

KING ISLAND SCHEELITE Pty. Ltd.
UNDERGROUND TECHNICAL SERVICES
ORE RESOURCE AND MINING RESERVE TABLE - BOLD HEAD OREBODY
 31-07-81

16001
93-3470

LENS	SUBDIVISION	PROVEN		PROBABLE		POSSIBLE	TOTAL PROVEN PLUS PROBABLE								
		RESOURCE	RESERVE	RESOURCE	RESERVE	RESOURCE	RESOURCE	RESERVE							
A LENS	A LENS NORTH	75 000	0.92	50 500	0.80	NIL	NIL	NIL	75 000	0.92	50 500	0.80			
	A LENS WEST	MINED OUT		NIL		NIL		NIL		NIL					
	A LENS SOUTH	NIL		NIL		173 900	0.67	76 700	0.48	31 000	173 900	0.67	76 700	0.48	
	SUB-TOTAL:	75 000	0.92	50 500	0.80	173 900	0.67	76 700	0.48	31 000	248 900	0.75	127 200	0.61	
B LENS MAIN	10 725 - 10 800 N	10 800	1.21	7 100	1.10	11 500	1.28	4 500	1.07	NIL	22 300	1.25	11,600	1.09	
	10 625 - 10 725 N	47 500	0.74	31 100	0.67	NIL		NIL		NIL	47 500	0.74	31 100	0.67	
	10 525 - 10 625 N	35 000	0.64	21 900	0.58	NIL		NIL		NIL	35 000	0.64	21 900	0.58	
	10 425 - 10 525 N	55 700	1.07	31 200	0.97	NIL		NIL		NIL	55 700	1.07	31 200	0.97	
	10 325 - 10 425 N	30 700	1.36	20 600	0.97	14 200	1.11	8 500	0.79	7 000	44 900	1.28	29 100	0.92	
	10 200 - 10 325 N	NIL		NIL		NIL		NIL		17 000	NIL		NIL		
	SUB-TOTAL:	179 700	0.96	111,900	0.82	25 700	1.19	13 000	0.89	24 000	205 400	0.98	124 900	0.83	
B LENS WEST		6 200	0.71	NIL		55 500	0.82	26 400	0.68	NIL		61 700	0.81	26 400	0.68
B LENS WEST LOWER		NIL		NIL		8 100	0.78	NIL		NIL		8 100	0.78	NIL	
B LENS EAST		13 100	1.06	NIL		1 900	1.17	NIL		NIL		15 000	1.07	NIL	
BOUNDARY ORE		5 100	0.92	4 000	0.84	10 200	0.83	7 300	0.75	NIL		15 300	0.86	11 300	0.78
FAULT BLOCK	B FAULT I	253 100	0.98	222 700	0.85	52 600	0.92	20 500	0.77	3 000	305 700	0.97	243,200	0.84	
	B FAULT II	168 400	0.82	141 700	0.75	10 600	0.74	3 400	0.62	NIL		179 000	0.81	145 100	0.75
	SUB-TOTAL:	421 500	0.92	364 400	0.81	63 200	0.89	23 900	0.75	3 000	484 700	0.92	388,300	0.81	
C₁ LENS	10 425 - 10 700 N	188 200	0.74	194 400	0.63	NIL		NIL		205 700	188 200	0.74	194 400	0.63	
	10 200 - 10 425 N	47 600	0.78	41 900	0.68	2 600	1.22	2 100	1.06	32 900	50 200	0.80	44 000	0.70	
	SUB-TOTAL:	235 800	0.75	236 300	0.64	2 600	1.22	2 100	1.06	238 600	238 400	0.75	238 400	0.64	
C₂ LENS	10 525 - 10 700 N	106 700	1.08	88 700	0.94	NIL		NIL		NIL		106 700	1.08	88 700	0.94
	10 200 - 10 525 N	20 000	1.00	16 300	0.83	184 200	0.84	125 300	0.70	78 900	204 200	0.86	141 600	0.71	
	SUB-TOTAL:	126 700	1.07	105 000	0.92	184 200	0.84	125 300	0.70	78 900	310 900	0.93	230 300	0.80	
C LENS WEST		102 200	0.66	79 900	0.57	11 500	1.15	8 100	1.00	NIL		113 700	0.71	88 000	0.61
D LENS	D NORTH	36 100	0.93	33 900	0.72	5 200	0.99	3 200	0.76	NIL		41 300	0.94	37 100	0.72
	D SOUTH	NIL		NIL		11 800	1.20	7 200	0.92	8 000	11 800	1.20	7 200	0.92	
	SUB-TOTAL:	36 100	0.93	33 900	0.72	17 000	1.14	10 400	0.87	8 000	53 100	1.00	44 300	0.76	
BOLD HEAD TOTAL		1 201 400	0.89	985 900	0.76	553 800	0.82	293 200	0.67	383 500	1 755 200	0.87	1 279 100	0.74	

METHOD OF GRADE CALCULATION:

Polygonal method of weighted arithmetic means from plans - B Lens Main, B Lens West, C₁ Lens, C₂ Lens and C West.
 Modified polygonal method of weighted arithmetic means from sections for the remainder.

METHOD OF TONNES CALCULATION

Truncated cone formula using 1:250 sections for BF₁, BF₂ and B Lens East.
 Truncated cone formula using 1:500 sections for the remainder.

Bald Head Mining Reserves

1st August, 1981.

NOTES ON C, LENS RESERVE GRADE CALCULATION.
(PROVEN).

Dilution	Resource	Grade	M.T.U.
	188,200	0.74	= 139,268
5%	188,200	0.00	= 0
30%	188,200	0.35	= 19,761
			159,029
+ 188,200			
+ 5% x 188,200			
+ 30% x 188,200			
<u>254,070</u>			

$$\text{Reserve grade} = \frac{159,029}{254,070}$$

$$= 0.63$$

162003

162004

BOLD HEAD MINE PRODUCTION
FROM FEBRUARY TO JULY, 1981.

17-0-01

Orebody	February			March			April			May			June			July			ΣT	Ave %	ΣMTU
	T	%	MTU	T	%	MTU	T	%	MTU	T	%	MTU	T	%	MTU	T	%	MTU			
A-LENS (H 50)	637	0.65	416	1036	0.78	808	881	0.82	717	717	1.21	871				96	0.40	38	3367	0.85	285
B LENS MAIN NORTH										1283	1.17	1502	967	0.92	889	987	0.83	821	3237	0.99	321
B LENS MAIN SOUTH													1899	0.62	1176	173	0.41	71	2072	0.60	124
FAULT BLOCK NORTH	5187	0.75	3822	5525	0.78	4324	762	0.86	652	4	2.00	8	2374	0.84	1983	2839	0.84	2380	16,591	0.79	13166
FAULT BLOCK SOUTH	268	0.31	82	787	0.57	451	2514	0.88	2223	3359	0.84	2838	794	0.71	564	30	0.37	11	7752	0.79	6161
BOUNDARY ORE	711	0.98	699	1370	0.88	1203	1148	0.93	1063	19	0.63	12							3,248	0.92	2971
C ₁ -LENS	1098	0.33	359	3747	0.43	1594	2536	1.99	5039	2807	0.56	1585	3620	0.50	1822	2746	0.52	1421	16,554	0.71	11,820
C ₂ -LENS	2604	0.75	1944	2076	0.70	1460	5264	0.76	4003	4663	0.80	3788	4668	0.79	3694	2388	0.92	2195	21,663	0.79	17,030
C-LENS WEST																					
D LENS NORTH	1739	0.49	849	521	0.48	249	705	1.05	740	7	1.29	9	992	0.75	740	3843	0.61	2358	7807	0.63	4945
	12,144	0.67	8171	15062	0.67	10088	13810	1.05	14439	12859	0.82	10555	15314	0.71	10868	13102	0.71	9295	82,291	0.77	63,410

OREBODY	MINING METHOD	FACTORS				OVERALL RESERVE FACTOR	GEOLOGICAL RESOURCE		RESOURCE IN MAJOR PILLARS		RESOURCE		RESERVE		RESERVE M.T.U.	REMARKS
		PILLAR %	MINEABILITY %	RECOVER %	DILUTION %		TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃		
A-LENS																
NORTH	Carb C/F		65	90	15	0.6728					75,000	0.92	50,500	0.80	40,400	All factors as in Feb. 1981.
WEST	Carb C/F									Mined out						
SOUTH	?									Nil						
SUB-TOTAL											75,000	0.92	50,500	0.80	40,400	
B-LENS MAIN																
10 725 - 10 800N	Carb C/F		70	85	10	0.6545					10,800	1.21	7,100	1.10	7,800	All factors as in Feb. 1981.
10 625 - 10 725N	Pillar Recovery		70	85	10	0.6545					47,500	0.74	31,100	0.67	20,800	
10 525 - 10 625N	- - -		60	95	10	0.6270					35,000	0.64	21,900	0.58	12,700	No change in resource since Feb. 1981
10 425 - 10 525N	- - -		60	85	10	0.5610					55,700	1.07	31,200	0.97	30,300	
10 325 - 10 425N	Pillar Recov. + slot.		60	80	40	0.6720					30,700	1.36	20,600	0.97	20,000	Resource grade down by 0.02
10 200 - 10 325N											Nil	Nil	Nil	Nil	Nil	
SUB-TOTAL											179,700	0.96	111,900	0.82	91,600	
B-LENS WEST																
											6,200	0.71	Nil	Nil		Written off, October, 1978.
B-LENS WEST LOWER																
											Nil	Nil	Nil	Nil		No reserve
B-LENS EAST																
											13,100	1.06	Nil	Nil		Written off, October, 1978.
BOUNDARY ORE																
	Carb C/F		80	90	10	0.7920					5,100	0.92	4,000	0.84	3,400	
FAULT BIRCKE																
FAULT I	Mech C/F	15	85	90	15	0.8798					253,100	0.98	222,700	0.85	189,300	Resource grade down 0.02
FAULT II	- - -	15	85	90	10	0.8415					168,400	0.82	141,700	0.75	106,300	Resource grade up 0.01
SUB-TOTAL											421,500	0.92	364,400	0.81	295,600	
C-LENS																
10 425 - 10 700N	Mech C/F	15	85	90	35	1.0328					188,200	0.74	194,400	0.63	122,500	Dilution of 35% consists of dil. of 5% at zero grade and 30% at 0.35% grade
10 200 - 10 425N	Mech C/F + slot.	15	85	90	15	0.8798					47,600	0.78	41,900	0.68	28,500	
SUB-TOTAL											235,800	0.75	236,300	0.64	151,000	

REF PLAN	GEOLOGY		SCALE 1:	
	SURVEY			
	PLANNING			
	ROCK MEC.			
	GRADE CON.			
DRAFTING		DRAWING NUMBER		
TSS				

187W
6,796
25,547

MINE BOLD HEAD

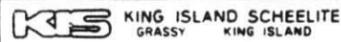
Type of Resource / Reserve PROVEN

162006

Sheet 2 of 4

Date 1-8-81

OREBODY	MINING METHOD	FACTORS				OVERALL RESERVE FACTOR	GEOLOGICAL RESOURCE		RESOURCE IN MAJOR PILLARS		RESOURCE		RESERVE		RESERVE M.T.U.	REMARKS
		PILLAR %	MINEABILITY %	RECOVER %	DILUTION %		TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃		
C-LENS																
10 525 - 10 700N	Mech C/F	15	85	85	15	0.8309					106,700	1.08	88,700	0.94	83,300	Resource grade down 0.04
10 200 - 10 525N	SLOT	15	85	80	20	0.8160					20,000	1.00	16,300	0.83	13,500	
SUB-TOTAL											126,700	1.07	105,000	0.92	96,800	
C-LENS WEST	slot?	20	80	85	15	0.7820					102,200	0.66	79,900	0.57	45,600	no change in resource & factors as in Feb. 1981.
D-LENS																
NORTH	C/F	15	85	85	30	0.9393					36,100	(1,400 0.05) 0.93	33,900	0.72	24,400	dilution is high due to nature of orebody which consists of thin bands.
SOUTH										NIL	NIL	NIL				
SUB-TOTAL											36,100	0.93	33,900	0.72	24,400	
PROVEN TOTAL											1,201,400	0.89	985,900	0.76	748,800	

REF PLAN	GEOLOGY		SCALE 1:	
	SURVEY			
	PLANNING			
	ROCK MEC.			
	GRADE CON			
	DRAFTING			
T.S.S		DRAWING NUMBER		

OREBODY	MINING METHOD	FACTORS				OVERALL RESERVE FACTOR	GEOLOGICAL RESOURCE		RESOURCE IN MAJOR PILLARS		RESOURCE		RESERVE		RESERVE M.T.U.	REMARKS
		PILLAR %	MINEABILITY %	RECOVER %	DILUTION %		TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃		
A - LENS																
NORTH											NIL	NIL	NIL	NIL		
WEST											NIL	NIL	NIL	NIL		
SOUTH	slot + c/f?		50	70	40	0.4410					173,900	0.67	76,700	0.48	36,800	
SUB-TOTAL A											173,900	0.67	76,700	0.48	36,800	No change in both resource & factors from Feb. 1981.
B - LENS - MAIN																
10 25 - 10 800N	CAVO c/f		40	90	20	0.3888					11,500	1.28	4,500	1.07	4,800	Resource up (2,500). Why?
10 025 - 10 725N	Pillar Reinv.										NIL	NIL	NIL	NIL		
10 525 - 10 625N	- -										NIL	NIL	NIL	NIL		
10 425 - 10 525N	- -										NIL	NIL	NIL	NIL		
10 325 - 10 425N	(Pillar Recovery + slot.)		50	95	40	0.5985					14,200	1.11	8,500	0.79	6,700	No change in resource & factors from Feb. 1981.
10 200 - 10 325N											NIL	NIL	NIL	NIL		
SUB-TOTAL B											25,700	1.19	13,000	0.88	11,500	
B - LENS WEST																
	slot		55	80	20	0.4756					55,500	0.82	26,400	0.68	17,900	No change in resource & factors from Feb. 1981.
B - LENS WEST LOWER																
											8,100	0.78	NIL	NIL		No reserve in B-Lens West Lower Ref.
B - LENS EAST																
											12,900	1.17	NIL	NIL		Written off in 1978.
BOUNDARY DREIF																
	CAVO		80	90	10	0.7128					10,200	0.83	7,300	0.75	5,500	Resource grade down 0.04
FAULT BLOCK																
B FAULT I	Much c/f		60	60	20	0.3888					52,600	0.92	20,500	0.77	15,700	Resource up 18,500. Why? REINTERPRET
B FAULT II	Much c/f		60	50	20	0.3240					10,600	0.74	3,400	0.62	2,100	
SUB-TOTAL C											63,200	0.87	23,900	0.74	17,800	
C₁ - LENS																
10 425 - 10 700N	Much c/f										NIL	NIL	NIL	NIL		
10 200 - 10 425N	slot + c/f										2,600	1.22	2,100	1.06	2,200	No change in resource & factors from Feb. 1981.
SUB-TOTAL D											2,600	1.22	2,100	1.06	2,200	

NOTE: PROBABILITY FACTOR OF 90% HAS BEEN APPLIED TO EACH CALCULATION.

REF PLAN

GEOLOGY

SURVEY

PLANNING

ROCK MEC.

GRADE CON

DRAFTING

T.S.S

SCALE 1:

KIS KING ISLAND SCHEELITE
GRASSY KING ISLAND

DRAWING NUMBER

OREBODY	MINING METHOD	FACTORS				OVERALL RESERVE FACTOR	GEOLOGICAL RESOURCE		RESOURCE IN MAJOR PILLARS		RESOURCE		RESERVE		RESERVE M.T.U.	REMARKS
		PILLAR %	MINEABILITY %	RECOVER %	DILUTION %		TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃	TONNES	GRADE % WO ₃		
C-LENS																
10 525 - 10 700N																
10 200 - 10 525N	slot + C/F		70	90	20	0.6804					NIL	NIL	NIL	NIL		
											184,200	0.84	125,300	0.70	87,700	why? 110000
SUB-TOTAL											184,200	0.84	125,300	0.70	87,700	
C-LENS WEST	slot?		80	85	15	0.7038					11,500	1.15	8,100	1.00	8,100	No change in resource and factors from Feb. 1981
D-LENS																
NORTH	C/F		70	75	30	0.6143					5,200	0.99	3,200	0.76	2,400	Resource up 2,700
SOUTH	LF?		70	75	30	0.6143					11,800	1.20	7,200	0.92	6,700	No change in resource & factors from Feb. 1981.
SUB-TOTAL											17,000	1.14	10,400	0.88	9,100	CALC Change in Resource
PROBABLE TOTAL											553,800	0.82	293,200	0.67	196,600	
BOLD HEAD TOTAL											1,755,200	0.87	1,279,100	0.74	945,400	

NOTE: PROBABILITY FACTOR OF 90% HAS BEEN APPLIED ON EACH CALCULATION.

REF PLAN

GEOLOGY

SURVEY

PLANNING

ROCK MEC.

GRADE CON

DRAFTING

TSS

SCALE 1:

KIS KING ISLAND SCHEELITE
GRASSY KING ISLAND

DRAWING NUMBER

Bald Head Mining Reserves

15 March, 1981.

where g' is grade of mining reserve, %.
 g is grade of ore resource, %.
 d is dilution, %.
 x is the grade of the same ore resource at dilution "d".
N.B. x is variable.

King Island Scheelite

Date: 12-3-81.

Ore Resources and Mining Reserves.I. Ore Resource.A. Method of Tonnes Calculation:

The tonnes of ore resources in Bold Head Mine are supplied by the mine geologist. Their method of calculation is based on the truncated cone formula, using geological sections and the specific gravity (S.G.) of the ore.

B. Method of grade calculation:

The grades of ore resources supplied are calculated using the modified polygonal method of weighted arithmetic means.

II. Mining Reserve.A. Method of Tonnes Calculation:

When various factors, such as pillar factor, mineability factor, recovery factor, dilution factor, etc., are known, the tonnes of mining reserves can be calculated by applying these factors on their corresponding ore resources. However, for probable mining reserves, a probability factor is also taken into consideration.

B. Method of Grade Calculation:

The grade of each mining reserve is calculated using the following formula:

$$g' = \frac{g + dx}{1 + d}$$

KING ISLAND SCHEELITE Pty. Ltd.
 UNDERGROUND TECHNICAL SERVICES
ORE RESOURCE AND MINING RESERVE TABLE - BOLD HEAD OREBODY
AS AT 1-2-81

162012

LENS	SUBDIVISION	PROVEN		PROBABLE		POSSIBLE	TOTAL PROVEN PLUS PROBABLE			
		RESOURCE	RESERVE	RESOURCE	RESERVE	RESOURCE	RESOURCE	RESERVE		
A LENS	A LENS NORTH	78,300 0.92	52,600 0.80	NIL	NIL	NIL	78,300 0.92	52,600 0.80		
	A LENS WEST	MINED OUT	NIL	NIL	NIL	NIL	NIL	NIL		
	A LENS SOUTH	NIL	NIL	173,900 0.67	76,600 0.48	31,000	173,900 0.67	76,600 0.48	31,000	
	SUB-TOTAL:	78,300 0.92	52,600 0.80	173,900 0.67	76,600 0.48	31,000	252,200 0.75	129,200 0.61		
B LENS MAIN	10 750 - 10 800 N	NIL	NIL	9,000 1.74	3,500 1.45	NIL	9,000 1.74	3,500 1.45		
	10 625 - 10 750 N	43,300 0.81	27,300 0.74	NIL	NIL	NIL	43,300 0.81	27,300 0.74		
	10 525 - 10 625 N	35,000 0.64	21,900 0.58	NIL	NIL	NIL	35,000 0.64	21,900 0.58		
	10 425 - 10 525 N	55,700 1.07	31,200 0.97	NIL	NIL	NIL	55,700 1.07	31,200 0.97		
	10 325 - 10 425 N	32,600 1.37	21,900 0.89	14,200 1.11	8,500 0.79	7,000	46,800 1.29	30,400 0.86		
	10 200 - 10 325 N	NIL	NIL	NIL	NIL	17,000	NIL	NIL		
	SUB-TOTAL:	166,600 0.97	102,300 0.81	23,200 1.36	12,000 0.98	24,000	189,800 1.02	114,300 0.85		
B LENS WEST		6,200 0.71	NIL	53,500 0.82	26,300 0.68	NIL	61,700 0.81	26,300 0.68		
B LENS WEST LOWER		NIL	NIL	8,100 0.78	NIL	NIL	8,100 0.78	NIL		
B LENS EAST		13,100 1.06	NIL	1,900 1.17	NIL	NIL	15,000 1.07	NIL		
BOUNDARY ORE		7,500 0.83	5,900 0.75	15,800 0.87	11,200 0.79	NIL	23,300 0.86	17,100 0.78		
FAULT BLOCK	B FAULT I	294,300 1.00	258,900 0.87	33,800 1.03	13,100 0.86	3,000	328,100 1.00	272,000 0.87		
	B FAULT II	182,800 0.81	153,800 0.74	12,400 0.74	4,000 0.62	NIL	195,200 0.81	157,800 0.74		
	SUB-TOTAL:	477,100 0.93	412,700 0.82	46,200 0.95	17,100 0.80	3,000	523,300 0.93	429,800 0.82		
C ₁ LENS	10 425 - 10 700 N	204,500 0.74	227,600 0.60	NIL	NIL	105,100	204,500 0.74	227,600 0.60		
	10 200 - 10 425 N	47,700 0.78	41,900 0.68	2,600 1.22	2,000 1.06	136,800	50,300 0.80	43,900 0.70		
	SUB-TOTAL:	252,200 0.75	269,500 0.61	2,600 1.22	2,000 1.06	241,900	254,800 0.75	271,500 0.61		
C ₂ LENS	10 525 - 10 700 N	122,900 1.12	102,100 0.97	192,400 0.84	111,400 0.65	NIL	315,300 0.95	213,500 0.80		
	10 200 - 10 525 N	21,700 1.00	17,700 0.83	NIL	NIL	67,600	21,700 1.00	17,700 0.83		
	SUB-TOTAL:	144,600 1.10	119,800 0.95	192,400 0.84	111,400 0.65	67,600	337,000 0.95	231,200 0.81		
C LENS WEST		102,200 0.66	79,900 0.57	11,500 1.15	8,000 1.00	NIL	113,700 0.71	87,900 0.61		
D LENS	D NORTH	43,200 0.88	35,900 0.77	2,500 0.83	1,500 0.64	NIL	45,700 0.88	37,400 0.76		
	D SOUTH	NIL	NIL	11,800 1.20	7,200 0.92	8,000	11,800 1.20	7,200 0.92		
	SUB-TOTAL:	43,200 0.88	35,900 0.77	14,300 1.14	8,700 0.87	8,000	57,500 0.94	44,600 0.79		
BOLD HEAD TOTAL		1,291,000 0.90	1,078,600 0.76	545,400 0.83	273,300 0.65	375,500	1,836,400 0.88	1,351,900 0.74		

METHOD OF GRADE CALCULATION:
 Polygonal method of weighted arithmetic means from plans - B Lens Main
 B Lens West, C₁ Lens, C₂ LENS AND C WEST.
 Modified polygonal method of weighted arithmetic means from sections for
 the remainder.

METHOD OF TONNES CALCULATION
 Truncated cone formula using 1:250 sections for BF₁, BF₂ and
 B Lens East.
 Truncated cone formula using 1:500 sections for the remainder.

PROVEN

AREA	MINING METHOD	RESOURCE AT 1-2-81	% WO ₃	RESERVE AT 1-2-81	% WO ₃	RESERVE M.T.U.	CALCULATION REMARKS	FACTORS				Overall Ore Reserve Factor	VARIATION IN RESERVES (From last year)
								Pillar factor %	Mineable %	Recovery %	Dilution %		
A-LENS													
NORTH		78,300	0.92	52,600	0.80	42,000	A in August, 1980.		65	90	15	0.6728	-800
WEST		Mined out		NIL									
SOUTH		NIL		NIL									
SUB TOTAL		78,300	0.92	52,600	0.80	42,000							-800
B-LENS MAIN													
10 750 - 10 800 N		NIL		NIL									
10 625 - 10 750 N		43,300	0.81	27,300	0.74	20,200	Factors as in August, 1980.		67.5	85	10	0.6311	
10 525 - 10 625 N		35,000	0.64	21,900	0.58	12,700			60	95	10	0.5270	0
10 425 - 10 525 N		55,700	1.07	31,200	0.97	30,200			60	85	10	0.5610	0
10 325 - 10 425 N		32,600	1.37	21,900	0.98	21,400			60	80	40	0.6720	0
10 200 - 10 325 N		NIL		NIL									
SUB TOTAL		166,600	0.97	102,300	0.83	84,500							-2,200
B-LENS WEST													
B-LENS WEST		8,200	0.71	NIL			written off in October, 1978.						
B-LENS WEST LOWER		NIL		NIL			No reserve.						
B-LENS EAST		13,100	1.06	NIL			written off in October, 1978.						
BOUNDARY ORE													
BOUNDARY ORE		7,500	0.83	5,900	0.75	4,400			80	90	10	0.7920	-800
FAULT BLOCK													
B FAULT I		294,300	1.00	225,900	0.87	225,100		15	85	90	15	0.8778	+12,900
B FAULT II		182,800	0.81	153,800	0.74	127,400		15	85	90	10	0.8425	-16,400
SUB TOTAL		477,100	0.93	379,700	0.82	352,500							+17,500
C₁ LENS													
10 550 - 10 700 N	Meck C/F	55,500	0.69	45,000	0.52	45,000	5% D 0% W ₂ 30% D 5% W ₃ C/F 11 only	15	85	90	15	0.8778	+12,900
10 425 - 10 550 N		42,133,800	0.78	33,700	0.65	33,700	5% pp (10) D 3% scale 30% of limit D 35% W ₂	15	85	90	15	0.8528	+17,700
10 200 - 10 425 N		47,700	0.78	41,900	0.68	28,500		15	85	90	15	0.8778	-9,500
SUB TOTAL		352,200	0.75	253,100	0.64	169,600							+14,500
C₂ LENS													
10 525 - 10 700 N	Meck C/F	122,900	1.12	102,100	0.97	99,000		15	85	95	15	0.8399	+8,700
10 200 - 10 525 N		21,700	1.07	17,700	0.83	14,700		15	85	80	20	0.8160	+1,200
SUB TOTAL		144,600	1.10	125,800	0.95	119,500							-1,500

N.B. 1). Increase in reserves in B Fault I and B Fault II are due mainly to pillar factors which have been re-calculated and found to be lower than in August, 1980. (e.g. 15% in August). Also, dilution of B Fault I is up by 5.

2). Increase in reserve in C₁ Lens (10 550-10 700N) is a result of increase in return change in mining method of L60 slope → Refactor = 10% using C/F. In August, P.F = 15%.

REF PLAN

GEOLOGY
SURVEY
PLANNING
ROCK MEC.
DRAFTING
T.S.S.

SCALE 1:



min. 0.85 × 0.90 × 1.35 = 1.0328.

DRAWING NUMBER

BOLD HEAD

MINE

162014 18-3-81

PROVEN

AREA	MINING METHOD	RESOURCE AT 1-2-81	% WO ₃	RESERVE AT 1-2-81	% WO ₃	RESERVE M.T.U.	CALCULATION REMARKS	FACTORS				Overall Ore Reserve Factor	VARIATION IN RESERVE
								Pillar factor %	Mineable %	Recovery %	Dilution %		
C LENS WEST	✓	102,200	0.66	79,900	0.57	45,500	dilution down 5. due to internal dilution being put into resource get.		80	85	15	0.7820	+29,000
D LENS	47 37,800			37,400	0.73								
NORTH		43,200	0.88	35,900	0.77	27,400	Dil. down 5		85	85	15	0.8309	-3,100
SOUTH	✓	NIL		NIL								0.8670	
SUB TOTAL		43,200	0.88	35,900	0.77	27,400							-3,100
				1,063,700	0.77								
BOLD HEAD TOTAL		1,291,000	0.90	1,063,700	0.77	856,800							+90,500

N.B. Reserve of C Lens West increases as a result of increase of resource.

REF PLAN

1,063,700 0.77

GEOLOGY

SURVEY

PLANNING

ROCK MEC.

GRADE CON.

DRAFTING

T.S.S.

SCALE 1:

KIS KING ISLAND SCHEELITE
GRASSY KING ISLAND

DRAWING NUMBER

BOLD HEAD MINE

PROBABLE

AREA	MINING METHOD	RESOURCE AT 1-2-81	% WO ₃	RESERVE AT 1-2-81	% WO ₃	RESERVE M.T.U.	CALCULATION REMARKS	FACTORS				Overall Ore Reserve Factor	VARIATION IN RESERVES
								Pillar factor %	Mineable %	Recovery %	Dilution %		
A-LENS													
NORTH		NIL		NIL									
WEST		NIL		NIL									
SOUTH	slot/cut & FM	173,900	0.67	76,600	0.48	36,600	No change from August, 1980.	50	70	40	0.4410	0	(from Aug 80)
SUB TOTAL		173,900	0.67	76,600	0.48	36,600							
B-LENS MAIN													
10 750 - 10 800N	CAVD	9,000	1.74	3,500	1.45	5,000	As in August, 1980.	40	90	20	0.3888	0	
10 825 - 10 750N		—		—									
10 25 - 10 625N		—		—									
10 425 - 10 525N		—		—									
10 325 - 10 425N	slot	14,200	1.11	8,500	0.79	6,700	No change from August, 1980.	50	95	40	0.5985	0	
10 200 - 10 325N		—		—									
SUB TOTAL		23,200	1.36	12,000	0.98	11,700						0	
B-LENS WEST	slot	55,500	0.82	26,300	0.68	17,900	- As in August, 1980						0
B-LENS WEST LOWER		8,100	0.78	—	—	—	- No reserve in B-Lens west lower Pod.						
B-LENS EAST		1,900	1.17	—	—	—	- written off.						
BOUNDARY ORE	CAVD	15,800	0.87	11,200	0.79	8,800	Dilution is 10% as compared to 15% in August, 1980.	80	90	10	0.7128	-1,400	
FAULT BLOCK													
B FAULT I	mech. C/F	33,800	1.03	13,100	0.86	11,200	- As in August, 1980	60	60	20	0.5888	0	
B FAULT II	" - "	12,400	0.74	4,000	0.62	2,400	No change from August, 1980.	60	50	20	0.3240	0	
SUB TOTAL		46,200	0.95	17,100	0.80	13,600						0	
C₁-LENS													
10 525 - 10 700N		NIL		NIL									
10 200 - 10 525N	down 15,300	2,600	1.22	2,000	1.06	2,100	Factors as in "Proven" reserve	85	90	15	0.7918	-12,200	
SUB TOTAL		2,600	1.22	2,000	1.06	2,100							
C₂-LENS													
10 525 - 10 700N		192,400	0.84	(111,400)	(0.65)	104,900	- same factors as for August, 1980, calc. Factors as for "Proven" reserve.	85	85	15	0.5792	+15,700	
10 200 - 10 525N	down 177,000	NIL		NIL									-12,400
SUB TOTAL		192,400	0.84	143,800	0.73	104,900							+5,700
		net increase of 11,600t		(111,400)	(0.65)								result of pillar factor and increase in resource.

N.B. TO EACH RESERVE CALCULATION, A PROBABILITY FACTOR OF 90% IS APPLIED.

REF. PLAN	GEOLOGY	SCALE 1:	KIS KING ISLAND SCHEELITE GRASSY KING ISLAND
	SURVEY		
	PLANNING		
	ROCK MEC.		
	GRADE CON.		
	DRAFTING		
	T.S.S.		DRAWING NUMBER

162017

Bald Head Mining Reserves.

31 August, 1980.

King Island Scheelite

Date: 25-9-80.

Ore Resources and Mining Reserves.I. Ore Resources.A. Method of Tonnes Calculation:

The tonnes of ore resources in both Bold Head and Dolphin Mines are supplied by the mine geologists. Their method of calculation is based on the truncated cone formula, using geological floor plans and the specific gravity (S.G.) of the ore.

B. Method of Grade Calculation:

The grades of ore resources supplied by the geologists are calculated using the modified polygonal method of weighted arithmetic means.

II. Mining Reserves.A. Method of Tonnes Calculation:

When various factors, such as pillar factor, mineable factor, recovery factor and dilution factor, etc., are known the tonnes of mining reserves can be calculated by applying these factors on their corresponding ore resources. However, for probable mining reserves, a probability factor is also taken into consideration.

B. Method of Grade Calculation:

The grade of each mining reserve is calculated using the following formula:

$$g' = \frac{g + dx}{1 + d}$$

where: g' is grade of mining reserve, in %.
 g is grade of ore resource, in %.
 d is dilution, in %.
 x is the grade of the same ore resource at dilution "d".

N.B. x is variable.

The approximation method of mining reserve grade calculation:

$$g' = (1 - d)g$$

where g' = mining reserve grade, %.
 g = ore resource grade, %.
 d = dilution, %.

In the past, this method of mining reserve grade calculation was used. However, it is suggested that from the "31-8-80" reserves calculation, such a formula should be abandoned because it gives a high inaccuracy in reserve grade, especially in the areas where dilution of ore is high. It is also misleading in mining decision making.

Bald Head Mine.

Explanations of and comments on mining reserves.

I. PROVEN RESERVES.

①. A-Lens:

- a)- A-Lens North: All the Factors are as for February reserves calculation.
 - b)- A-Lens West: All ore resource has been mined out.
 - c)- A-Lens South: More diamond drilling is required to confirm the size of the orebody.
- The drop in ^{reserve for} the overall area of A-Lens ~~reserve~~ is due ^{to} mining.

②. B-Lens:

- 10 750 - 10 800N : More drilling is required to determine the size and grade of the orebody.
- 10 675 - 10 750N : Factors as for Feb. 1980 reserves calculation.
- 10 625 - 10 675N : The mining activity in this area is pillar recovery. Because of the irregularity of pillar sizes, and their locations, and the access to them, 65% of mineable factor is reasonable. From mining performance, a recovery of 80% is likely. Dilution is quite low because the ground condition is reasonably good. Some dilution is from fill, therefore 10% dilution is realistic.
- 10 325 - 10 625N : All the factors are as in Feb. 1980 calculation. However, the reserve grade in the areas between 10 325 and 10 425N increases significantly due to the method of reserve grade calculation.
- 10 200 - 10 325N : The area is under study. Diamond drilling is required.

The drop in reserve for the overall B-Lens area is due mainly to mining in (10 325 - 10 425N) and (10 625 - 10 750N) areas.

162021

- ③. B-Lens West: Written off, October, 1978.
- ④. B-Lens West Lower: No reserve.
- ⑤. B-Lens East: Written off, October, 1978.
- ⑥. Boundary Orebody: Factors are as for Feb., 1980 calculation. But the reserve drops due to mining in P 57 stope.
- ⑦. Fault Block:
- a). B Fault I: Taking into consideration the rib pillar below Q 42 Drive and anticipating leaving, possibly, two more pillars of 8m x 8m size in the area between 955 R.L. and 975 R.L. where the orebody widens up to, approximately, 30 m, the pillar factor is estimated to be about 15%. Hence, mineability is only 85%. From daily mining performance, a recovery of 85% is practicable. Also, from daily mining performance, the dilution is approximately 10% since the ground conditions are reasonably good.
- b). B Fault I: Considering that a couple of pillars of 6m x 6m size will have to be left between 960 R.L. and 975 R.L., pillar factor estimate is 13%, hence 87% of mineable factor. From daily mining performance and ground conditions, a recovery factor of 90% is realistic. Dilution is estimated at 10%.

Mining between 10 390N and 10 490N has resulted in a drop of the reserve.

9. C₁ Lens:

- 10 550 - 10 700N : Taking into consideration the slot and cut/fill mining methods used in the area, the pillar factor is found to be 15% as a result of calculation. Hence, mineability is 85%. From daily mining performance, 90% of recovery is achievable and more realistic than 85% estimated in the last Feb, 1980 calculations. Dilution is 5% for pgh (o) at 0% grade.
- 10 425 - 10 550N : As a result of stope layout and cut/fill mining method for the area, the pillar factor works out to be approximately 13%. Hence, mineability is 87%. From daily performance, 90% recovery is achievable, and dilution works out to be 5% for pgh (o) at 0% grade and another 40% for pgh (m) at 0.35% WO₃.
- 10 200 - 10 425N : In this area, mining method anticipated is very much the same as that used in 10 550 - 10 700N area. It has the same sort of ground conditions. Therefore, as a result of the factors mentioned above, pillar factor = 15%, mineability = 85%, recovery = 90% and dilution = 5% (pgh (o)).

The increase in reserve is a direct result of the new mining methods used in the area and the layout of the stope which enable higher mineability and recovery.

⑨. C₂ Lens:

10 515 - 10 700 N : Mining methods used in this area are cut/fill and slot stoping. From the stope layout and pillar sizes, pillar factor is approximately 15%; hence, mineability is 85%. From daily mining performance and from the consideration of ground conditions, about 85% of mineable ore can be recovered, and dilution is 15%.

10 200 - 10 525 N : As a result of stope layout (slot stope) and the size of pillars which will be finally left in the area, pillar factor is 17%, \rightarrow mineability is 83%. Due to this different mining method and ground condition, recovery of 90% is achievable. But since the orebody is quite flat (20° to 27° in dip) and thin, dilution is estimated at 20%.

The increase of reserve is a result of different mining method.

⑩. C-Lens West: The mining method which is likely to be used for C-Lens West is a combination of slot and cut/fill stopings. Also a skin of ore in the form of a rib pillar, 5m wide, would have to be left along Western Fault, hence, pillar factor is about 20%. \rightarrow mineability is 80%. In practice only 85% recovery could be achieved since the ground condition is fair. Dilution could be as high as 20% because the orebody is thin and flat in most parts.

As a result of the mining method considered for the orebody, and the stope arrangement, the reserve increases substantially.

①. D-Lens:

North: The mining method for this orebody will be mechanized cut/fill. However, a rib pillar will have to be left along western Fault and will be 5m wide. Also a small part of orebody directly below the main decline will be untouched. Therefore, pillar factor works out to 15% \rightarrow mineability 85%. Recovery is estimated at 85% due to the location of the orebody. Dilution of 20% is more realistic when taking the ground conditions into consideration.

South: More drilling is required to determine the size, shape and grade of the orebody.

The overall increase in mining reserve is a direct result of new mining methods being used for C₁ and C₂ Lenses.

II. PROBABLE RESERVES. (Probability factor is 90%)

①. A-Lens:

- a) - North : No reserve?
 b) - West : No reserve?
 c) - South : Mining method used is a combination of slot and Cut/fill. Due to stope arrangement, mineability is estimated at 50%. From mining performance, recovery of 70% is possible. Taking into consideration the nature of the orebody and ground conditions, dilution can be as high as 40%.

②. B-Lens:

10 750 - 10 800 N : Mining method for this area is still under consideration. However, due to the nature and type of the orebody and its location, mineability is expected to be only 40%. In practice, recovery of 90% is realistic. Due to fair ground conditions, dilution is 20%.

10 425 - 10 750 N : No resource is provided by geologists.

10 325 - 10 425 N : Mining method to be used here is slot stoping. From stope layout, mineability is only 50% and of this a recovery of 95% is possible, as from mining performance. Due to bad ground conditions, dilution is estimated at 40%.

③. B-Lens West:

Mineability and dilution are as for Feb. 1980 calculations. However, recovery of 80% is more realistic than 75% estimated in Feb. since from daily mining performance, a recovery of slightly more than 80% is achievable and it does not go down to 75% very often.

- (4) B-Lens West Lower: No reserve in B-Lens west Lower Pod.
- (5) B-Lens East: Written off.
- (6) Boundary Ore: Mining method used here is caving + cut/fill. From daily mining performance, mineability, recovery and dilution are 80%, 90% and 15% respectively due to mining method for the area, nature and type of ore body and ground conditions.
- (7) Fault Block:
- a) B-fault I: Mechanize cut/fill and/or caving stoping is being used here. From daily mining performance, mineability of 60%, recovery of 60% and dilution of 20% are realistic.
- b) B-fault II: Mining method used is cut/fill. From daily mining of the area, 60% mineability is achievable. Recovery is as high as 60%. Since above 950 m R.L., the orebody narrows down some waste would have to be mined with ore, therefore dilution is estimated at 20%.
- (8) C₁ Lens: For both areas (10 200-10 525 N) and (10 525-10 700 N), stop + cut/fill method of mining is used, resulting in 75% mineability, 70% recovery and 20% dilution. These factors are also the result of the type of ore body, its nature, its location and its ground conditions.

162027

(9) C-Lens:

10 525 - 10 700N :

Mechanized cut/fill method is used here. As a result of this method and the stope layout, mineability and recovery increase significantly. However, because of the shallow dip of the orebody and its small thickness, dilution is estimated at 30%. (mineability = 55%, recovery = 90%).

10 200 - 10 525N :

The same method of mining, and stope layout and ground conditions applied in this area as in (10 525 - 10 700N) area.

- ∴ mineability = 70%,
- recovery = 90%
- Dilution = 20%

(10) C-Lens West:

A combination of slot and mechanized cut/fill will be used to mine the area. Reasons and comments on stope and ground conditions are as for the proven reserve.

(11) D-Lens:

a). North:

Mechanized cut/fill will be used.

b). South:

Mechanized cut/fill will be used.

Reasons^{for} and comments on factors are as for proven reserve calculation.

PROVEN.

162028

BOLD HEAD

MINE

g
↓ 9'

AREA	MINING METHOD	RESOURCE AT 31-8-80	% WO ₃	RESERVE AT 31-8-80	% WO ₃	RESERVE M.T.U. 31-8-80	CALCULATION REMARKS	FACTORS				Overall Ore Reserve Factor
								Pillar factor %	Mineable %	Recovery %	Dilution %	
A-LENS:												
North	Caro + C/F	79,400	0.92	53,400	0.80	42,700	Factors as for Feb. calculations (1980)	35	65	90	15	0.6728
West	-	Mixed Out	-	-	-	-						
South	?	-	-	-	-	-						
Sub-Total		79,400	0.92	53,400	0.80	42,700						
B-LENS:												
10 750 - 10 800 N	?	-	-	-	-	-	Factors as for Feb. 1980 Calc ⁿ	70	90	10		0.6930
10 675 - 10 750 N	Caro + C/F	29,000	0.80	20,000	0.73	14,500						
10 625 - 10 675 N	B.P. Rec.	16,700	0.84	9,500	0.76	7,200	Factors as for Feb. 1980 Calc ⁿ	65	80	10		0.5720
10 525 - 10 625 N	-/-	35,000	0.64	21,900	0.58	12,700						
10 425 - 10 525 N	slot, Pill	55,700	1.07	31,200	0.97	30,300						
10 325 - 10 425 N	-/-	32,600	1.37	21,900	0.98	21,400	Reserve grade increases due to different method of calculation, but factors as in Feb.	60	85	10		0.5610
10 200 - 10 325 N	?	-	-	-	-	-						
Sub-Total		169,000	0.97	104,500	0.88	86,100						
3- LENS WEST												
		6,200	0.71	-	-	-	Written off, October, 1978					
4- LENS WEST LOWER												
		-	-	-	-	-						
5- LENS EAST												
		13,100	1.06	-	-	-	Written off, October, 1978					
6- BOUNDARY DREDD												
	Caro + C/F	8,100	0.83	6,700	0.72	4,800	Factors as for Feb. 1980	20	80	90	15	0.8280
7- FAULT BLOCK:												
a)- B FAULT I	Mech. C/F	295,800	1.00	235,000	0.91	213,600	(Reserve grades are high because of low dil. now i.e. 10% vs 15% in Feb.)	15	85	85	10	0.7948
b)- B FAULT II	-	197,600	0.81	170,200	0.74	125,300						
Sub-Total		493,400	0.92	405,200	0.84	338,900						

REF PLAN

GEOLOGY

SURVEY

PLANNING

ROCK MEC.

GRADE CON

DRAFTING

SCALE 1:



DRAWING NUMBER

PROVEN

BOLD HEAD

MINE

162029

AREA	MINING METHOD	RESOURCE AT 31-8-80	% WO ₃	RESERVE AT 31-8-80	% WO ₃	RESERVE M.T.U. 31-8-80	CALCULATION REMARKS	FACTORS				Overall Ore Reserve Factor	
								Pillar factor %	Mineable %	Recovery %	Dilution %		
8- <u>C₁-LENS:</u>													
10 550 - 10 700N	slot + C/F	55,000	0.7	44,100	0.67	29,400	0 grade	15	85	90	5 pph (10)	0.8033	
10 425 - 10 550N	C/F	124,700	0.99	143,500	0.78	111,000	(dil. 5% for pph (10) at 0 grade 40% for pph (10) at 0.35% grade)	13	87	90	5 pph (10) 40 pph (10)	1.1510	
10 200 - 10 425N	slot + C/F	64,000	0.99	51,400	0.94	48,400		15	85	90	5 pph (10)	0.8033	
<u>Sub-total</u>		243,700	0.92	239,000	0.79	188,800							
9- <u>C₂-LENS:</u>													
10 525 - 10 700N	C/F + slot	127,400	1.06	105,800	0.92	97,500	(Now, high min. % recovery because of diff. mining method.)	15	85	85	15	0.8309	
10 200 - 10 525N	slot	18,500	1.04	16,500	0.87	14,300		17	83	90	20	0.8964	
<u>Sub-total</u>		145,900	1.06	122,300	0.90	111,800							
10- <u>C-LENS WEST</u>	slot + C/F	62,400	0.85	50,900	0.71	36,000		20	80	85	20	0.8160	
11- <u>D-LENS:</u>													
North	mech. C/F	45,000	0.88	39,000	0.73	28,600	Now, low dil. as comp. to Feb. Fig.	15	85	85	20	0.8670	
South													
<u>Sub-total</u>		45,000	0.88	39,000	0.73	28,600							
BOLD HEAD TOTAL		1,266,400	0.94	1,021,000	0.82	837,700	WEIGHTED AVERAGE		82	88	13		

REF PLAN

GEOLOGY

SURVEY

PLANNING

ROCK MEC.

GRADE CON

DRAFTING

TCC

SCALE 1:

KIS KING ISLAND SC GRASSY KING

DRAWING NUMBER

PROBABLE

N.B. PROB. FACTOR OF 90% IS APPLIED TO EACH MINING RESERVE CALCULATION.

BOLD HEAD

MINE

162030

AREA	MINING METHOD	RESOURCE AT 31-8-80	% WO ₃	RESERVE AT 31-8-80	% WO ₃	RESERVE M.T.U. 31-8-80	CALCULATION REMARKS	FACTORS				Overall Ore Reserve Factor
								Pillar factor %	Mineable %	Recovery %	Dilution %	
1. A-LENS:												
North	—	—	—	—	—	—						
West	—	—	—	—	—	—						
South	slot + C/F	173,900	0.67	76,600	0.48	36,600			50	70	40	0.4410
Sub-Total		173,900	0.67	76,600	0.48	36,600						
2. B-LENS:												
10 750 - 10 800 N		9,000	1.74	3,500	1.45	5,000	Low reserve because only 40% mineable as 'wms' to 50% in Feb.		40	90	20	0.3888
10 625 - 10 750 N		—	—	—	—	—						
10 525 - 10 625 N		—	—	—	—	—						
10 425 - 10 525 N		—	—	—	—	—						
10 325 - 10 425 N	slot	14,200	1.11	8,500	0.79	6,700			50	95	40	0.5985
Sub-Total		23,200	1.35	12,000	0.98	11,700						
3. B-LENS WEST												
	slot	55,500	0.82	26,300	0.68	17,900			55	80	20	0.4752
4. B-LENS WEST LOWER												
		8,100	0.78	—	—	—	No reserve in B-Lens West Lower Ptd.					
5. B-LENS EAST												
		1,900	1.17	—	—	—	Written off.					
6. BOUNDARY ORE												
	cap + C/F	17,000	0.87	26,600	0.76	9,500			80	90	15	0.7452
7. FAULT BLOCK:												
B FAULT I	Mech. or Cap + C/F	33,800	1.03	13,100	0.86	11,200			60	60	20	0.3888
B FAULT II	-H -H	12,400	0.74	4,000	0.62	2,400			60	50	20	0.3240
Sub-Total		46,200	0.95	17,100	0.80	13,600						

REF PLAN

GEOLOGY

SURVEY

PLANNING

ROCK MEC.

GRADE CON

DRAFTING

TSS

SCALE 1:

KIS KING ISLAND GRASSY KING

DRAWING NUMBER

PROBABLE

N.B. PROB. FACTOR OF 90% IS APPLIED TO EACH CALCULATION

BOLD HEAD.

MINE

162031

AREA	MINING METHOD	RESOURCE AT 3/1-8-80	% WO ₃	RESERVE AT 3/1-8-80	% WO ₃	RESERVE M.T.U. 3/1-8-80	CALCULATION REMARKS	FACTORS				Overall Ore Reserve Factor
								Pillar factor %	Mineable %	Recovery %	Dilution %	
8- G₁ LENS:												
10 525 - 10 700 N	slot + c/f	7,300	0.73	4,100	0.61	2,500			75	70	20	0.567
10 200 - 10 525 N	-/-	17,900	0.98	10,100	0.82	8,200			75	70	20	0.567
Sub-Total		25,200	0.91	14,200	0.75	10,700						
9- G₂ LENS:												
10 525 - 10 700 N	Mech. c/f + slot	3,800	0.83	2,200	0.64	1,400	High reserve due to diff. mining method. 80% rec. vs Comp. with 55% for Feb.		55	90	30	0.5792
10 200 - 10 525 N	-/-	177,000	1.01	120,400	0.84	101,300			70	90	20	0.6804
Sub-Total		180,800	1.01	122,600	0.84	102,700						
10- G₃ LENS WEST:												
	slot & Mech. c/f	40,000	0.83	29,300	0.69	20,200		20	80	85	20	0.7344
11- D₁ LENS:												
North	Mech. c/f	2,500	0.83	1,500	0.64	900			70	75	30	0.6143
South	-/-	11,800	1.20	7,200	0.92	6,600			70	75	30	0.6143
Sub-Total		14,300	1.14	8,700	0.86	7,500						
BOLD HEAD TOTAL:		586,100	0.88	319,400	0.72	230,400						

REF PLAN

GEOLOGY

SURVEY

PLANNING

ROCK MEC.

GRADE CON

DRAFTING

SCALE 1:

KIS KING ISLAND GRASSY K

DRAWING NUMBER

162032

see geologist for
this.

29-9-80.

C₁ - Lens Reserve Calculation

$$1). (10.425N - 10.525N) \rightarrow 109,900 \times 1.151 = 126,500 \text{ at } 0.78\% \text{ W/O}_3$$

$$\therefore 10.200 - 10.525N \rightarrow [(10.200 - 10.425N) + (10.425 - 10.525N)]$$

$$\rightarrow 51,400 \text{ at } 0.94\% \text{ W/O}_2 + 126,500 \text{ at } 0.78\% \text{ W/O}_3$$

$$= 177,900 \text{ at } 0.83\% \text{ W/O}_3$$

$$2). (10.525 - 10.550N) \rightarrow 14,800 \times 1.151 = 17,100 \text{ at } 0.67\% \text{ W/O}_3$$

$$\therefore 10.525 - 10.700N \rightarrow [(10.525 - 10.550N) + (10.550 - 10.700N)]$$

$$\rightarrow 17,000 \text{ at } 0.67\% \text{ W/O}_3 + 44,100 \text{ at } 0.7\% \text{ W/O}_3$$

$$= 61,100 \text{ at } 0.69\% \text{ W/O}_3$$

$$\therefore \text{Sub-total} = \begin{cases} 177,900 \text{ at } 0.83\% \text{ W/O}_3 \\ + 61,100 \text{ at } 0.69\% \text{ W/O}_3 \end{cases}$$

$$\Sigma = 239,000 \text{ at } 0.79\% \text{ W/O}_3$$

Rsc MINED since Feb '80

A lens. 10575 - 600 300 tonnes.
 10550 - 575 1480 tonnes

54600
 1800
52800

1780

B lens 10725 - 10750 1248 tonnes
 10400 - 10425 1106 tonnes

2400

B. ORE 10550 - 575 615
 10575 - 600 2153
 10600 - 625 1470

F.B. BF₁ 10375 - 400 2417
 10400 - 425 2960

162034

BF₂ 10425 - 10450 571
 10450 - 475 4060

C₁ LENS R60 { 10550 - 575 438
 10575 - 600 1212

DECL 10375 - 400 565
 10400 - 425 700

T47 10450 - 475 3969
 10475 - 500 6102
 10500 - 525 565

162035

C₂ LENS

10625 - 650	R60	}	410 A.
10600 - 625			B425
10575 - 600	T53	}	516
10550 - 575			6620
10525 - 550			2433
10500 - 10525			3643

C WEST.	10575 - 600	1000	}	C ₂
	10550 - 575	2022		

COMBINED ORE RESOURCE TABLE

OREBODY	PROVEN		CHANGE		PROBABLE		CHANGE		POSSIBLE TONNES	TOTAL PROVEN + PROBABLE		CHANGE		
	TONNES	%WO ₃	1000T.	%WO ₃	TONNES	%WO ₃	1000T.	%WO ₃		TONNES	%WO ₃	1000T.	%WO ₃	
No. 1 OREBODY:														
"C" LENS, (219840E - DRILL SECTION 15)														
WEDGEBLOCK														
WESTERN EXTENSION, (DRILL SECTION 15-22)														
"B" LENS														
SUB TOTAL:														
DOLPHIN OREBODY:														
"B" LENS														
"C" LENS WEDGE														
CENTRAL														
PIT														
SOUTHERN														
SUB TOTAL:														
BOLD HEAD OREBODY:														
"A" LENS	79,400	0.92	-1.8	NIL	173,900	0.67	NIL	NIL	31,000	NIL	253,300	0.75	-1.8	NIL
"B" LENS MAIN	169,200	0.97	-2.3	NIL	23,200	1.35	NIL	NIL	24,000	NIL	192,400	1.02	-2.3	NIL
WEST + WEST LOWER	6,200	0.71	NIL	NIL	63,600	0.81	NIL	NIL	NIL	NIL	69,800	0.80	NIL	NIL
EAST	13,100	1.06	NIL	NIL	1,900	1.17	NIL	NIL	NIL	NIL	15,000	1.07	NIL	NIL
BOUNDARY FAULT BLOCK	493,400	0.92	-10.0	NIL	46,200	0.95	NIL	NIL	3,000	NIL	539,600	0.92	-10.0	NIL
BOUNDARY ORE	8,100	0.83	-1.2	NIL	17,000	0.87	-3.0	NIL	NIL	NIL	25,100	0.86	-4.2	NIL
"C ₁ " LENS	243,700	0.91	-13.6	NIL	25,200	0.91	NIL	NIL	177,000	+161,000	268,900	0.91	-13.6	NIL
"C ₂ " LENS	145,900	1.06	-21.1	+0.04	180,800	1.01	-2.8	NIL	37,000	NIL	326,700	1.03	-23.9	-0.02
"C" LENS WEST	62,400	0.85	-0.6	-0.01	40,000	0.83	-15.4	NIL	NIL	NIL	102,400	0.84	-16.2	-0.01
"D" LENS	45,000	0.88	NIL	NIL	14,300	1.14	NIL	NIL	8,000	NIL	59,300	0.94	NIL	NIL
SUB TOTAL:	1,266,400	0.94	-50.6	NIL	586,100	0.88	-21.2	NIL	280,000	+161,000	1,852,500	0.92	-71.8	NIL
TOTAL:														

11. UNDERGROUND TECHNICAL SERVICES
 111. SUMMARY OF TOTAL UNBROKEN ORE RESOURCE AS AT
 COMPARISON WITH PREVIOUS CALCULATION ()
 AND
 1020000
 GEOLOGY PAGE 1

162035

Bald Head Mining Reserves
10 April, 1979.

102000 RESOURCE TONNAGE ESTIMATIONS FOR BOLD HEAD 1980/81

STOPE	Resource available to stopes @ 28.2.79	Tonnes mined P3-7 1979/80	Revised budget tonnes P8-13 1980	Resource available to stopes @ 30.6.80
H50	253,100	1,800	3,000	248,300
R70	196,600	441	3,000	188,700
B-SLOTS		2,080	2,400	
UNDERRUN ORE	20,000	3,500	2,500	14,000
WILL BLOCK	401,200	8,900	10,000	380,000
L60	35,000	—	—	35,000
T47	70,000	—	—	70,000
R60	64,500	7,330	9,000	48,500
T53	82,850	8,000	12,000	62,850
WEST	Say 40,000	7,860	9,000	Say 23,000
LENS	46,500	1,610	—	44,890

13/2

73-79

79/80

REDUCTION IN MINING RESERVE

REDUCTION IN RE SOURCE

AREA	P9	P 10	P 11	P 12	P 13	P 1	P 2	TOTAL	factor			
A LENS	638	1153	481	879	58			3209	0.6728	4770		
B LENS MAIN SOUTH (329 - 525)	430	658	76	811	771	11447	659	4852	0.65	7465		
(675-750) MAIN NORTH (P70)				684	1555	661	253	13153	0.7920	13981		
BOUNDARY ORE (PST)	1477	1332	533			719	1558	5200 419	0.8280 0.7245	6300 578	PROVEN PROBABLE	
B. FAULT 350 + 525	1296	575	1905	1760	3035	777	3272	12620	0.8309	15188		
C LENS CI 525 - 700	2458	3705	1648	4623	4110	5001	2766	24305	0.7948	30520		
CII 525 - 700 PROBABLE	1273	3664	2510	168	270	2610	3398	13893	0.7252	19157		
C WEST	485	567	1141	1497	1237		3082	8009	0.4140	19345	PROVEN	87400
D LENS	238			102	618			958	0.7800	1228		
TOTAL	8296	11651	8289	10523	11653	11216	14982	76610		21150	PROBABLE	21200
										108592	TOTAL	

LENS	SUBDIVISION	P R O V E N				P R O B A B L E				P O S S I B L E RESOURCE	T O T A L (P R O V E N + P R O B A B L E)			
		RESOURCE		RESERVE		RESOURCE		RESERVE			RESOURCE		RESERVE	
A LENS	A LENS NORTH	83,670	0.92	56,300	0.78						83,700	0.92	56,300 ✓	0.78
	A LENS WEST	7,800	0.83	5,900	0.76						7,800	0.83	5,900 ✓	0.76
	A LENS SOUTH					164,900	0.68	69,300	0.41	20,000	164,900	0.68	69,300 ✓	0.41
		91,500	0.91	62,200 ✓	0.78	164,900	0.68	69,300 ✓	0.41	20,000	256,400	0.76	131,500 ✓	0.58
B LENS MAIN	10750 - 10800N					9,010	1.74	6,800	1.39		9,000	1.74	6,800 ✓	1.39
	10625 - 10750N	50,180	0.83	36,500	0.76					50,100	0.83	36,500 ✓	0.76	
	10525 - 10625N	35,040	0.64	20,900	0.60					35,000	0.64	20,900 ✓	0.60	
	10425 - 10525N	58,100	1.06	34,000	0.90					58,100	1.06	34,000 ✓	0.90	
	10325 - 10425N	38,850	1.33	26,100	0.80	15,230	1.21	8,500	0.73		54,100	1.30	34,600 ✓	0.78
	10200 - 10325N									20,000				
		182,200	0.97	117,500 ✓	0.78	24,200	1.41	15,300 ✓	1.02	20,000	206,400	1.02	132,800 ✓	0.81
B LENS WEST		6,200	0.71	-	-	55,500	0.82	27,800 ✓	0.66		61,700	0.81	27,800 ✓	0.66
B LENS WEST LOWER						8,100	0.78				8,100	0.78		
B LENS EAST		13,100	1.06			1,900	1.17				15,000	1.07		
BOUNDARY ORE		6,300	0.97	5,200 ✓	0.82	4,700	1.00	10,700 ✓	0.85		21,000	0.99	15,900 ✓	0.84
FAULT BLOCK	B FAULT I	272,380	0.99	217,140	0.85	55,840	0.63	20,100	0.50	10,000	328,200	0.93	237,200 ✓	0.82
	B FAULT II	206,840	0.75	184,580	0.64	47,900	0.75	14,370	0.60	5,000	254,700	0.75	189,000 ✓	0.64
		479,200	0.89	401,700 ✓	0.75	103,700	0.69	34,500 ✓	0.54	15,000	582,900	0.85	486,200 ✓	0.74
C ₁ LENS	10525 - 10700N	103,650	0.73	82,380	0.66						103,600	0.73	82,400 ✓	0.66
	10200 - 10525N	126,170	0.94	72,920	0.79	19,050	1.20	9,600	0.96	40,000	145,200	0.97	82,500 ✓	0.81
	C ₁ WEST					60,800	0.86	25,200	0.73		60,900	0.86	25,200 ✓	0.73
		229,800	0.84	155,300 ✓	0.72	79,900	0.94	34,800 ✓	0.79	40,000	309,700	0.87	190,100 ✓	0.73
C ₂ LENS	10525 - 10700N	136,980	1.13	99,340	0.81	12,290	0.98	7,000	0.69		149,300	1.12	106,300 ✓	0.80
	10200 - 10525N	65,620	1.06	36,200	0.85	73,520	0.72	38,800	0.58		139,100	0.88	75,000 ✓	0.71
	C ₂ WEST					33,510	0.86	13,870	0.74	40,000	33,500	0.86	13,900 ✓	0.74
		202,600	1.11	135,500 ✓	0.82	119,300	0.79	59,700 ✓	0.63	40,000	321,900	0.99	195,200 ✓	0.76
D LENS						45,200	0.95	35,300 ✓	0.67		45,200	0.95	35,300	0.67
BOLD HEAD TOTAL		1,210,900	0.93	877,400	0.76	617,400	0.81	287,400	0.62	135,000	1,828,300	0.89	1,164,800 ✓	0.73

RESOURCE

RESOURCE OCT '78

"A" LENS	260 100	0.76
"B" LENS MAIN	211 200	1.02
WEST	61 700	0.81
WEST LOWER	8 100	0.73
EAST	15, 000	1.07
"B" LENS FAULT BLOCK	526 200	0.85
BOUNDARY ORE	21 600	0.39
"C ₁ " LENS	332, 000	0.87
"C ₂ " LENS	340, 300	1.00
"D" LENS	46 500	0.95
	1,822, 700	0.91

ORE RESOURCE	APRIL '79	VARIANCE	TONNES.	YES
256, 400	0.76	- 3700		NO
206 400	1.02	- 4800		NO
61 700	0.81	NO		NO
8 100	0.73	NO		NO
15 000	1.07	NO		NO
582, 900	0.85	+ 56700		YES
21 600	0.39	NO		NO
303 700	0.87	- 22 300		NO
321 900	0.99	- 18 400		YES
45 200	0.95	- 1800		NO
		- 47 200		
		+ 51 700		
		+ 7, 500 ?		
56 00				Deny

ORE RESERVE OCT '78

"A" LENS	134 000	0.59
"B" LENS MAIN	133 600	0.80
WEST	27, 800	0.66
WEST LOWER	-	-
EAST	-	-
"B" LENS FAULT BLOCK	455 200	0.79
BOUNDARY ORE	16, 200	0.80
"C ₁ " LENS	222 300	0.73
"C ₂ " LENS	219, 900	0.78
"D" LENS	30, 700	0.86

ORE RESERVE	APRIL '79	VARIANCE	YES
131, 500	0.58	- 2500	YES
132, 800	0.81	- 6800	YES
27 800	0.66	NO	NO
-	-	-	-
-	-	-	-
436 200	0.74	- 19000	YES
15, 900	0.84	- 300	NO
190 100	0.73	- 32 700	NO
195 200	0.76	- 24 700	YES
35 300	0.67	+ 4, 600	YES
		- 85, 500	
		+ 4 600	
		- 80, 900	
1, 164, 800			
-80, 100			

1237, 100
1164, 800
72, 300

162000

113 FEB 1979

AREA	Oct. 1978	APRIL 1979	TOTAL CHANGE	MINING CHANGE	RESOURCE CHANGE
LENS PROB	95,200 0.91	91,500 0.91	-37	NIL	NIL
PROB	104,900 0.68	104,900 0.68	-	-	-
LENS PROB	186,900 0.97	182,200 0.97	-47	NIL	NIL
PROB	24,300 1.41	24,300 1.41	-	-	-
F1 PROB	278,500 1.00	272,400 0.99	-6.1	-0.01	+4.8
PROB	4,900 1.03	55,800 0.63	+45.9	-0.40	+46.6
F2 PROB	207,700 0.75	206,500 0.75	-2.9	-	-2.9
PROB	29,100 0.87	47,900 0.75	+19.8	-0.12	+19.8
LENS PROB	6,300 0.97	6,300 0.97	-	-1.9	+1.9
PROB	15,300 1	14,700 1	-0.6	-	-0.6
LENS PROB	252,070 0.85	229,520 0.84	-22.3	-0.01	-22.3
PROB	19,050 1.20	19,050 1.20	-	-	-
LENS PROB	217,910 1.12	202,600 1.11	-15.3	-0.01	-15.3
PROB	85,200 0.75	85,200 0.75	-	-	-
WEST	60,860 0.86	60,260 0.86	-	-	-
WEST PROB	36,570 0.87	33,510 0.86	-3.1	-0.01	-3.1
				-65.5	+72.5

EXPLANATION OF RESERVE CALCULATIONS APR 1979

COMMENTS ON RESERVE CALCULATIONS

<u>A-LENS:</u>	% MINEABLE	0.65			
<u>NORTH</u>	% RECOVERY	0.90		(CAN NEVER GET TO 1.0)	
10550 NORTH	% DILUTION	0.15			{ 0.05% based on last 22 Periods 0.15% - - - 9 Periods
<u>A-LENS WEST</u>	% MINEABLE	} 0.69			
SHADED AREA ALONG N ² FAULT	% RECOVERY				
	% DILUTION	0.10			

{ CROWN PILLAR
IRREGULAR ORE BOUNDARY

NO CHANGE ON APRIL FACTORS :- ONLY DIFFERENCE IS ^{DU} DROP IN TONNES DUE TO MINING CARRIED OUT.

B-MAIN LENS

<u>10 675 NORTH => P70</u>		% MINEABLE	0.80
		% RECOVERY	0.90
50180	0.83	41649	% DILUTION 0.10
16740	0.84	14062	
<u>33440</u>	<u>0.82</u>	<u>27578</u>	

RES. GRADE IN OCTOBER '78	0.83	RESERVE GRADE	0.75
" " " APRIL '79	0.82	" " "	0.74

Hence drop in both of 0.01% -

REASON FOR DROP OF 0.01%

	AUG 78		FEB 79		VARIANCE
10675 - 10750N	14,060	0.84	14060	0.84	
10700 - 10725N	11,320	0.57	10390	0.57	- 930
10725 - 10750N	11,220	1.09	8990	1.09	- 2230
					- 3160

162042

B - LENS CONTINUED

110 APR 1979

162043

625 - 675

NO CHANGE IN TONNES

SOURCE 16740 @ 0.84% RESERVE 10,000 @ 0.80
RECOVERABLE BY PILLAR RECOVERY

% MINERABLE 0.60 (Some ore in floor considered not recoverable)
% RECOVERY 0.95
% DILUTION 0.05

525 - 625

AUG '78

FEB '79

RESERVE 36250 @ 0.64 35,040 @ 0.64%
RESERVE 24,300 @ 0.56 20900 @ 0.60%

Reserve dropped by 4,000 tonnes

Reason: - Primary stoping in the area is now complete - Pillar Recovery ore left: -

% minability 0.60
% Recovery 0.95
% Dilution 0.05

425 - 525

Primary slot stoping now complete
Pillar Recovery left and considered to be

60% minable (25% dilution recorded in last 22 periods)
95% recovery
0.15% dilution

425 - SOUTH

Primary stoping still to be started, slot veins to be cut and veins to be stopped out (last 22 periods 38% dil)

60% minable
80% recovery
40% dilution

→ experience to date suggests poor ground condition (wet & broken) with excessive dilution resulting -

102064

110 APR 1979 13 FEB 1979

B LENS MAIN (TOTALS)

Section	Proval Cie	Proval Cie	Total	Grade
10325 - 10350N	1390	8470	10360	1.24
10350 - 10375N	5740	6760	12500	1.18
10375 - 10400N	16430		16430	1.42
10400 - 10425N	14790		14790	1.29
10425 - 10450N	15890		15890	1.36
10450 - 10475N	10120		10120	1.21
10475 - 10500N	15980		15980	0.88
10500 - 10525N	16110	-300	16110	0.85
10525 - 10550N	11950		11950	0.63
10550 - 10575N	8470		8470	0.63
10575 - 10600N	8910		8910	0.63
10600 - 10625N	5710		5710	0.71
10625 - 10650N	6770	16740	6770	0.72
10650 - 10675N	9970		9970	0.92
10675 - 10700N	14060	970	14060	0.84 x
10700 - 10725N	10390	33440	10390	0.57 x
10725 - 10750N	8990		8990	1.09
10750 - 10775N		2130	8130	1.74
10775 - 10800N		220	830	1.74
	182170	24210	206410	1.07
	(0.97)	(14)		

B-EAST - comment in October was that: -

No B east this year. Budget loan constituted
4% of Tonnes and 5% of MTU's

Hence written off October 1978

B-WEST - written off October 1978.

BOUNDARY :

OCT '78 RESOURCE 0.96% OCT '78 RESERVE 0.82%

↳ this was reduced due to dilution of 15%

latest fig's indicate dilution is about 16%

Hence leave dilution as 15%

mineable 80%

Recovery 90%

} TYPICAL CMO OUT 2 FIG
FIGURES.

NO CHANGE IN TONNES SINCE OCT '78

BECAUSE ALTHOUGH WE HAVE MINED 1.9%

RESOURCE HAS BEEN INCREASED BY 1.9%

110 APR 11

BF₁

102040

OCT 1978 FIGS		RESOURCE		RESERVE	
<u>BF₁</u>	(350 - 525)	235,500	1.00	209,200	0.9
	(525 - 625)	43,060	1.00	26,600	0.9

APRIL 1979

BF ₂	(350 - 525)	229,320	1.00	203,700	0.90
	(525 - 625)	43,060	0.91	26,600	0.8

FACTORS BF₂ (350 - 525)

- 85% MINEABLE
- 95% RECOVERY
- 10% DILUTION (ORE 'PATCHY')

Production figures from last year not much help as no BF₂ has been mined in its own right.

BF₂ (525 - 625)

- 75% MINEABLE
- 75% RECOVERY
- 10% DILUTION

} ORE BOUNDARYS IRREGULAR.

- ① 6190 tonnes dropped from section 350-375 since Oct 78
- ② Error in October's resource grade for section 525-625 should be 43,060 @ 0.91% not 43,060 @ 1.02 hence reserve grade dropped from 0.90 to 0.82%

10 APR 1979
13 FEB 1979

B. FAULT I

10300N (3-242' at 0.5%)
10275N (500')

162047

Tonnes = $\frac{25 \times 257}{2} (242 - 500 \cdot J)$

= 15,522 tonnes at 0.5%

10275N } possible ore say 10,000 tonnes.
10250N }

Section	Tonnage	Miles (20% dilution)	Remainder
10325N - 10350N	15,527	712	4,825
10350N - 10375N	24,402	17,783	6,350
10375N - 10400N	47,015	6,607	40,408

TOTALS EFF.	Remain Ore	Possible Ore	Total	Grade
10275 - 10300N		15,550	5,250	0.5
10300 - 10325N		25,400	55,400	0.6
10325 - 10350N		14,530	14,530	0.8
10350 - 10375N	6,380		6,380	1.02
10375 - 10400N	40,410		40,410	0.93
10400 - 10425N	36,200		36,200	0.89
10425 - 10450N	31,340		31,340	1.01
10450 - 10475N	42,040		42,040	1.06
10475 - 10500N	38,710		38,710	1.10
10500 - 10525N	34,240		34,240	1.16
10525 - 10550N	55,530		55,530	0.99
10550 - 10575N	10,690		10,690	0.91
10575 - 10600N	6,410		6,410	0.64
10600 - 10625N	430		430	0.59
TOTALS	272,380 (0.99)	55,840	328,220	0.92

Loss of Oct 78 -6190

229,320 1.01

43,060 0.91

MTM 231,564

MTM 39,359 0.91

✓

in Dilution of 15% means increase in Resource tonnes compared with Oct '78

<p>April '79</p> <p>(350 → 525)</p> <p>182,620 0.75</p> <p>24,220 0.77</p> <p>206,840 0.75</p>		<p>Oct '78</p> <p>(350 → 550)</p> <p>202,050 0.75</p> <p>7630 0.75</p> <p>209,680 0.75</p>	
<p>(350 → 525)</p> <p>169,600 0.64</p> <p>14,980 0.69</p> <p>184,580 0.64</p>		<p>(350 → 525)</p> <p>179,580 0.67</p> <p>4,700 0.67</p> <p>184,280 0.67</p>	
<p>(350 → 525)</p> <p>164,750 0.68</p> <p>14,980 0.60</p> <p>179,730 0.68</p>		<p>(350 → 550)</p> <p>179,580 0.67</p> <p>4,700 0.67</p> <p>184,280 0.67</p>	

Dilution by Oct '78 10% lower performance factor suggests it should be 15% (result of last 2 periods)

BF ₂ (350 → 525)	% mineable	0.85
	% recovery	0.95
	% dilution	0.15

Also grade reported for section 550 to 625 was in error and should have been 0.67 not 0.75

Resource tonnes reported in (350 → 525) section were actually the total tonnes from (350 → 550) section - inclusive. Hence the tonnes reported were inflated by the addition of (525 → 550) section tonnes.

Note: immediately reported in Oct 1978.

110 APR 1979

162048

BF₂ (extraction)

170 APR

13 FEB 1979

162018

10500 - 10525N RS2 P3 14 0.72

10425 - 10450N C37 P8 3173 0.59

TOTAL EXTRACTION

10500 - 10525N 6024 + 14 = 6038 tonnes } 24353 - 0434 = 18919 } 10%
 10425 - 10450N 7554 + 3173 = 10,727 tonnes } 40357 - 0654 = 30703 }

TOTALS BF ₂	100% Ore	100% Ore	Total	Grade
10275 - 10300N		6900	6900	0.7
10300 - 10325N		15,080	15,080	0.7
10325 - 10350N		25,920	25,920	0.8
10350 - 10375N	✓ 32,230	} 182,620 0.75% EXTRACTION - 3173 @ 0.59	32,230	0.74
10375 - 10400N	✓ 25,160		25,160	0.60
10400 - 10425N	✓ 17,970		17,970	0.68
10425 - 10450N	30,700		30,700	0.78
10450 - 10475N	✓ 32,130		32,130	0.83
10475 - 10500N	✓ 25,510		25,510	0.78
10500 - 10525N	✓ 18,920	182,620 0.75	186,240	0.79
10525 - 10550N	✓ 16,580	} 24,220 0.772 increased by 5 ton	16,580	0.82
10550 - 10575N	6,630		6,630	0.69
10575 - 10600N	150		150	0.46
10600 - 10625N	860		24220 0.77	18678
	206,840	47,900	254,740	0.75
	(0.75)	(0.75)		

206,840 0.75 155,302

110 APR 1979
162050

C-LENS CI

(525 → 700)

- MINING METHOD -

{ TRANSVERSE PILLAR +
MECHANISED CUT & FILL
ALL READY IN OPERATION
ABOVE 525 N.

MINEABLE - 85% (gradational ore boundaries)

RECOVERY - 85% - Transverse pillars

DILUTION - 10% mining to date in CI lens suggests
low dilution (5%) - but use
60% for the moment

CI (200 → 525)

- MINING METHOD -

{ MECHANIZED ROOM AND PILLAR
+ SOME SLOT STOPPING

MECH C.R.F. - IRREGULAR ORE BOUNDARY WITH POOR CORRELATION
BETWEEN SECTIONS (400 → 525)

SLOT. - BELOW 400 SECTION ORE ONLY 1 OR 2 METRES WIDE.

MINEABLE - 60% (poor correlation between sections
irregular ore boundaries)

RECOVERY - 80% some random pillars required

DILUTION - 20%

SEE NEXT PAGE FOR A BREAKDOWN SECTION BY SECTION

CI LENS (200 - 525)

110 APR 1977

162051

SECTION	COMMENTS	RESOURCE TONNES	RESERVE TONNES	m ³ /t	Rec	Dil	FACTOR
325 - 350	P	3,454					
350 - 375	P	5,434					
375 - 400	P	10,159					
		19,000					
400 - 425	SLOT STAMPING - STRINGY, QUESTIONABLE CONTINUITY. BANDS OF WASTE IN ONE	11,949		0.50	0.60	1.20	0.3600
425 - 450	MECH R & P - POOR CONTINUITY.	18,217		0.80	0.85	1.15	0.7820
450 - 475	MECH R & P CAVO C & F ADJ TO N°2 FANCT	31,302		0.60	0.80	1.15	0.5520
475 - 500	CAVO C & F	36,480		0.60	0.80	1.15	0.5520
500 - 525	500 (25m wide x 8m HIGH) MECH R & P 525 (15m wide x 10m HIGH)	28,223		0.80	0.70	1.15	0.6440
		126,171		AVE = 0.66	0.75	1.16	0.578

145,171

10 APR 1979

13 FEB 1979

LENS TOTALS

102032

	Proven C/c	Pretable C/c	Total	Grade	
10325 - 10350N		3,454	3,454	1.25	
10350 - 10375N		5,434	5,434	1.22	
10375 - 10400N		10,159	10,159	1.17	
10400 - 10425N	126,171 0.95%	11,949	11,949	0.87	
10425 - 10450N		18,217	18,217	0.92	
10450 - 10475N		31,302	31,302	1.02	
10475 - 10500N		36,480	36,480	0.97	
10500 - 10525N		28,223	28,223	0.88	
10525 - 10550N	103,652 0.73	16,032	16,032	0.82	
10550 - 10575N		20,165	20,165	0.87	
10575 - 10600N		31,309	31,309	0.71	
10600 - 10625N		19,668	19,668	0.55	
10625 - 10650N		14,007	14,007	0.69	
10650 - 10675N		2,471	2,471	0.73	
	229,823 ✓	229,823 (0.84)	19,047 (1.20)	248,870	0.87

MTM
119,305 ✓

MTM
75,205

0.9463

1.024

0.85

194,510

Proven C/c

10400 - 10525N

126,171

0.94

10525 - 10675N

103,652

0.73

CII LENS (PROVEN)

10 APR 1979

162053

SECTION	COMMENTS	RESOURCE TONNES	M'ble	Rec	Dil	Factor
525 - 550	MECH C & F - ^{SOME ORE LOST} IN SILL PILLAR SOME SLOT MINING OF THIN LENSES Cavo FOR MAIN POD SLOT FOR LENSES.	29,639	0.80	0.80	1.25	0.8000
550 - 575		19,268	0.65	0.75	1.30	0.6338
575 - 600		30,800	0.70	0.85	1.30	0.7735
600 - 625	MECH C & F SOME PILLAR SUPPORT _{REQD}	21,987	0.80	0.75	1.25	0.7500
625 - 650		16,813	0.70	0.75	1.25	0.6563
650 - 675	Cavo C & F PATCHY ORE	16,785	0.75	0.75	1.30	0.7313
675 - 700		1,686	0.75	0.75	1.30	0.7313
		136,978	0.74	0.77	1.28	0.7252

(525 → 700)

Note: high dilution in mining of CII lens to date. (37%)

SECTION	COMMENTS	RES TONNES	M'ble	Rec	Dil	Factor
400 - 425	Pod adj to grade	19396	0.80	0.90	1.20	0.8640
	Cavo C & F					LENS OUT OF FACTORS USE TWO BELOW
425 - 450	Pod adj to grade					
	C/F as above but thinner & lower grade	6974	0.50	0.90	1.20	0.5400
450 - 475	NO MINING TO THIN	4721	-	-	-	-
475 - 500	" " " "	7336	-	-	-	-
500 - 525	MECH ROOM & PILLAR	27,193	0.60	0.80	1.20	0.5760
		65620	0.55	0.85	1.20	0.5580

C₂ LENS (TOTAL EXTRACTION)

110 APR 1979

13 FEB 1979

102000
 10%
 1000000

10525 - 10550N	228 tonnes at	0.30%	37078	1.05	37078
10550 - 10575N	287 tonnes at	0.30%	24229	1.15	24114
10575 - 10600N	2844 tonnes at	0.85%	23860	2.660	30800
10600 - 10625N	4256 tonnes at	0.35%	7874	0.69	
	12130	0.75	22000	10.977	21987
10625 - 10650N	1782 tonnes at	0.34%	16813	1605	16813

C ₂ LENS	TOTALS	Proven Cc	Predictable Cc	Total	Grade	
10325 - 10350N			22,655	22,655	0.50	
10350 - 10375N			26,490	26,490	0.55	
10375 - 10400N			24,370	24,370	1.10	
10400 - 10425N	65,620 1.06	19,396		19,396	1.20	
10425 - 10450N			6,974	6,974		0.85
10450 - 10475N			4,721	4,721		1.08
10475 - 10500N			7,336	7,336		1.06
10500 - 10525N			27,193	27,193		1.02
						69,815
10525 - 10550N	136,978 1.1362	29,639	7439	37078	0.94	
10550 - 10575N			19,263	4800	24114	1.00
10575 - 10600N			30800		30800	1.34
10600 - 10625N			21987		21987	1.28
10625 - 10650N			16813		16813	1.16
10650 - 10675N			16785		16785	1.04
10675 - 10700N			1686		1686	0.33
		202,598	85,801	288,399	1.01	
		(1.11)	(0.76)			

CI : PROBABLE

		n/ble	Rec	Dil	Factor
(325 - 350)	Upper lens slot stoping but thin	0.60	0.60	1.20	0.4320
(350 - 375)	Thin but possible slatting	0.50	0.60	1.20	0.3600
(375 - 400)	Slot stoping upper lens only	0.70	0.80	1.15	0.6440
		0.60	0.67	1.18	0.4733

wd : 0.60 0.70 1.2 = 0.5040

CI - WEST PROBABLE

FACTORS

SECTION	COMMENTS	n/ble	Rec	Dil	
375 - 425	N/A				
425 - 450	N/A				
450 - 475	Practically No ore				
475 - 500	Thin ore on 500 but not 475				
500 - 525	Thick section - possible concave slope but very close to W. Fault - skin of ore might have to be left.	0.80	0.60	1.15	
525 - 550	Reasonable section - again close to W. Fault, could affect total mining of block - only one D.D. hole	0.70	0.60	1.15	
550 - 575	only one hole, but otherwise a good section	0.60	0.60	1.15	
575 - 600	one hole only - but shown as good intersection	0.60	0.60	1.15	
600 - 625	poorly defined section, but away from W. Fault	0.55	0.60	1.15	
625 - 650	poor section - most of geology is interpretation	0.50	0.60	1.15	
650 - 675	No holes - no reserve				
		0.63	0.60	1.15	0.4347
		0.60	0.60	1.15	0.4140

CII (525-700) (MAIN)

SECTION	COMMENTS	% MIBL	% REL	% DIL			
350 - 375	Western pod isolated do not include Rest - possibly slots	0.50	0.80	1.15	1850	0.62	1147
375 - 400	AS ABOVE	0.50	0.80	1.15	3603	0.73	2633
400 - 425	only one useful hole - assume continuity of slot stages	0.50	0.90	1.15	2160	0.97	2093
425 - 450	No ore on sect'n - exclude						
450 - 475	V. Thin sect'n against N° 2 fault only. Two pods upper & lower Discard lower lens. - assume slot stopping of upper	0.60	0.70	1.15	3578	0.77	2768
475 - 500	Two V-Thin stringers. Discard lower - too thin. Only 50% of top one OK	0.40	0.70	1.20	3841	0.82	3134
500 - 525	Ignore lower pod = 10% Difficult to mine mechanically, & then use =>	0.70 0.58	0.80 0.80	1.20 1.20	5216	0.81	4215
525 - 550	Thick section at Western Fault but localized in this section	0.80	0.95	1.15	11895	0.80	9504
550 - 575	Thin centre sect'n - low grade	0.80	0.85	1.15	3772	0.90	3308
575 - 600	—						
600 - 625	—						
625 - 650	Good intersection Caro C & F ?	0.60	0.85	1.10	4216	1.04	4364

Total probable C₂ : 525 - 700 = 10883 0.87 17266

525 - 350 = 20,248 0.79 15,990

350 → 525 30% dilution
55% mineable
80% recovery

500 → 525 20% dilution
55% mineable
80% recovery

Note: error in resource table (Aug'78)
CII 12, 290 → 0.72
(525 → 700)
CII 73,520 → 0.98
(500 → 525)

SECTION	COMMENTS	FACTORS			
		% m. bl	% rec	% dil	
425 - 450	Nil ore	—	—	—	—
450 - 475	section against W Fault localized - not a section Nor South	0.50	0.60	1.15	
475 - 500	Nil - ore	—	—	—	—
500 - 525	3 dd holes - substantial section, against granite. lower stringer too thin.	0.75	0.70	1.15	
525 - 550	poor section - mainly interpretation	0.50	0.60	1.15	
550 - 575	Good section - only one dd hole cavo - cut & fill?	0.70	0.70	1.10	
575 - 600	Nil - ore	—	—	—	—
600 - 625	banded - thin & stringy	0.40	0.60	1.20	
625 - 650	only one hole close to granite	0.40	0.70	1.15	
650 - 675	Good next to granite - doubtful toward W. Fault.	0.80	0.60	1.15	
675 →	No holes - interpretation only	—	—	—	—
		0.58	0.64	1.15	0.4288

use → 0.60 0.60 1.15 0.4140

PROVEN

BOLD HEAD MINING RESERVES

@ 6/4/1979 (FOR APRIL '79 MEETING)

102050

10 APR 1979

AREA	MINING METHOD	RESOURCE @ 6-4-79	% W ₀₃	RESERVE @ 6-4-79	% W ₀₃	RESERVE M.T.U.	CALCULATION REMARKS.	RESERVE VARIANCE ON OCT. TONNE	FACTORS			OVERALL FACTOR	RESERVE VAR. ON OCT. GRADE	MINING CHANGE	RESOURCE CHANGE	
									% M ³ BLE	% REC	% DIL					
A. LENS:																
NORTH	CAVO C&F	83,670	0.92	56,300	0.78	43,900	AS FOR OCTOBER	-4%	0.65	0.90	1.15	0.6728	NO	-3.7%	NIL	
WEST	"	7,800	0.83	5,900	0.76	4,480	" " "	-5%	0.65	0.90	1.10	0.7590	NO	-3.7%	NIL	
				62,200												
B. LENS:																
675 ^{NORTH} - 750 ^(P70)	CAVO C&F	33,440	0.82	26,500	0.74	19,610	do of 0.01% due to mining of 2200 @ 1.09%	-9%	0.80	0.90	1.10	0.7920	YES			
MAIN 625 - 675	PILL REC.	16,740	0.84	10,000	0.80	8,000	AS FOR OCTOBER	0%	0.60	0.95	1.05	0.5985	NO			
525 - 625	PILL REC.	35,040	0.64	20,900	0.60	12,540	primary stoping completed - pill rec. left.	-14%	0.60	0.95	1.05	0.5985	YES			
SOUTH {	425 - 525	SLOT R&P	58,100	1.06	34,000	0.90	30,600	AS FOR OCTOBER	-2%	0.60	0.85	1.15	0.5865	NO		
	325 - 425	PILL REC	38,850	1.33	26,100	0.80	20,800	AS FOR OCTOBER	0%	0.60	0.80	1.40	0.6720	NO		
		182,200	0.97	117,500	0.78	91,550		-8.3%						-4.7%	NIL	
WEST		6,200	0.71	-	-	-	WRITTEN OFF OCTOBER '78									
EAST		13,100	1.06	-	-	-	WRITTEN OFF (AROUND NS4) OCT. 78									
BOUNDARY ORE (P57)	CAVO C&F	6,300	0.97	5,200	0.82	4,260	AS FOR OCTOBER	0%	0.80	0.90	1.15	0.8280	NO	-1.9%	+1.9%	
B. FAULT BLOCK																
BF I																
350 - 525	MECH C&F	229,320	1.00	190,540	0.85	161,960	6100 tonnes dropped from sect 350/75	-3%	0.85	0.85	1.15	0.8309				
525 - 625	MECH C&F	43,760	0.91	26,600	0.82	21,810	Re grade dropped from 1.00% to 0.91%	0%	0.75	0.75	1.10	0.6188	YES			
		272,400	0.99	217,140	0.85	183,770								-10.9%	+4.8%	
BF II																
350 - 525	MECH C&F	182,620	0.75	169,600	0.64	108,540	Experience to date suggests dilution of 15%	-6%	0.85	0.95	1.15	0.9286	YES			
525 - 625	MECH C&F	24,220	0.77	14,980	0.69	10,330	see note about mix up in split (350-525) +350%		0.75	0.75	1.10	0.6188	YES			
		206,800	0.75	184,580	0.64	118,870								-2.9%	NIL	
				401,720	0.75	302,640										
C. LENS:																
C I																
525 - 700	MECH C&F	103,650	0.73	82,380	0.66	54,370	A more detailed assessment done this time	-15%	0.85	0.85	1.10	0.7948	YES			
200 - 525	MECH C&F + SLOT STOPING	126,170	0.94	72,920	0.79	57,600	For correlation between sections, this irregular ore bodies suggest a factor of 0.69%	-19%	0.66	0.75	1.16	0.578	YES			
		229,820	0.84	155,300	0.72	111,970	compared with 0.75%	-17%				0.69		-22.3%	NIL	
C II																
525 - 700		136,980	1.13	99,340	0.81	80,460	A more detailed assessment done this time	-18%	0.74	0.77	1.28	0.7252	NO			
200 - 525		65,620	1.06	36,200	0.85	30,770	For correlation between sections, ore patches with dilution in mining CII to date.	0%	0.55	0.85	1.20	0.5500	NO			
		202,600	1.11	135,540	0.82	111,230		-18%						-15.3%	NIL	
TOTAL BOLD HEAD		1,210,900	0.93	877,460	0.76	670,030		-9.5%			16%					

162061

10 APR 1977

ORE PRODUCTION 1977/78

BOLD HEAD

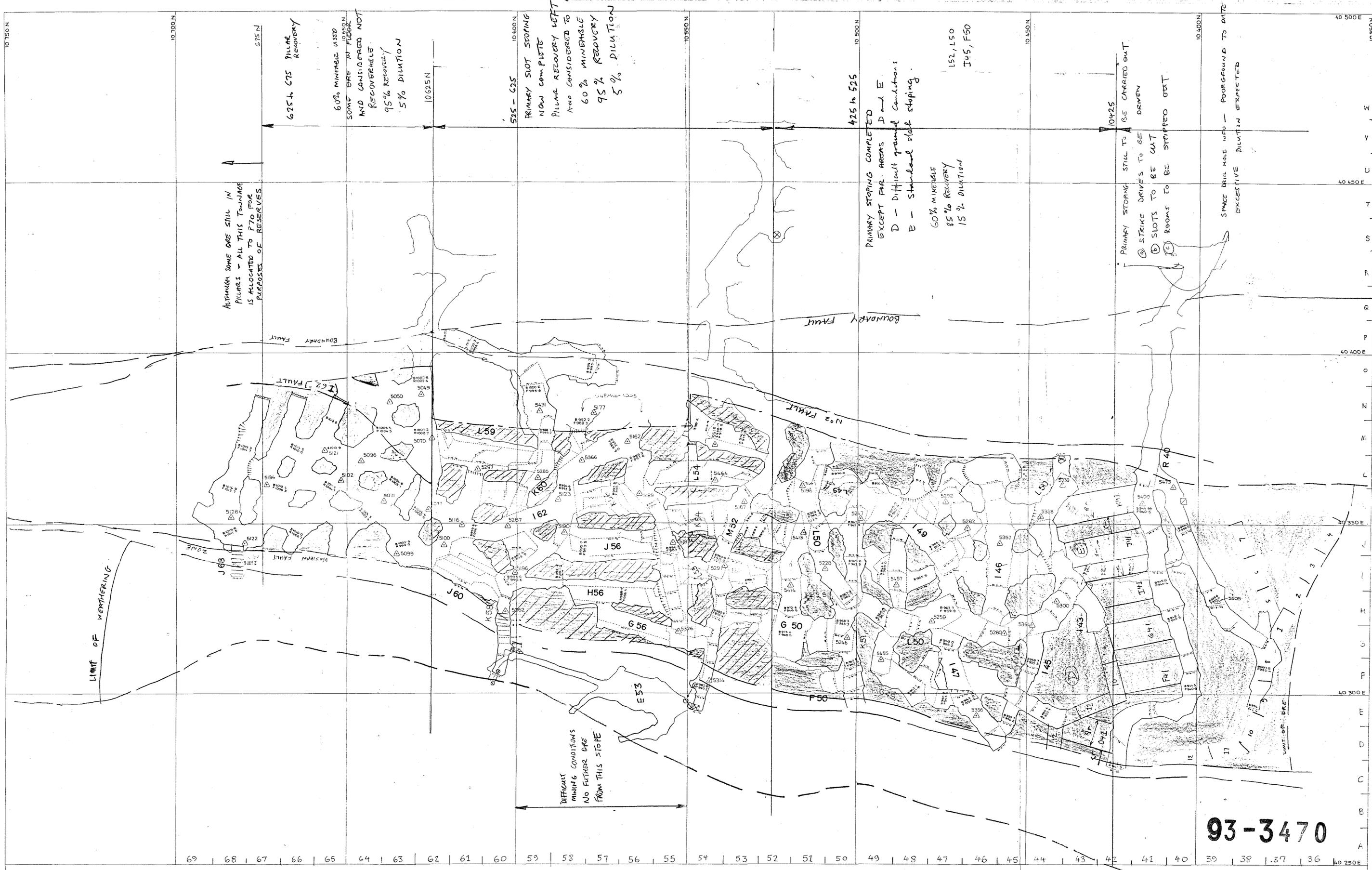
4.4.1979

AREA	1977-78 PROD'N		1978-79, P1 to P9		COMBINED		PERCENTAGE	PRESENT RESERVE GRADE
	TONNES	%	TONNES	%	TONNES	%	DILUTION IN RESOURCE GRADE APRIL 79	
A-LENS								
H50	4657	0.99	5474	0.77	10,131	0.87	-5%	
B-LENS								
P70	8159	0.76	3868	0.82	12,027	0.78	-6%	
525 to 625								
L54	1545	0.73	-	-	1545	0.73		
L55	547	0.88	1053	0.70	1600	0.76		
K54	422	0.66	-	-	422	0.66		
K56	347	0.61	-	-	347	0.61		
I52	-	-	788	0.61	788	0.61		
J52	-	-	487	0.50	487	0.50		
SUB TOTAL	2861	0.73	2328	0.63	5189	0.69	+3%	
425 - 525								
L52	4446	0.66	-	-	4446	0.66		
L50	6777	0.79	-	-	6777	0.79		
I45	1309	1.35	-	-	1309	1.35		
F50	420	0.39	-	-	420	0.39		
I49	-	-	347	1.04	347	1.04		
L49	-	-	430	0.8	430	0.8		
SUB TOTAL	12,952	0.79	777	0.91	13,729	0.80	-25%	
425 SOUTH								
L41	4899	0.83	-	-	4899	0.83		
R40	7168	0.89	-	-	7168	0.89		
I41/L41	-	-	1608	0.49	1608	0.49		
SUB TOTAL	12067	0.87	1608	0.49	13675	0.82	-40%	

AREA	1977-78 PRODN		1978-79 P1 to P9		COMBINED		DILUTION IN RESOURCE GRADE FEB 79	PRESENT RESOUR. GRADE
	TONNES	%	TONNES	%	TONNES	%		
FAULT BLOCK BF _I								
R40	1137	0.53	-	-	1137	0.53		
Q42	517	0.23	-	-	517	0.23		
SUB TOTAL	1654	0.44	-	-	1654	0.44	-56%	
FAULT BLOCK BF _{II}								
(350→525) R40	760	0.72	-	-	760	0.72		
R47	2074	0.90	-	-	2074	0.90		
043	13121	0.63	-	-	13,121	0.63		
046	16863	0.66	24,979	0.59	41,842	0.62		
048	1525	0.80	-	-	1525	0.80		
R52	566	0.50	570	0.58	1136	0.54		
SUB TOTAL	34909	0.67	25,549	0.59	60,458	0.64	-15%	
BOUNDARY ORE								
P57	9790	0.80	5746	0.83	15,536	0.81	-16%	
'CJ' LENS								
52 @ 700								
R55	7952	0.76	1678	0.50	9630	0.71		
Q55	6539	0.62	-	-	6539	0.62		
K55	1881	0.25	197	0.40	2078	0.26		
M54	1322	0.53	2190	0.71	3512	0.64		
L53E	-	-	5979	0.84	5979	0.84		
L53W	-	-	7036	0.65	7036	0.65		
L52	-	-	10,075	0.71	10,075	0.71		
L57	-	-	3483	0.88	3483	0.88		
SUB TOTAL	17694	0.64	30638	0.73	48,332	0.70	-4%	

162063 10 APR 79

AREA	1977-78		1978-79 P1 to P9		COMBINED		DILUTION IN RES GRADE FEB 79	PRESENT RESERV GRADE
	TONNES	PROP'N %	TONNES	%	TONNES	%		
"C2" LENS								
525-790								
R60	923	0.84	10,936	0.74	11,859	0.75		
R59	-	-	5098	0.74	5098	0.74		
K57	-	-	1174	0.39	1174	0.39		
DEC	-	-	575	0.30	575	0.30		
SUB TOTAL	923	0.84	17783	0.70	18706	0.71	-37%	
C WEST								
C_{II} WEST								
H59	-	-	3285	0.69	3285	0.69		
R55	-	-	366	0.13	366	0.13		
SUB TOTAL	-	-	3651	0.63	3651	0.63	-41%	
C_I WEST								
H59	-	-	2574	0.40	2574	0.40		
K65	-	-	1055	0.33	1055	0.33		
SUB TOTAL	-	-	3629	0.39	3629	0.39	-59%	
C_I + C_{II}			7280	0.51	7280	0.51		
"D" LENS								
DEC	-	-	3293	0.34	3293	0.34		
P64	-	-	2607	0.47	2607	0.47		
SUB TOTAL			5900	0.40	5900	0.40	-47%	



ALTHOUGH SOME ORE STILL IN PILLARS - ALL THIS TONNAGE IS ALLOCATED TO P70 FOR PURPOSES OF RESERVES

625h G75 PILLAR Recovery
 60% MINERABLE USED
 SOME ORE IN FLOOR AND CONSIDERED NOT RECOVERABLE
 95% RECOVERY
 5% DILUTION

525 - G25
 PRIMARY SLOT STOPING NOW COMPLETE
 PILLAR RECOVERY LEFT BE AND CONSIDERED TO BE
 60% MINERABLE
 95% RECOVERY
 5% DILUTION

425h 525
 PRIMARY STOPING COMPLETED EXCEPT FOR AREAS D and E
 D - Difficult ground conditions
 E - Standard slot stoping
 60% MINERABLE
 85% RECOVERY
 15% DILUTION
 152, L50
 J45, F50

10425
 PRIMARY STOPING STILL TO BE CARRIED OUT
 @ STRIKE DRIVES TO BE DRIVEN
 @ SLOTS TO BE CUT
 @ ROOMS TO BE STOPPED OUT

SPACE DRILL HOLE INFO - BACKGROUND TO DATE
 EXCESSIVE DILUTION EXPECTED

DIFFICULT MINING CONDITIONS
 NO FURTHER ORE FROM THIS STOP

93-3470

SCALE 1:500

ISG REFER REPORT 70-0676

5 cm

north

LOCATION

BOLD HEAD MINE

SUBJECT

B LENS MAIN STOPES

KIS KING ISLAND SCHEELITE
 DIVISION OF BARRICK INTERNATIONAL

GRASSY B-MAIN ORE MIN RESERVE

PLAN NUMBER 04BH15-1004 CALCULATIONS

162061
 110 APR 1979

140 APR 1979

	5/7 → 1			11/8 → 2			21/8 → 3			27/8 → 4			24/10 → 5			21/11 → 6			13/12 → 7			16/1 → 8			17/1 → 9			TOTAL							
	TONNES	%	MTU	TONNES	%	MTU	TONNES	%	MTU	TONNES	%	MTU	TONNES	%	MTU	TONNES	%	MTU	TONNES	%	MTU	TONNES	%	MTU	TONNES	%	MTU	TONNES	%	MTU					
"B" LENS NORTH 10625-NM P70	149	.7	105	-	-	-	337	.7	236	74	.7	52	1363	.85	1155	737	.97	716	790	.77	607	418	.75	314	-	-	-	-	3868	.82	3185				
"B" LENS SOUTH 10525-10625																																			
s L55	509	.7	354	395	.72	283	149	.7	105	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1053	.7	742				
s I52	-	-	-	-	-	-	55	.79	43	571	.63	357	124	.52	64	38	.47	18	-	-	-	-	-	-	-	-	-	-	788	.61	482				
J52	-	-	-	-	-	-	-	-	-	-	-	186	.52	96	301	.5	149	-	-	-	-	-	-	-	-	-	-	487	.5	245					
																														2328	.63	1469			
10425-10525																																			
I49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	.99	97	249	1.00	263	-	-	-	-	-	-	-	-	347	.64	360				
L49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	430	.8	344	430	.8	344						
																															777	.91	704		
10425 - STM I41/L41	804	.34	276	697	.62	432	107	.78	83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1608	.49	791					
SUB TOTAL																															4713	.63	2964		
FAMILY BLOCK BF I																																			
BF II																																			
O46	2011	.69	1382	2079	.63	1408	1362	.55	753	4829	.69	3355	2711	.54	1475	5339	.54	2866	2179	.46	992	3173	.59	1965	1236	.48	619	24979	.59	14715					
R52	169	.5	85	387	.61	236	14	.72	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	570	.58	331					
SUB TOTAL																																25549	.59	15046	
BOUNDARY ORE																																			
P57	1097	.71	774	1185	1.00	1228	106	.12	128	539	.88	457	469	.56	262	306	.6	184	-	-	567	.99	512	1477	.83	1221	5746	.83	4766						
"C1" LENS NORTH 10525-700																																			
M54	2178	.71	1553	-	-	-	-	-	-	12	.96	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2190	.71	1565					
L53E	-	-	-	2089	.63	1440	449	.67	299	498	.45	224	1092	.13	1233	1054	.9	951	797	1.09	870	-	-	-	-	-	-	5979	.84	5017					
L53W	-	-	-	1669	.46	746	2347	.74	1743	129	.98	127	-	-	-	519	.57	298	2372	.7	1665	-	-	-	-	-	-	7036	.65	4579					
K55	-	-	-	-	-	-	180	.4	72	-	-	-	-	-	-	-	-	-	-	17	.37	6	-	-	-	-	197	.4	78						
L52	-	-	-	-	-	-	1522	.8	1213	2188	.61	1340	2182	.83	1804	1275	.68	862	807	.66	529	1978	.62	1230	128	-	154	10075	.71	7132					
R55	-	-	-	-	-	-	-	-	-	-	-	-	100	.61	616	625	.32	198	47	.37	17	-	-	-	-	-	1678	.5	831						
L57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1151	.82	945	2372	.9	2103	3483	.88	3048						
SUB TOTAL																																30638	.73	22250	
"C2" LENS NORTH 525-700																																			
R60	2169	.91	1976	1265	.71	895	1085	.4	432	36	.66	24	833	.76	630	3286	.69	2283	1744	.76	1333	419	.99	413	99	.81	80	10936	.74	8066					
R59	-	-	-	-	-	-	-	-	-	918	1.22	1119	1259	.76	951	1334	.58	708	1217	.59	722	370	.68	253	-	-	5098	.8	3753						
K57 DEC																																			
SUB TOTAL																																	17783	.76	12446
"C" WEST																																			
H59	600	.26	158	1378	.48	663	1346	.73	1427	1263	.65	826	71	.41	29	-	-	-	-	-	111	.15	20	483	.4	193	5859	.57	3316						
R55	366	.13	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	366	.13	47						
K65	-	-	-	-	-	-	-	-	-	-	-	-	837	.33	347	-	-	-	-	-	18	.16	3	-	-	-	1055	.33	350						
SUB TOTAL																																	7280	.51	3713
"D" LENS																																			
DEC	465	.31	143	1379	.39	538	154	.25	38	1111	.24	271	4	.54	2	-	-	-	-	-	180	.74	133	-	-	-	3293	.34	1125						
P64	-	-	-	793	.38	300	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1576	.51	810	238	.5	120	2607	.47	1230						
SUB TOTAL																																	5900	.46	2355
"A" LENS																																			
H50	492	.79	390	442	.75	332	1136	.82	927	802	.54	431	-	-	-	131	.68	88	700	.92	643	1133	.82	933	638	.71	490	5474	.77	4234					

162065

Bottle Head Mining Reserves.

29-8-78.

000,00
1000 000,00
1000 000,00

KING ISLAND SCHEELITE Pty. Ltd.
UNDERGROUND TECHNICAL SERVICES
ORE RESOURCE AND MINING RESERVE TABLE - BOLD HEAD OREBODY
13-2-79

LENS	SUBDIVISION	PROVEN		PROBABLE		POSSIBLE	TOTAL PROVEN PLUS PROBABLE																			
		RESOURCE	RESERVE	RESOURCE	RESERVE	RESOURCE	RESOURCE	RESERVE																		
A LENS	A LENS NORTH	83,670	0.92	56,300	0.78	—	83,700	0.92	56,300	0.78																
	A LENS WEST	7,800	0.83	5,900	0.76	—	7,800	0.83	5,900	0.76																
	A LENS SOUTH	—	—	—	—	164,900	0.68	69,300	0.41	20,000																
	SUB-TOTAL:	91,500	0.91	62,200	0.78	164,900	0.68	69,300	0.41	20,000	256,400	0.76	131,500	0.58												
B LENS MAIN	10 750 - 10 800 N	—	—	—	—	9,010	1.74	6,800	1.39	—	9,000	1.74	6,800	1.39												
	10 625 - 10 750 N	50,180	0.83	36,500	0.76	—	—	—	—	—	50,200	0.83	36,500	0.76												
	10 525 - 10 625 N	35,040	0.64	20,900	0.60	—	—	—	—	—	35,000	0.64	20,900	0.60												
	10 425 - 10 525 N	58,100	1.06	34,000	0.90	—	—	—	—	—	58,100	1.06	34,000	0.90												
	10 325 - 10 425 N	38,850	1.33	26,100	0.80	15,230	1.21	8,500	0.73	—	54,100	1.30	34,600	0.78												
	10 200 - 10 325 N	—	—	—	—	—	—	—	—	20,000	—	—	—	—												
	SUB-TOTAL:	182,200	0.97	117,500	0.78	24,200	1.41	15,300	1.02	20,000	206,400	1.02	132,800	0.81												
B LENS WEST	—	—	—	—	—	—	—	—	—	6,200	0.71	—	—	55,500	0.82	27,800	0.66	61,700	0.81	27,800	0.66					
B LENS WEST LOWER	—	—	—	—	—	—	—	—	—	—	—	—	—	8,100	0.78	—	—	8,100	0.78	—						
B LENS EAST	—	—	—	—	—	—	—	—	—	—	—	—	—	1,900	1.17	—	—	15,000	1.07	—						
BOUNDARY ORE	—	—	—	—	—	—	—	—	—	—	—	—	—	6,300	0.97	5,200	0.82	14,700	1	10,700	0.85	—	21,000	0.99	15,900	0.84
FAULT BLOCK	B FAULT I	272,380	0.99	217,140	0.85	55,840	0.63	20,100	0.50	10,000	328,200	0.93	237,200	0.82												
	B FAULT II	206,840	0.75	184,580	0.64	47,900	0.75	14,370	0.60	5,000	254,700	0.75	199,000	0.64												
	SUB-TOTAL:	479,200	0.89	401,700	0.75	103,700	0.69	34,500	0.54	15,000	582,900	0.85	436,200	0.74												
C ₁ LENS	10 525 - 10 700 N	103,650	0.73	82,380	0.66	—	—	—	—	—	103,600	0.73	82,400	0.66												
	10 200 - 10 525 N	126,170	0.94	72,920	0.79	19,050	1.20	9,600	0.96	40,000	145,200	0.97	82,500	0.81												
	C ₁ WEST	—	—	—	—	60,860	0.86	25,200	0.73	—	60,900	0.86	25,200	0.73												
	SUB-TOTAL:	229,800	0.84	155,300	0.72	79,900	0.94	34,800	0.79	40,000	309,700	0.87	190,100	0.73												
C ₂ LENS	10 525 - 10 700 N	136,980	1.13	99,340	0.81	12,290	0.98	7,000	0.69	—	149,300	1.12	106,300	0.80												
	10 200 - 10 525 N	65,620	1.06	36,200	0.85	73,520	0.72	38,800	0.58	40,000	139,100	0.88	75,000	0.71												
	C ₂ WEST	—	—	—	—	33,510	0.86	13,870	0.74	—	33,500	0.86	13,900	0.74												
	SUB-TOTAL:	202,600	1.11	135,500	0.82	119,300	0.79	59,700	0.63	40,000	321,900	0.99	195,200	0.76												
D LENS	—	—	—	—	—	—	—	—	—	—	—	—	—	45,200	0.95	35,300	0.67	—	45,200	0.95	35,300	0.67				
BOLD HEAD TOTAL		1,210,900	0.93	877,400	0.76	617,400	0.81	287,400	0.62	135,000	1,828,300	0.89	1,164,800	0.73												

METHOD OF GRADE CALCULATION:

Polygonal method of weighted arithmetic means from plans - B Lens Main and B Lens West.
 Modified polygonal method of weighted arithmetic means from sections for the remainder.

METHOD OF TONNES CALCULATION:

Truncated cone formula using 1:250 sections for BF₁, BF₂, B Lens East and Boundary Ore.
 Truncated cone formula using 1:500 sections for the remainder.

162066

BOLD HEAD MINING RESERVES

29-8-78

	A LENS		B LENS		C LENS		D LENS		TOTALS	
PROVEN	64 700	0.78	549 500	0.79	345 000	0.76			959 300	0.78
			MAIN P70 29 000 0.75 625 - 675 10 000 0.80 525 - 625 24 300 0.56 425 - 525 34 800 0.90 325 - 425 26 200 0.80 BOUNDARY 5 200 0.82 BF 1 350 - 525 209 200 0.90 525 - 625 26 600 0.90 BF 11 350 - 525 179 500 0.67 525 - 625 4 700 0.67		C ₁ MAIN 525 - 700 97 100 0.63 200 - 525 90 000 0.80 C ₁₁ MAIN 525 - 700 121 800 0.81 200 - 525 36 200 0.85					
PROBABLE	69 300	0.41	80 700	0.81	97 100	0.72	30 700	0.86	277 800	0.68
	SOUTH	69 800 0.41	MAIN P70 6 800 1.39 325 - 425 8 500 0.73 WEST 27 800 0.66 BOUNDARY 11 000 0.85 B.F. 1 6 900 0.93 B.F. 11 19 700 0.78		C ₁ MAIN 200 - 525 10 000 0.96 C ₁ WEST 25 200 0.73 C ₁₁ MAIN 525 - 700 8 600 0.50 0.69 200 - 525 38 200 0.87 0.50 C ₁₁ WEST 15 100 0.74					
TOTALS	134 000	0.59	630 200	0.79	442 200	0.75	30 700	0.86	1 237 100	0.76

GEOPEKO LIMITED
KING ISLAND BASE
ORE RESOURCE TABLE BOLD HEAD OREBODY

LENS	SUBDIVISION	PROVEN ORE TONNES	GRADE %WO ₃	PROBABLE ORE TONNES	GRADE %WO ₃	POSSIBLE ORE	TOTAL PROVEN + PROBABLE ORE TONNES	GRADE %WO ₃
A LENS	A LENS NORTH	82670	0.92				82670	0.92
	A LENS WEST	7800	0.83				7800	0.83
	A LENS SOUTH			164900	0.68	20,000	164900	0.68
TOTAL A LENS		91500	0.91	164900	0.68	20,000	256400	0.76
B LENS MAIN	10 750 - 10 800 N			9010	1.74		9010	1.74
	10 625 - 10 750 N	50,180	0.83				50,180	0.83
	10 525 - 10 625 N	35,040	0.64				35,040	0.64
	10 425 - 10 525 N	58,100	1.06				58,100	1.06
	10 400 - 10 425 N	38,950	1.33	15,230	1.21		54,180	1.30
	10 350 - 10 400 N					20,000		
TOTAL B LENS MAIN		182,200	0.77	24,200	1.41	20,000	206,400	1.02
B LENS WEST		6200	0.71	55,500	0.82		61,700	0.81
B LENS WEST LOWER				8,100	0.78		8,100	0.78
B LENS EAST		13,100	1.06	1,900	1.17		15,000	1.07
BOUNDARY ORE		6,200	0.97	14,700	1		21,000	0.99
FAULT BLOCK	BF ₁	272,330	0.99	55,840	0.63	10,000	328,200	0.93
	BF ₂	206,840	0.75	47,900	0.75	5,000	254,700	0.73
TOTAL FAULT BLOCK		479,200	0.89	103,700	0.69	15,000	582,900	0.85
C ₁ LENS	10 525 - 10 700 N	103,650	0.73				103,650	0.73
	10 350 - 10 525 N	126,170	0.94	19,050	1.20	40,000	145,200	0.97
	C ₁ WEST			60,860	0.86		60,860	0.86
TOTAL C₁ LENS		229,800	0.84	79,900	0.94	40,000	309,700	0.87
C ₂ LENS	10 525 - 10 700 N	136,980	1.13	12,290	0.98		149,300	1.12
	10 350 - 10 525 N	65,620	1.06	73,520	0.72	40,000	139,100	0.83
	C ₂ WEST			33,510	0.86		33,500	0.86
TOTAL C₂ LENS		202,600	1.11	119,300	0.79	40,000	321,900	0.99
D LENS				45,200	0.95		45,200	0.95
TOTAL BOLD HEAD		1210900	0.93	617,400	0.81	135,000	1,828,300	0.89

METHOD OF GRADE CALCULATION:
Polygonal method of weighted arithmetic means from plans - B Lens Main and B Lens West.
Modified polygonal method of weighted arithmetic means from sections for the remainder.

METHOD OF TONNES CALCULATION:
Truncated cone formula using 1:250 sections for BF₁, BF₂, B Lens East and Boundary Ore.
Truncated cone formula using 1:500 sections for the remainder.

1620 68

Feb 79
Date: 12 FEB 79
Compiled by: J.M.C.
Drawn by: R.F.
Checked by: M.C.R.

PROBABLE

prepared for Oct 78 meeting

AREA	MINING METHOD	RESOURCE @ 29.8.78	%WO ₃	RESERVE @ 29.8.78	%WO ₃	RESERVE MTU ¹	CALCULATION REMARKS	%EXT MRIR	FACTORS			OVERALL FACTOR	VAR. IN APR 78
									% M'BLE	% REC	DIL		
A LENS	SOUTH	SLOT	164900	0.68	69300	0.41	28300		50	60	1.4	4200	NO
B LENS	750-800		9070	1.74	6800	1.39	9460	Dilution inc. on strip fig. otherwise as before	70	90	1.20	7570	YES
	325-425	SLOT R/P	15230	1.21	8500	0.73	6200	Empowered to proven resource - extra 10% deducted for m'ble.	50	80	1.4	5600	YES
	WEST	SLOT	55500	0.82	27800	0.66	18200	As Apr. 78 - No Reserve in lower pit			1.2	0.500	NO
	EAST		1900	1.17	-	-	-	As for Proven.					
BOUNDARY		CAND C/P	15300	1.0	11000	0.85	9350	257 stage. Proven figs reduced by 10% m'ble.	70	90	1.15	7245	YES
B FAULT BLOCK	BFI	MECH C/P	9890	1.03	6900	0.93	6420	One south of existing ore. blocking - 10% red. on proven m'ble & rec.	75	85	1.1	7013	YES
	BFI		28110	0.87	19700	0.78	15420		75	85	1.1	7013	YES
C LENS	CI		19050	1.20	10000	0.96	9600	See notes on CI			1.2	5245	YES
	CI WEST		60860	0.86	25200	0.73	18420	As before (in April)			1.15	4136	NO
	CI II		12290	0.72	8600	0.50	4330	Proven 50% fig. reduced to 70% with the 30% dilution to gr. applied.			30%		YES
	CI II WEST		73520	0.98	38200	0.50	26220	See notes			30%	5200	YES
	CI WEST		36570	0.87	15106	0.74	11180	As for CI west this time			15%	4136	YES
D LENS			46500	0.95	30700	0.86	26240	As for April 78.	80	75	1.1	6600	NO
			548630 (B.W. Lower pit inc.)	0.84	277800	0.68	189340		50%		19%	5064	
PROVEN + PROBABLE			1,822,700	0.91	1,237,100	0.76	938220		68%		16%		
												162070	

BOLD HEAD MINING, RESERVES

@ 3 10.78 (w. for OCT '78 Meeting)

PROVEN

AREA	MINING METHOD	RESOURCE @ 29.8.78	%W ₃	RESERVE @ 29.8.78	%W ₃	RESERVE M.T.U.	CALCULATION REMARKS	% EXT. MR:R	FACTORS			OVERALL FACTOR	VAR. ON APR. FIG.
									% M'BLE	% REC.	% DIL.		
A LENS: NORTH	CAVOCUF	87070	0.92	58500	0.78	45630	As April		85	90	1.15	.6728	No
WEST	"	8160	0.84	6200	0.76	4710	As April		- 60 -		1.1	.7591	No
B LENS: 675-750	CAVOCUF	36600	0.83	29000	0.75	21750			80	90	1.1	.7920	No
625-675	PILL. REC.	16740	0.84	10,000	0.80	8000			60	95	1.05	.5985	No
525-625	SLOT + PILL STRIP.	36250	0.64	24300	0.56	13600					1.125	.6715	No
425-525	SLOT: R/P. PILL. REC.	58400	1.06	34800	0.90	31350					1.15	.5962	No
325-425	SLOT: R/P.	38940	1.33	26200	0.80	20960	Space drill hole info: poor ground to date excessive dilution expected. see notes on 98/79 revised budget schedule.		60	80	1.40	.6720	YES
WEST	SLOT	6200	0.71	-	-	-	Written off.						No
EAST		13100	1.06	-	-	-	Written off.: Around old NS4 slope						
BOUNDARY:	CAVOCUF	6300	0.97	5200	0.82	4280	Grade diluted to 15% - 77/78 figures show 18%.		80	90	1.15	.8280	YES
B FAULT BLOCK: BF I (350-525)	MECH CUF.	235500	1.00	209200	0.90	188270	As April		85	95	1.1	.8883	No
(525-625)		43060	1.00	26600	0.90	23900	As April.		75	75	1.1	.6188	No
BF II (350-525)	MECH CUF	202050	0.75	179500	0.67	120270	As April		85	95	1.1	.8883	No
525-625	?	7630	0.75	4700	0.67	3170	"		75	75	1.1	.6188	No
		488240	0.89	420,090	0.80	335,610							
C LENS C I (525-700)	TRANS. R/P (SLOT?)	116910	0.74	97100	0.63	61170	Detailed assessment not made in time. Grade reduced by 15% from experience to date in CI.		85	85	1.15	.8308	YES
(200-525)		135150	0.94	90,000	0.80	72000	See notes on CI Lens.					.6641	YES
C II (525-700)	R/P 600-650 525-600-CAVOCUF SLOTS OR DRIFTING	152290	1.15	121800	0.81	99050	"				30%		
200-525		65620	1.06	36200	0.85	30770	See notes in C II Lens.				20%	.5515	YES
TOTALS.		1,265,910 (1,265,900)	0.94	959,300	0.78	748,880					17%	.7578	

PEKO - WALLSEND OPERATIONS LIMITED
GEOPEKO DIVISION KING ISLAND
ORE RESOURCE TABLE BOLD HEAD OREBODY

LENS	SUBDIVISION	PROVEN ORE TONNES	GRADE %WO ₃	PROBABLE ORE TONNES	GRADE %WO ₃	POSSIBLE ORE	TOTAL PROVEN + PROBABLE ORE TONNES	GRADE %WO ₃
A LENS	A LENS NORTH	87,010	0.92				87,000	0.92
	A LENS WEST	8,160	0.84				8,200	0.84
	A LENS SOUTH			164,900	0.68	20,000	164,900	0.68
TOTAL A LENS		95,200	0.91	164,900	0.68	20,000	260,100	0.76
B LENS MAIN	10 750 - 10 800 N			9,010	1.74		9,000	1.74
	10 625 - 10 750 N	53,340	0.84				53,300	0.84
	10 525 - 10 625 N	36,250	0.64				36,300	0.64
	10 425 - 10 525 N	58,400	1.06				58,400	1.06
	10 325 - 10 425 N	38,940	1.33	15,230	1.21		54,200	1.30
	10 200 - 10 325 N					20,000		
TOTAL B LENS MAIN		186,900	0.97	24,300	1.41	20,000	211,200	1.02
B LENS WEST		6,200	0.71	55,500	0.82		61,700	0.81
B LENS WEST LOWER				8,100	0.78		8,100	0.78
B LENS EAST		13,100	1.06	1,900	1.17		15,000	1.07
BOUNDARY ORE		6,300	0.97	15,300	1		21,600	0.99
FAULT BLOCK	BF ₁	278,530	1.00	9,890	1.03	3,000	288,400	1.00
	BF ₂	209,690	0.75	28,110	0.87	9,000	237,800	0.76
TOTAL FAULT BLOCK		488,200	0.89	38,000	0.91	12,000	526,200	0.89
C ₁ LENS	10 525 - 10 700 N	116,910	0.74				116,900	0.74
	10 200 - 10 525 N	135,150	0.94	19,050	1.20	40,000	154,200	0.97
	C ₁ WEST			60,860	0.86		60,900	0.86
TOTAL C₁ LENS		252,100	0.85	79,900	0.94	40,000	332,000	0.87
C ₂ LENS	10 525 - 10 700 N	152,290	1.15	12,290	0.72		139,100	0.88
	10 200 - 10 525 N	65,620	1.06	73,520	0.98	40,000	164,600	1.14
	C ₂ WEST			36,570	0.87		36,600	0.87
TOTAL C₂ LENS		217,900	1.12	122,400	0.79	40,000	340,300	1.00
D LENS				46,500	0.95		46,500	0.95
TOTAL BOLD HEAD		1,265,900	0.94	556,800	0.84	132,000	1,822,700	0.91

METHOD OF GRADE CALCULATION:

Polygonal method of weighted arithmetic means from plans - B Lens Main and B Lens West.
 Modified polygonal method of weighted arithmetic means from sections for the remainder.

METHOD OF TONNES CALCULATION:

Truncated cone formula using 1:250 sections for BF₁, BF₂, B Lens East and Boundary Ore.
 Truncated cone formula using 1:500 sections for the remainder.

Date: 29 AUG 78
 Compiled by: J.M.C.
 Drawn by: R.F.
 Checked by: M.C.R.

162071

BOLD HEAD MINING RESERVES

29.8.78

	A LENS	B LENS	C LENS	D LENS	TOTALS
PROVEN	50,240 64,700 0.78	43,550 549,500 0.79	262,900 345,100 0.76		748,800 959,300 0.78
		MAIN: PFO: 29,000 0.75 625-675: 10,000 0.80 525-625: 24,200 0.56 425-525: 34,800 0.90 325-425: 26,200 0.80 BOUNDARY: 5,200 0.82 B.F.I: 350-525: 209,200 0.90 525-625: 26,600 0.90 B.F.II: 350-525: 179,500 0.67 525-625: 4,700 0.67	C, MAIN: 525-700: 97,100 0.63 200-525: 90,000 0.80 C, II MAIN: 525-700: 121,800 0.81 200-525: 36,200 0.85		
PROBABLE	28,300 69,300 0.41	65,050 80,700 0.81	59,750 97,100 0.72	26,240 30,700 0.86	159,340 277,800 0.68
	SOUTH: 69,300 0.41	MAIN: PFO: 6,800 1.39 325-425: 8,500 0.73 WEST: 27,800 0.66 BOUNDARY: 11,000 0.85 B.F.I: 6,900 0.93 B.F.II: 19,700 0.78	C, MAIN: 200-525: 10,000 0.96 C, WEST: 25,200 0.93 C, II MAIN: 525-700: 8,600 0.50 200-525: 38,200 0.67 C, II WEST: 15,100 0.74		
TOTALS	78,640 134,000 0.59	506,600 630,200 0.79	332,700 442,200 0.75		1,237,100 0.76

DATE: OCT 5th 1978
 PLACED: DJB
 DRAWN:

162072

162073

	PROVEN		change		PROFABLE		Change		POSSIBLE	change 1500T	TOTAL PROVEN + PROFABLE		change	
	Tonnes	% W ₃	1500T	% W ₃	Tonnes	% W ₃	1500T	% W ₃			Tonnes	% W ₃	1500T	% W ₃
A LENS	95200	0.91	-1.6		164,900	0.68		NIL	20,000	NIL	260,100	0.76	-1.6	-0.01
E BRIS MAIN	36,900	0.97	-0.9	+0.6	24,300	1.41	-13.9	-0.01	20,500	+10	211,200	1.02	-14.8	+0.03
WEST	6,200	0.71		NIL	55,500	0.82		NIL	-	-5	61,700	0.81		NIL
WESTER	NIL			NIL	8,100	0.78		NIL	-	NIL	8,100	0.78		NIL
EAST	13,100	1.06	-20.1	-0.05	1,900	1.17	-7.5		-	NIL	15,000	1.07	-27.6	-0.03
FAULT BLOCK	488,200	0.89	+33.4		38,000	0.91	-70.5	+0.01	12,000	-45.0	526,200	0.89	-37.1	
BOUNDARY DEC	6,300	0.97	+2.7	+0.05	15,300	1	-5.4		-	NIL	21,600	0.99	-2.7	
C ₁ LENS	252,100	0.85	+15.7	+0.02	79,900	0.94	-60.2	+0.01	40,000	+25.0	332,000	0.87	-44.5	
C ₂ LENS	217,900	1.12	+56.5	-0.03	122,400	0.79	-3.5	-0.14	6,000	+50.0	340,300	1.00	+52.7	-0.01
D LENS	NIL			NIL	46,500	0.95		NIL	-		46,500	0.95		NIL
	1,265,900	0.94	+85.7	+0.02	556,800	0.84			152,000	+37.0	1,822,700	0.91	-75.6	

1.2.

UNDERGROUND MINING RESERVES AT 29.8.78

(prepared by Technical Services Department - K.I.S.)

OREBODY	ORE RESOURCE				MINING RESERVE				Change 14.2.78 TO 29.8.78 Tonnes
	14.2.78		29.8.78		14.2.78		29.8.78		
	Tonnes	%WO ₃	Tonnes	%WO ₃	Tonnes	%WO ₃	Tonnes	%WO ₃	Tonnes
<u>V^o / OREBODY</u>									
PREBLE ORE	762 200	0.60	762 200	0.60	82,000	0.56	32,000	0.56	NIL
<u>DOLPHIN</u>									
PROVEN ORE	3,985,000	1.11	4,258,500	1.15	3,045,800	1.00	3,289,500	1.02	
PROBABLE ORE	2,026,000	1.04	1,217,000	0.92	1,366,900	0.97	791,300	0.88	
RESIDUAL PILLARS	-		-		191,000	0.84	191,000	0.85	
SUB-TOTAL	6 011 000	1.09	5 475 500	1.10	4 603 700	0.98	4 270 800	0.99	- 332 900
<u>BOLD-HEAD</u>									
PROVEN ORE	1,180,200	0.92	1,265,900	0.94	904,000	0.84	959,300	0.78	
PROBABLE ORE	718,100	0.89	556,800	0.84	355,000	0.74	277,200	0.68	
SUB-TOTAL	1,898,300	0.91	1,822,700	0.91	1,259,000	0.81	1,237,100	0.76	- 21,900
TOTAL	3 671 500	1.01	3 060 400	1.01	5 944 700	0.94	5 589 900	0.93	- 354 800
MT.U.F.	8 736 800		8 141 000		5 585 300		5 201 900		

162074