	0	93	93	93	93	93	93	93	93	93	93	93	93	93	0	0	
TOTAL DEVELOPMENT - DRIVE & CROSS CUT (\$000)	0	0	0	0	0	0	465	465	465	465	465	465	465	465	465	465	465	465	465	0	0	
DEVELOPMENT - RISING																						
- EXPLOSIVES	0	0	0	0	0	0	16	16	16	16	16	16	16	16	16	16	16	16	16	0	0	
- GROUND SUPPORT	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	0	0	
- DRILL STEEL	0	0	0	0	0	0	14	14	14	14	14	14	14	14	14	14	14	14	14	0	0	
- SERVICES	0	0	0	0	0	0	23	23	23	23	23	23	23	23	23	23	23	23	23	0	0	
- MISC CONSUMABLES	0	0	0	0	0	0	14	14	14	14	14	14	14	14	14	14	14	14	14	0	0	
TOTAL DEVELOPMENT - RISING (\$000)	0	0	0	0	0	0	72	72	72	72	72	72	72	72	72	72	72	72	72	0	0	
MINING SERVICES (\$000)	0	0	0	0	0	0	22	67	75	75	75	75	75	75	75	75	75	75	75	75	75	
MINING COST SUMMARY (\$/T)																						
DIAMOND DRILLING	0.0	0.0	0.0	0.0	0.0	0.0	4.4	1.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	
STOPPING - CUT & FILL	0.0	0.0	0.0	0.0	0.0	0.0	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	
DEVELOPMENT - DRIVE & CROSS-CUT	0.0	0.0	0.0	0.0	0.0	0.0	20.7	6.9	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	0.0	0.0	
DEVELOPMENT - RISING	0.0	0.0	0.0	0.0	0.0	0.0	3.2	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	
MINING SERVICES	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
TOTAL MINING COST (\$/TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	42.3	23.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4	13.9	13.9	
ENGINEERING (MINE MAINTENANCE) (\$000)																						
MINING EQUIPMENT																						
- AIR LEG ROCKDRILL	0.0	0.0	0.0	0.0	0.0	0.0	90.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	67.5	67.5	
- SCRAPER (15hp)	0.0	0.0	0.0	0.0	0.0	0.0	28.7	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	41.0	
- RAIL LOADERS (EIMCO 12B)	0.0	0.0	0.0	0.0	0.0	0.0	15.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	
- DEVELOPMENT LOADER (CAVO 310)	0.0	0.0	0.0	0.0	0.0	0.0	14.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	28.0	14.0	14.0	
- BATTERY LOCS (3 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	45.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	
- GRABBY TRUCKS (2 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	7.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	
- MISC RAIL EQUIPMENT	0.0	0.0	0.0	0.0	0.0	0.0	2.5	5.0	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	
- AUXILIARY FANS (5/10hp)	0.0	0.0	0.0	0.0	0.0	0.0	1.5	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	
- STOPE WINCH (1 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	2.2	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	
- SERVICE WINCH (3 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	
- LIGHT VEHICLES	0.0	0.0	5.0	5.0	5.0	20.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0	
- TRUCK (5 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	
- ORE TRUCK (10 TONNE)	0.0	0.0	0.0	0.0	0.0	0.0	17.5	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	35.0	
- FEL (CAT 950B)	0.0	0.0	0.0	0.0	0.0	0.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	
TOTAL MINING EQUIPMENT MAINTENANCE (\$000)	0.0	0.0	5.0	5.0	5.0	20.0	284.0	423.2	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	424.5	330.5	330.5	
ENGINEERING (SERVICES)																						
- HOISTING (ROSES/LINERS)	0.0	0.0	0.0	0.0	0.0	0.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0	
- PUMPS (1R 6GT)	0.0	0.0	120.0	120.0	120.0	180.0	180.0	180.0	240.0	240.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	300.0	
- PUMPS (FLYBT)	0.0	0.0	10.0	10.0	10.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
- PUMPS (MISCELLANEOUS)	0.0	0.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
- COMPRESSOR	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
- STRANDEY GENERATOR	0.0	0.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	0.0	0.0	
- MAIN VENTILATION FANS	0.0	0.0	0.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	
- BUILDINGS/HOUSES	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	
- CONTRACT MAINTENANCE	0.0	0.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	
TOTAL ENGINEERING (SERVICES) (\$000)	0.0	0.0	237.0	241.0	241.0	311.0	422.0	422.0	482.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	542.0	530.0	530.0	

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
POWER (EXCL ORE TREATMENT PLANT)																						
CONNECTED LOAD (KW)																						
- PUMPS (RTZ)	0	0	940	940	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMPS (IR 6GT)	0	0	0	900	900	2700	2700	2700	2700	3600	3600	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500
- PUMPS (FLYBT)	0	0	0	180	180	360	360	360	360	360	360	360	360	360	360	360	360	360	350	360	360	360
- PUMP CONTINGENCY	0	0	47	101	54	153	153	153	153	198	198	243	243	243	243	243	243	243	243	243	243	243
TOTAL PUMPS (KW)	0	0	987	2121	1134	3213	3213	3213	3213	4158	4158	5103	5103	5103	5103	5103	5103	5103	5103	5103	5103	0
OTHER (KW)																						
- PRODUCTION WINDER	0	0	0	0	0	0	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400	400
- HART SHAFT WINDER	0	0	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165	165
- OVERHEAD CRANE	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
- COMPRESSOR	0	0	0	0	0	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625	625
- VENTILLATION	0	0	50	50	50	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
- SURFACE LIGHTING	0	0	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
- WELDING	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
- UNDERGROUND LIGHTING	0	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
- SCRAPERS	0	0	0	0	0	0	30	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
- DIAMOND DRILL	0	0	0	0	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
- TRANSFORMER LOSSES	0	0	50	50	50	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
- CONTINGENCY	0	0	35	38	38	105	154	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
TOTAL OTHER (KW)	0	0	385	418	418	1189	1639	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	1732	0
PEAK DEMAND (KW)	0	0	1295	2453	1463	4141	4573	4599	4599	5544	5544	6489	6489	6489	6489	6489	6489	6489	6489	6489	6489	0
TARIFF @ \$/KW/CTR	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70	22.70
TOTAL DEMAND COST (\$000)	0.0	0.0	117.6	223.0	133.3	378.0	415.2	417.6	417.6	503.4	503.4	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	589.2	0.0
CONSUMPTION (MWH)																						
- PUMPS (RTZ)	0	0	3870	3370	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
- PUMPS (IR 6GT)	0	0	0	5800	5800	13800	13800	13800	13800	18600	18600	23000	23000	23000	23000	23000	23000	23000	23000	23000	23000	23000
- PUMPS (FLYBT)	0	0	0	800	800	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600	1600
- PUMP CONTINGENCY	0	0	193	523	230	770	770	770	770	1000	1000	1230	1230	1230	1230	1230	1230	1230	1230	1230	1230	0
TOTAL PUMPS (MWH)	0	0	4063	10993	6930	16170	16170	16170	16170	21000	21000	25830	25830	25830	25830	25830	25830	25830	25830	25830	25830	0
OTHER (MWH)																						
- PRODUCTION WINDER	0	0	0	0	0	0	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
- HART SHAFT WINDER	0	0	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
- OVERHEAD CRANE	0	0	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
- COMPRESSOR	0	0	0	0	0	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875	1875
- VENTILLATION	0	0	440	440	440	830	830	830	830	830	830	830	830	830	830	830	830	830	830	830	830	830
- SURFACE LIGHTING	0	0	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110	110
- WELDING	0	0	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
- UNDERGROUND LIGHTING	0	0	0	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180	180
- SCRAPERS	0	0	0	0	0	0	45	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
- DIAMOND DRILL	0	0	0	0	0	0	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
- TRANSFORMER LOSSES	0	0	440	440	440	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
- CONTINGENCY	0	0	107	125	125	357	407	411	411	411	411	411	411	411	411	411	411	411	411	411	411	411
TOTAL OTHER (MWH)	0	0	1182	1380	1380	3927	4477	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	4526	0
TOTAL CONSUMPTION (MWH)	0	0	5246	12374	8310	20097	20647	20696	20696	25526	25526	30356	30356	30356	30356	30356	30356	30356	30356	30356	30356	0
TARIFF @ \$/MWH	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
TOTAL CONSUMPTION COST (\$000)	0.0	0.0	173.1	408.3	274.2	663.2	681.4	693.0	693.0	842.4	842.4	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	1001.8	0.0
TOTAL POWER COST (EXCL ORE TREATMENT PLANT)	0.0	0.0	290.7	631.3	407.6	1039.2	1036.5	1100.6	1100.6	1345.9	1345.9	1591.0	0.0									

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
ORE TREATMENT PLANT REAGENT/MATERIALS/POWER CONSUMPTION																					
- GRINDING BALLS & LINERS (KG/T ORE FEED)	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
- POWER CONSUMPTION (KWH/T ORE FEED)	0.0	0.0	0.0	0.0	0.0	0.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
- FLOTATION LIME (KG/T FLOTATION FEED)	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
- FLOTATION COLLECTOR (GM/T FLOTATION FEED)	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
- FLOTATION FROTHER (GM/T FLOTATION FEED)	0.0	0.0	0.0	0.0	0.0	0.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0	50.0
- SODIUM CYANIDE (KG/T CALCINE)	0.0	0.0	0.0	0.0	0.0	0.0	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
- CYANIDATION LIME (KG/T CALCINE)	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
ORE TREATMENT PLANT - REAGENT/MATERIAL COST (\$/UNIT) AND CONSUMPTION																					
- GRINDING BALLS & LINERS (TONNES)	1200.0	0.0	0.0	0.0	0.0	0.0	34.5	102.0	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5
- POWER (C/KWH AND MWH)	3.3	0.0	0.0	0.0	0.0	0.0	1725.0	5100.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0	5625.0
- FLOTATION LIME (TONNES)	130.0	0.0	0.0	0.0	0.0	0.0	22.0	67.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
- FLOTATION COLLECTOR (TONNES)	2500.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
- FLOTATION FROTHER (TONNES)	2000.0	0.0	0.0	0.0	0.0	0.0	1.1	3.4	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
- SODIUM CYANIDE (TONNES)	1500.0	0.0	0.0	0.0	0.0	0.0	9.3	28.9	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3	32.3
- CYANIDATION LIME (TONNES)	130.0	0.0	0.0	0.0	0.0	0.0	1.5	5.1	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
ORE TREATMENT PLANT REAGENT/MATERIALS COSTS (\$000 NON ESC)																					
- GRINDING BALLS & LINERS	0.0	0.0	0.0	0.0	0.0	0.0	41.4	122.4	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0	135.0
- FLOTATION LIME	0.0	0.0	0.0	0.0	0.0	0.0	2.9	8.7	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
- FLOTATION COLLECTOR	0.0	0.0	0.0	0.0	0.0	0.0	2.8	8.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4	9.4
- FLOTATION FROTHER	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
- SODIUM CYANIDE	0.0	0.0	0.0	0.0	0.0	0.0	14.0	43.3	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4	48.4
- CYANIDATION LIME	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
ORE PLANT REAGENT/MATERIAL COST (\$000 NON ESC)	0.0	0.0	0.0	0.0	0.0	0.0	63.4	190.2	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8
ORE TREATMENT PLANT OPERATING COSTS (\$000 NON ESC)																					
- REAGENTS/MATERIALS	0.0	0.0	0.0	0.0	0.0	0.0	63.4	190.2	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8	210.8
- POWER	0.0	0.0	0.0	0.0	0.0	0.0	64.3	176.3	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6	193.6
- SPARES	0.0	0.0	0.0	0.0	0.0	0.0	46.0	136.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0	150.0
- ASSAYING	0.0	0.0	0.0	0.0	0.0	0.0	23.0	68.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
- SUNDRIES	0.0	0.0	0.0	0.0	0.0	0.0	34.5	102.0	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5	112.5
ORE PLANT OPERATING COSTS (\$000 NON ESC)	0.0	0.0	0.0	0.0	0.0	0.0	231.9	672.5	741.9												
ORE PLANT OPERATING COSTS (%T ORE TREATED)	0.00	0.00	0.00	0.00	0.00	0.00	10.08	9.89													

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84/5 85/6 86/7 87/8 88/9 89/90 90/1 91/2 92/3 93/4 94/5 95/6 96/7 97/8 98/9 99/00 00/1 01/2 02/3 02/4 04/5

ADMINISTRATION

STAFF

- MINE MANAGER
- CONTROLLER
- EMPLOYEE RELATIONS OFFICER
- PURCHASING OFFICER
- PAYMASTER
- STOREMAN

75	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
44	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
31	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
28	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
22	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
24	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

AWARD

- STORES LABOURER
- ACCOUNTS CLERK
- TYPIST/RECEPTIONIST
- GENERAL CLERK

22	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
17	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

TOTAL ADMINISTRATION STAFF
TOTAL ADMINISTRATION AWARD

0	0	0	0	0	1	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0
0	0	0	0	0	1	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0

MINE

TECHNICAL & SUPERVISION

- MINE SUPERINTENDENT
- MINE PLANNING ENGINEER
- MINE FOREMAN
- MINE SUPERVISORS
- BRAFTSMAN
- SURVEYOR
- CHAINMAN

55	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
35	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
37	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
30	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
25	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
26	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
18	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

GEOLOGY

- MINE GEOLOGIST
- SAMPLER
- DIAMOND DRILLERS

35	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
20	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
28	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0

STOPING

- STONE MINERS
- FILL PREP TIMBERMEN
- FILL OPERATORS

38	0	0	0	0	0	0	8	20	24	24	24	24	24	24	24	24	24	24	24	24	0
30	0	0	0	0	0	0	2	4	4	4	4	4	4	4	4	4	4	4	4	4	0
25	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0

DEVELOPMENT

- DRIVING
- RISING

38	0	0	0	0	0	0	8	8	8	8	8	8	8	8	8	8	8	8	8	0	0
38	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0

RAIL TRUCKING

- TRUCKERS

25	0	0	0	0	0	0	4	8	8	8	8	8	8	8	8	8	8	8	8	8	0
----	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

HOISTING

- WINDER DRIVERS
- BRACEMAN
- CAGE/SKIP OPERATORS

28	0	0	0	2	2	2	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0
25	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
25	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0

MINING SERVICES

- PIPEFITTERS
- PLATELAYERS
- LEVEL TIMBERMEN
- LABOURERS
- TRUCK DRIVERS
- FIRST AID/CHANGEHOUSE

25	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
25	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
25	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
25	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	0
25	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0

RELIEF OPERATORS

30	0	0	0	0	0	0	8	11	12	12	12	12	12	12	12	12	12	12	10	10	0
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TOTAL MINING STAFF
TOTAL MINING AWARD

0	0	1	1	1	2	5	9	9	9	9	9	9	9	9	9	9	9	9	9	9	0
0	0	0	0	2	2	2	52	77	82	82	82	82	82	82	82	82	82	82	66	69	0

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
ORE TREATMENT PLANT																						
STAFF																						
- PLANT SUPERINTENDENT	50	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- PLANT METALLURGIST/FOREMAN	35	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- CHEMIST	30	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- SHIFT FOREMEN	30	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0
AWARD																						
- SAMPLE PREP/ASSAYERS	25	0	0	0	0	0	0	3	4	5	5	5	5	5	5	5	5	5	5	5	5	0
- METALLURGICAL CLERK/SECRETARY	17	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- CRUSHER OPERATORS	25	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- GRINDING/FLOTATION/FILTRATION OPS	25	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0
- ROASTER OPERATORS	25	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
- CYANIDATION/TAILINGS DISPOSAL OPS	25	0	0	0	0	0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0
- DESORPTION/GOLD ROOM OPS	25	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- LABOURERS	25	0	0	0	0	0	0	1	2	2	2	2	2	2	2	2	2	2	2	2	2	0
- RELIEF OPERATORS	25	0	0	0	0	0	0	3	4	4	4	4	4	4	4	4	4	4	4	4	4	0
TOTAL METALLURGICAL STAFF	0	0	0	0	0	0	2	7	7	7	7	7	7	7	7	7	7	7	7	7	7	0
TOTAL METALLURGICAL AWARD	0	0	0	0	0	0	0	25	28	29	29	29	29	29	29	29	29	29	29	29	29	0
ENGINEERING/SERVICES																						
TECHNICAL & SUPERVISION																						
- CHIEF ENGINEER	55	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- MECHANICAL FOREMAN	35	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- ELECTRICAL FOREMAN	35	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
MAINTENANCE																						
- ELECTRICAL TRADESMEN	25	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
- MECHANICAL TRADESMEN (MINE)	25	0	0	0	0	0	1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0
- MECHANICAL TRADESMEN (ORE PLANT)	25	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- TRADES ASSISTANTS	23	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
- ROCK DRILL FITTERS	25	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
- PUMP OPERATORS	23	0	0	3	3	3	3	5	5	5	5	5	5	5	5	5	5	5	5	5	5	0
- RELIEF TRADESMEN	25	0	0	0	0	0	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
TOTAL ENGINEERING STAFF	0	0	1	1	1	1	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	0
TOTAL ENGINEERING AWARD	0	0	0	3	3	3	6	21	21	21	21	21	21	21	21	21	21	21	21	21	13	0
TOTAL MINE WORKFORCE	0	0	2	5	7	10	25	127	155	161	161	161	161	161	161	161	161	161	161	147	139	0

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
OPERATING COST SUMMARY (\$000 NON ESC)																						
STOPPING - CUT & FILL	0	0	0	0	0	0	231	873	970	970	970	970	970	970	970	970	970	970	970	970	970	0
DEVELOPMENT - DRIVE & CROSS CUT	0	0	0	0	0	0	466	466	466	466	466	466	466	466	466	466	466	466	466	466	0	0
DEVELOPMENT - RISING	0	0	0	0	0	0	72	72	72	72	72	72	72	72	72	72	72	72	72	72	0	0
MINING SERVICES	0	0	0	0	0	0	22	67	75	75	75	75	75	75	75	75	75	75	75	75	75	0
ENGINEERING - MINE EQUIPMENT	0	0	5	5	5	20	284	423	425	425	425	425	425	425	425	425	425	425	425	425	331	331
ENGINEERING - SERVICES	0	0	237	241	241	311	422	422	482	482	542	542	542	542	542	542	542	542	542	542	530	530
POWER	0	0	291	631	408	1039	1097	1101	1101	1346	1346	1591	1591	1591	1591	1591	1591	1591	1591	1591	1591	1591
ORE TREATMENT PLANT	0	0	0	0	0	0	232	672	742	742	742	742	742	742	742	742	742	742	742	742	742	0
DIRECT LABOUR																						
- ADMINISTRATION	0	0	0	0	92	241	296	296	296	296	296	296	296	296	296	296	296	296	296	296	296	0
- MINING	0	55	55	110	145	243	1908	2708	2888	2888	2888	2888	2888	2888	2888	2888	2888	2888	2888	2888	2338	2338
- METALLURGICAL	0	0	0	0	0	85	852	927	952	952	952	952	952	952	952	952	952	952	952	952	952	0
- ENGINEERING	0	55	123	123	123	268	630	630	630	630	630	630	630	630	630	630	630	630	630	630	430	430
EMPLOYEE ON-COSTS	0	13	45	57	72	132	785	984	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	1030	897	861
ADMINISTRATION	0	0	0	0	0	0	795	795	795	795	795	795	795	795	795	795	795	795	795	795	795	0
TOTAL OPERATING COST (\$000 NON ESC)	0	123	755	1167	1085	2338	8153	10436	10923	11168	11228	11473	11473	11473	11473	11473	11473	11473	11473	10206	9970	0

OPERATING COST SUMMARY (\$000 ESC)																						
STOPPING - CUT & FILL	0	0	0	0	0	0	413	1313	1546	1638	1737	1841	1952	2069	2193	2325	2464	2612	2768	2935	3111	0
DEVELOPMENT - DRIVE & CROSS CUT	0	0	0	0	0	0	661	701	743	787	835	884	938	994	1054	1117	1184	1255	1330	0	0	0
DEVELOPMENT - RISING	0	0	0	0	0	0	102	108	115	122	129	137	145	154	163	173	183	194	205	0	0	0
MINING SERVICES	0	0	0	0	0	0	32	102	120	127	134	142	151	160	170	180	190	202	214	227	241	0
ENGINEERING - MINE EQUIPMENT	0	0	6	6	6	27	403	636	677	718	761	807	855	907	961	1019	1079	1145	1213	1002	1062	0
ENGINEERING - SERVICES	0	0	266	287	304	416	599	635	768	814	971	1029	1091	1156	1225	1299	1377	1460	1547	1604	1700	0
POWER	0	0	327	752	515	1350	1557	1656	1755	2273	2411	3020	3201	3394	3597	3814	4041	4285	4541	4814	5102	0
ORE TREATMENT PLANT	0	0	0	0	0	0	329	1011	1183	1253	1329	1408	1493	1583	1678	1778	1885	1998	2117	2245	2379	0
DIRECT LABOUR																						
- ADMINISTRATION	0	0	0	0	115	322	419	444	471	499	529	561	595	630	668	708	751	796	843	894	948	0
- MINING	0	58	62	131	183	325	2707	4073	4603	4878	5172	5481	5811	6160	6530	6923	7336	7777	8242	8756	9300	0
- METALLURGICAL	0	0	0	0	0	114	1208	1393	1517	1607	1704	1806	1914	2030	2151	2281	2617	2562	2716	2679	3051	0
- ENGINEERING	0	58	138	146	155	358	854	948	1004	1064	1128	1196	1268	1344	1424	1510	1600	1697	1798	1906	1379	0
EMPLOYEE ON-COSTS	0	13	50	68	91	176	1116	1480	1641	1739	1844	1954	2072	2196	2328	2468	2615	2773	2939	2714	2761	0
ADMINISTRATION	0	0	0	0	0	0	1128	1196	1267	1343	1424	1509	1600	1696	1797	1906	2019	2141	2269	2406	2550	0
TOTAL OPERATING COST (\$000 ESC)	0	130	849	1399	1369	3128	11569	15695	17411	18862	20109	21775	23083	24471	25940	27500	29140	30896	32743	30983	31973	0

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	84/5	85/6	85/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
REVENUE																						
COPPER CONCENTRATE PRODUCTION																						
- COPPER CONCENTRATE (TONNES)	0	0	0	0	0	0	1062	3187	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	3542	0
- COPPER CONTENT (TONNES)	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0
- GOLD CONTENT (000 GM)	0	0	0	0	0	0	67	202	225	225	225	225	225	225	225	225	225	225	225	225	225	0
- GOLD CONTENT (OZ)	0	0	0	0	0	0	2170	6511	7235	7235	7235	7235	7235	7235	7235	7235	7235	7235	7235	7235	7235	0
- SILVER CONTENT (000 GM)	0	0	0	0	0	0	30	90	100	100	100	100	100	100	100	100	100	100	100	100	100	0
- SILVER CONTENT (OZ)	0	0	0	0	0	0	963	2894	3215	3215	3215	3215	3215	3215	3215	3215	3215	3215	3215	3215	3215	0
BULLION PRODUCTION																						
- GOLD BULLION (000 GM)	0	0	0	0	0	0	341	1023	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	1137	0
- GOLD BULLION (OZ)	0	0	0	0	0	0	10968	32904	36559	36559	36559	36559	36559	36559	36559	36559	36559	36559	36559	36559	36559	0
- SILVER BULLION (000 GM)	0	0	0	0	0	0	29	88	98	98	98	98	98	98	98	98	98	98	98	98	98	0
- SILVER BULLION (OZ)	0	0	0	0	0	0	947	2840	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	3155	0
PRICES																						
- COPPER (A\$/TONNE)	2000	2120	2248	2382	2524	2676	2834	2008	3188	3379	3582	3796	4024	4266	4522	4794	5080	5285	5708	6052	6414	0
- GOLD (A\$/OZ)	400	424	450	476	505	525	568	602	638	676	716	759	805	853	904	959	1016	1077	1142	1210	1283	0
- SILVER (A\$/OZ)	10.0	10.5	11.2	11.9	12.6	13.4	14.2	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	0.0
REFINERY LOSSES - COPPER CONCENTRATE																						
- COPPER LOSSES (K UNITS)	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- GOLD (K)	0	0	0	0	0	0	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	0
- SILVER (K)	0	0	0	0	0	0	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	0
TRANSPORT & REFINERY CHARGES - COPPER CONCENTRATE																						
- COPPER (\$/T CONCENTRATE)	0	0	0	0	0	0	213	226	239	253	269	285	302	320	339	350	381	404	428	454	481	0
- GOLD (K)	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
- SILVER (K)	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
REVENUE - COPPER CONCENTRATE (\$000)																						
- COPPER	0	0	0	0	0	0	195	623	734	778	825	876	926	982	1041	1104	1169	1240	1314	1393	1477	0
- GOLD	0	0	0	0	0	0	1170	3721	4382	4643	4924	5218	5531	5864	6216	6590	6983	7404	7846	8319	8817	0
- SILVER	0	0	0	0	0	0	12	39	46	48	51	54	58	61	65	69	73	77	82	87	92	0
TOTAL NET REVENUE - COPPER CONCENTRATE																						
	0	0	0	0	0	0	1379	4383	5162	5469	5800	6146	6515	6907	7322	7762	8225	8721	9242	9799	10385	0
REFINING CHARGES - BULLION (\$000)																						
- GOLD	0	0	0	0	0	0	21	69	85	93	103	114	126	139	153	170	188	208	231	256	284	0
- SILVER	0	0	0	0	0	0	2	5	6	7	7	8	9	10	11	12	13	14	16	18	20	0
NET REVENUE - BULLION (\$000)																						
- GOLD	0	0	0	0	0	0	5204	19725	23225	24606	25088	27642	29297	31054	32911	34883	35956	39174	41505	43995	46514	0
- SILVER	0	0	0	0	0	0	12	38	44	47	49	52	55	58	61	64	67	71	74	78	82	0
TOTAL NET REVENUE - BULLION																						
	0	0	0	0	0	0	6216	19763	23270	24653	26137	27694	29352	31111	32971	34947	37024	39244	41580	44073	46596	0
TOTAL NET REVENUE																						
	0	0	0	0	0	0	7595	24146	28431	30122	31937	33840	35867	38018	40293	42709	45249	47965	50821	53872	57081	0

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BEACONSFIELD PROJECT
WORKING CAPITAL
PROFIT STATEMENT

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	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
WORKING CAPITAL																						
SALES DEBTORS - \$000	0	0	0	0	0	0	292	529	1094	1159	1228	1302	1380	1462	1550	1543	1740	1845	1955	2072	0	0
MINOR COST CREDITORS - \$000	0	0	0	0	0	0	527	736	817	900	964	1060	1123	1191	1263	1338	1418	1504	1594	1684	0	0
OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	118	126	133	197	209	222	235	214	226	240	296	314	0	0
SHARES & STORIES - \$000	0	0	0	0	0	0	1055	1471	1634	1800	1927	2120	2247	2382	2525	2577	2837	3007	3167	2968	0	0
KEY PARAMETERS																						
WASTE REMOVED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	0.0	0.0
TREATED ORE (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	23.0	68.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0	75.0
OLD PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
GOLD PRODUCTION (02)	0	0	0	0	0	0	13138	39415	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0
SILVER PRODUCTION (GZ)	0	0	0	0	0	0	1911	5734	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	159	478	531	531	531	531	531	531	531	531	531	531	531	531	531	0
SOLD PRICE (ESCALATED) - \$/OZ	400.0	424.9	449.5	476.4	504.8	535.2	567.6	601.6	637.6	675.6	716.4	759.2	804.8	853.2	904.4	958.8	1016.0	1077.2	1141.6	1210.4	1282.8	0.0
SILVER PRICE (ESCALATED) - \$/OZ	10.0	10.6	11.2	11.9	12.6	13.4	14.2	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	0.0
COPPER PRICE (ESCALATED) - \$/TONNE	2000	2100	2248	2382	2524	2676	2838	3003	3108	3370	3582	3796	4024	4265	4522	4794	5080	5386	5708	6052	6414	0
INFLATION FORECAST - %																						
	1.000	1.050	1.124	1.191	1.262	1.338	1.419	1.504	1.594	1.589	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	0.000
PROFIT STATEMENT																						
NET REVENUE - \$000	0	0	0	0	0	0	7595	24146	28431	30122	31937	33840	35857	38019	40293	42709	45249	47955	50821	53872	57081	0
LESS																						
OPERATING COSTS - \$000	0	130	840	1390	1369	3128	11516	15640	17352	18890	20943	21705	23009	24392	25956	27411	29047	30795	32637	30771	31855	0
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	711	753	798	1184	1255	1331	1410	1281	1357	1439	1779	1886	1998	0
DEPRECIATION - \$000	0	209	736	2087	2624	3321	7702	5337	9092	9575	10122	7416	6828	5199	4662	3317	2204	1734	1391	975	534	0
PLUS																						
INCREASE IN PRODUCT STOCK VALUATION - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PROFIT BEFORE INTEREST AND TAX	0	-339	-1585	-3477	-3994	-5949	-11624	169	1277	994	974	3535	4776	7096	8365	10700	12641	13946	15015	20239	22644	0
INTEREST - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAX EXPENSE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NET PROFIT - \$000	0	-339	-1585	-3477	-3994	-5949	-11624	169	1277	994	974	3535	4776	7096	8365	10700	12641	13946	15015	20239	22644	0

196187

SEARONSFIELD PROJECT
CASH FLOW STATEMENT

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	94/5	95/5	95/7	97/9	98/9	99/30	90/1	91/2	92/3	93/4	94/5	95/5	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
	-6	-5	-4	-3	-2	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
KEY PARAMETERS																						
WASTE REMOVED (000 TONNES)	0	0	0	0	0	0	25	75	25	25	25	25	25	25	25	25	25	25	25	0	0	0
TREATED ORE (000 TONNES)	0	0	0	0	0	0	23	68	75	75	75	75	75	75	75	75	75	75	75	75	75	0
DCP PLANT FEED (000 TONNES)	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	0.0

GOLD PRODUCTION (OZ)	0	0	0	0	0	0	13153	39415	43734	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	43794	0
SILVER PRODUCTION (OZ)	0	0	0	0	0	0	1511	5734	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	6371	0
COPPER PRODUCTION (TONNES)	0	0	0	0	0	0	139	473	531	531	531	531	531	531	531	531	531	531	531	531	531	0

GOLD PRICE (ESCALATED) - \$/OZ	400.0	424.0	449.5	475.4	504.3	535.2	567.6	601.6	637.5	675.5	715.4	759.2	804.8	853.2	904.4	958.9	1015.0	1077.2	1141.6	1210.4	1282.8	0.0
SILVER PRICE (ESCALATED) - \$/OZ	10.0	10.6	11.2	11.9	12.6	13.4	14.2	15.0	15.9	16.9	17.9	19.0	20.1	21.3	22.6	24.0	25.4	26.9	28.5	30.3	32.1	0.0
COPPER PRICE (ESCALATED) - \$/TONNE	2000	2120	2248	2382	2524	2676	2838	3008	3188	3373	3562	3755	3924	4266	4522	4794	5080	5386	5703	6052	6414	0

INFLATION FORECAST - CPI	1.000	1.030	1.124	1.191	1.252	1.323	1.419	1.504	1.594	1.689	1.791	1.898	2.012	2.133	2.261	2.397	2.540	2.693	2.854	3.026	3.207	0.000

PROJECT CASH FLOW																						
GROSS REVENUE - \$000	0	0	0	0	0	0	7555	24145	28431	30122	31937	33840	35857	38018	40293	42709	45249	47965	50821	53872	57081	0
LESS																						
INCREASE IN SALES DEBTORS - \$000	0	0	0	0	0	0	292	537	165	65	70	73	78	83	67	93	98	104	110	117	-2072	0

CASH RECEIPTS - \$000	0	0	0	0	0	0	7263	23608	28266	29957	31867	33767	35789	37936	40206	42616	45151	47850	50712	53755	59153	0
LESS																						
OPERATING COSTS - \$000	0	130	849	1350	1359	3128	11516	13640	17352	18300	20043	21705	23009	24392	25856	27411	29047	30795	32637	30771	31855	0
OPERATORS FEE - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DECREASE IN OP COST CREDITORS - \$000	0	0	0	0	0	0	-527	-208	-81	-83	-63	-95	-64	-58	-71	-76	-80	-85	-90	100	1494	0
GOVERNMENT ROYALTY - \$000	0	0	0	0	0	0	0	0	711	753	758	1184	1255	1331	1410	1281	1357	1439	1779	1886	1598	0
DECREASE IN OTHER CREDITORS - \$000	0	0	0	0	0	0	0	0	-118	-7	-8	-64	-12	-13	-13	21	-13	-14	-57	-18	314	0

CASH FLOW BEFORE INTEREST AND TAX - \$000	0	-130	-849	-1390	-1359	-3128	-3686	8978	16404	10595	11097	11038	11691	12293	13024	13978	14839	15724	16442	21016	23492	0
INTEREST PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TAX PAID - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

PLUS - LOAN DRAWDOWN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
LESS - LOAN REPAYMENT - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

CAPITAL EXPENDITURE - \$000	935	2856	7236	13743	7764	24512	6170	5305	5923	4435	4397	1516	748	252	409	358	1140	770	427	349	37	0
INCREASE IN SPARES/STOCKS	0	0	0	0	0	0	1055	416	153	156	127	193	127	135	143	152	150	171	150	-200	-2533	0
MINI CLOSURE SALE OF ASSETS & STORES - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	646

PROJECT CASH FLOW - \$000	-935	-3026	-8085	-15133	-9134	-27640	-10911	2356	4318	5593	6584	9330	10725	11936	12472	13468	13540	14763	15655	20858	26443	646

CUMULATIVE CASH FLOW - \$000	-935	-3961	-12046	-27179	-36313	-63952	-74664	-72507	-68189	-62196	-55512	-46192	-35527	-23551	-11179	2169	15829	30611	46447	67315	93758	94403

NPV AT 16% (ACTUAL) - \$000	-22165	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 18% (ACTUAL) - \$000	-23596	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 20% (ACTUAL) - \$000	-24341	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DCF YIELD - ESCALATED %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.3	3.9	5.2	6.5	7.7	7.7

DEFLATED CASH FLOW SUMMARY																						
DEFLATED CASH FLOW - \$000	-935	-2855	-7193	-12706	-7237	-20858	-7639	1237	2709	3549	3676	4915	5321	5582	5516	5619	5321	5435	5543	6835	8447	0

GOLD PRICE - REAL \$#/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	400.0	0.0
SILVER PRICE - REAL \$#/TR OZ (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0
COPPER PRICE - REAL \$#/TONNE (1984/5)	0.0	0.0	0.0	0.0	0.0	0.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	2000.0	0.0

NPV AT 8% (REAL) - \$000	-20435	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 10% (REAL) - \$000	-22679	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NPV AT 12% (REAL) - \$000	-23930	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

DCF YIELD - REAL %	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	1.6

196188

WEPONSFIELD PROJECT
PROFORMA BALANCE SHEET

	84/5	85/6	86/7	87/8	88/9	89/90	90/1	91/2	92/3	93/4	94/5	95/6	96/7	97/8	98/9	99/00	00/1	01/2	02/3	03/4	04/5	
ASSETS																						
ASSETS AT COST - \$000	935	7831	11058	24810	32575	57087	63257	68562	74485	78920	83305	84922	85571	85822	86232	86590	87730	88500	88927	89274	89311	89563
DEPRECIATION - \$000	0	209	945	3032	5656	9477	17179	25518	34608	44183	54205	61721	68549	73748	78409	81726	83930	85714	87104	88091	88665	88665
ASSETS WRITTEN DOWN VALUE - \$000	935	3622	10123	21778	26919	47510	45077	43946	39877	34737	29091	23101	17022	12075	7822	4864	3800	2785	1822	1193	645	0
CAPITALISED INTEREST - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEPRECIATION - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
CAPITALISED INTEREST W/D - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PRODUCT STOCKS - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SALES DEBITORS - \$000	0	0	0	0	0	0	292	929	1094	1159	1228	1302	1380	1462	1550	1643	1740	1845	1955	2072	0	0
SPARES/STOCKS - \$000	0	0	0	0	0	0	1055	1471	1534	1500	1527	2120	2247	2382	2525	2677	2837	3007	3187	2988	0	0
CASH AT BANK - \$000	-935	-3961	-12045	-27773	-36313	-63353	-74864	-72507	-68189	-62196	-55612	-46282	-35557	-23651	-11179	2289	15829	30611	46447	67315	93758	94403
TOTAL ASSETS - \$000	0	-339	-1924	-5401	-9394	-16343	-27439	-27062	-25585	-24500	-23455	-19760	-14908	-7732	718	11472	24205	38250	53411	73568	94403	94403
CURRENT LIABILITIES - \$000																						
CREDITORS - \$000	0	0	0	0	0	0	527	736	935	1026	1097	1257	1333	1413	1498	1552	1645	1744	1890	1808	0	0
CURRENT TAX - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NON CURRENT LIABILITIES - \$000																						
PROJECT LOAN - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DEFERRED TAX - \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SHAREHOLDERS FUNDS - \$000																						
RETAINED PROFITS - \$000	0	-339	-1924	-5401	-9394	-16343	-27439	-27062	-25585	-24500	-23455	-19760	-14908	-7732	718	11472	24205	38250	53411	73568	94403	94403
TOTAL LIABILITIES - \$000	0	-339	-1924	-5401	-9394	-16343	-27439	-27062	-25585	-24500	-23455	-19760	-14908	-7732	718	11472	24205	38250	53411	73568	94403	94403
BALANCE SHEET - FWTB \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
BALANCE SHEET - FWTB CHANGE \$000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0