

ASERFOYLE TIN N. L. - DILUTED MINEABLE ORE RESERVE STATEMENT - 1ST OCTOBER, 1976

LEVEL	INDICATED GEOLOGICAL RESERVES (CATEGORIES ABCD)			INFERRED GEOLOGICAL RESERVES (CATEGORY E)		NON MINEABLE GEOLOGICAL INDICATED RESERVES (QUARTZ TONNES) C & D			UNDILUTED INDICATED MINEABLE RESERVE A & B			PLANNED WASTE DILUTION	INDICATED DILUTED MINEABLE RESERVES A & B		
	Quartz Tonnes	Quartz Sn	Grade % WO ₃	Ore Tonnes	Ore Grade %	Sub. Ore	Planned Loss	Extr. Total	Quartz Tonnes	Quartz Sn	Grade % WO ₃	Tonnes	Ore Tonnes	Ore Sn	Grade % WO ₃
1	3770	2.3	0.7	2250	0.5	1400	550	1950	1820	2.3	1.0	4380	6200	0.7	0.3
2	5580	2.3	0.7	4350	0.7	1700	300	2000	3580	2.2	0.9	11020	14600	0.5	0.2
3	2620	2.9	0.4	4750	0.7	1110	600	1710	910	3.6	0.6	4540	5450	0.6	0.1
4	6190	3.0	0.4	5000	0.7	1240	1390	2630	3560	2.9	0.5	12090	15650	0.7	0.1
5	9040	2.4	0.5	7700	0.5	4390	1250	5640	3400	3.1	0.5	14400	17800	0.6	0.1
6	8140	2.1	0.7	14000	0.5	3980	790	4770	3370	2.4	0.9	10280	13650	0.6	0.2
7	7190	2.0	0.5	1150	0.4	2910	3590	6500	690	3.0	0.5	2610	3300	0.6	0.1
8	8350	1.5	0.9	6400	0.6	3910	3030	6940	1410	2.5	1.2	5640	7050	0.5	0.2
9	6720	1.3	1.0	6000	0.7	1010	3910	4920	1800	0.9	1.4	2900	4700	0.4	0.5
10	1480	1.2	0.7	300	0.7	1350	70	1420	60	3.7	-	240	300	0.7	-
11	600	1.1	0.8	-	-	50	490	540	60	3.2	-	240	300	0.6	-
12	1150	2.0	0.6	-	-	-	1150	1150	-	-	-	-	-	-	-
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60830 2.1 0.66 51900 0.6 23050 17120 40170 20660 2.51 0.8 68340 89000 0.6 0.2															

0.71975 98650 .6 - - /

$P_{10} = 1543 \cdot 58 = 124$
 $\times .85 \text{ Sn} = .58 \cdot 124 = 72.12$
 $\times \frac{59 \text{ Sn}}{100 \text{ WO}_3} = 26.91 + 20 = 48.91$
 30.09

INDICATED GEOLOGICAL RESERVE (QUARTZ) - NON MINEABLE RESERVE (QTZ) = UNDILUTED MINEABLE RESERVE (QTZ) + DILUTION = INDICATED DILUTED MINEABLE RESERVE
 60830 - 40170 = 20660 + 68340 = 89000

Aberfoyle Comb P_{10}
 $\frac{52966}{1893} = 27.98$ $P_{10} = 27.98$
 Mm $P_{10} = 1.79$
 Mm $P_{10} = 10.28$
 Pm $P_{10} = 3.11$
 C.M.S $P_{10} = 5.32$
 O.H $P_{10} = 6.79$

 55.26

ADRECKLE TIN N. L. - ORE RESERVE RECONCILIATION 1ST OCTOBER, 1975 - 30TH SEPTEMBER, 1976

LEVEL	INDICATED DILUTED MINEABLE RESERVE AS AT 1.10.75	EXTRACTION	NON RECOVERIES RESERVES <i>shaft follow me across</i>	ADDITIONS TO RESERVES <i>steps retention</i>	INDICATED DILUTED MINEABLE RESERVES AS AT 30.9.76
1	800	1240	-	6640 (200)	6200
2	5750	1590	-	10440	14600
3	12000	2340	4210	- (1100) ✓	5450 ✓
4	11650	2530	-	6530	15650
5	28150	7690	2660	- (5350)	17800
6	16100	2650	-	200 (3650)	13650
7	3600	1730	1650	3080 (2650)	3300
8	13150	1150	4950	- (2400)	7050
9	6050	2470	-	320	4700
10	300	-	-	- (300)	300
11	300	-	-	- (300)	300
12	-	-	-	-	-
	98650	23390	13470	27210	89000 ✓

A+B
 Year to A/N/75 28067
 ✓ - N/W/76 22970
 1-10 18870
 11 2200
 12 1900
22,970

P.M.G. to reserve total £ 70,000 3 yrs

Comment: S/S.C. shows Adreackle would have to go to 2 shafts to increase tonnage (require vent revamp) but this is doubtful at a grade of .6 + .2. Therefore limit reserves to possible life for S to work. Jan 3 1976

LEVEL	INDICATED DILUTED MINEABLE RESERVE AS AT 1.10.75	EXTRACTION	NON RECOVERIES RESERVES	ADDITIONS TO RESERVES	INDICATED DILUTED MINEABLE RESERVES AS AT 30.9.76
1	800	1240	-	+ 6640 - 800	5400
2	5750	1590	-	+ 10440	14600
3	12000	2340	3110	- 1100	5450
4	11650	2530	600	+ 6530	15050
5	28150	7690	2660	- 5350	12450
6	16100	2650	-	+ 200 - 3650	10000
7	3600	1730	-	+ 3080 - 2650	2300
8	13150	1150	4950	- 6400	650
9	6850	2470	-	+ 320	4700
10	300	-	-	- 300	-
11	300	-	-	- 300	-
12	-	-	-	-	-
	98650	23390	11320	6660	70600

ABERFOYLE TIN N. L. - DILUTED MINEABLE ORE RESERVE STATEMENT - 1ST OCTOBER, 1976

LEVEL	INDICATED GEOLOGICAL RESERVES (CATEGORIES A B C D)			INFERRED GEOLOGICAL RESERVES (CATEGORY E)		NON MINEABLE GEOLOGICAL INDICATED RESERVES (QUARTZ TONNES) C + D		UNDILUTED INDICATED MINEABLE RESERVE A + B				PLANNED WASTE DILUTION	INDICATED DILUTED MINEABLE RESERVES A + B		
	Quartz Tonnes	Quartz Sn	Grade % WO ₃	Ore Tonnes	Ore Grade %	Sub. Ore	Planned Extr. Loss	Sub Total	Quartz Tonnes	Quartz Sn	Grade % WO ₃	Tonnes	Ore Tonnes	Ore Sn	Grade % WO ₃
1	3770	2.3	0.7	2250	0.5	1520	550	2070	1700	2.2	1.0	3700	5400	0.7	0.3
2	5580	2.3	0.7	4350	0.7	1700	300	2000	3580	2.2	0.9	11020	14600	0.5	0.2
3	2620	2.9	0.4	4750	0.7	1110	600	1710	910	3.6	0.6	4540	5450	0.6	0.1
4	6190	3.0	0.4	5000	0.7	1380	1390	2770	3420	3.0	0.5	11630	15050	0.7	0.1
5	9040	2.4	0.5	7700	0.5	5200	1250	6450	2590	2.9	0.6	9860	12450	0.6	0.1
6	8140	2.1	0.7	14000	0.5	4690	790	5480	2660	2.3	0.8	7340	10000	0.6	0.3
7	7190	2.0	0.5	1150	0.4	3080	3590	6670	520	3.0	0.7	1780	2300	0.7	0.2
8	8350	1.5	0.9	6400	0.6	5210	3030	8240	110	2.4	1.2	540	650	0.4	0.2
9	6720	1.3	1.0	6000	0.7	1010	3910	4920	1800	0.9	1.4	2900	4700	0.4	0.5
10	1480	1.2	0.7	300	0.7	1410	70	1480	-	-	-	-	-	-	-
11	600	1.1	0.8	-	-	110	490	600	-	-	-	-	-	-	-
12	1150	2.0	0.6	-	-	-	1150	1150	-	-	-	-	-	-	-
TOTAL	60830	2.1	0.66	51900	0.6	26420	17120	43540	17290	2.4	0.8	53310	70600	0.6	0.2

INDICATED GEOLOGICAL RESERVE (QUARTZ) - NON MINEABLE RESERVE (QTZ) = UNDILUTED MINEABLE RESERVE (QTZ) + DILUTION = INDICATED DILUTED MINEABLE RES.
 60830 - 43540 = 17290 + 53310 = 70600

CATEGORIES

- CATEGORY A - Ore which is economically accessible at present costs.
- CATEGORY B - Ore which is economically accessible at moderately increased costs (sandfill, development and rehabilitation).
- CATEGORY C - Ore which is of marginal profitability at current prices or accessible with high costs (development or rehabilitation).
- CATEGORY D - Ore blocks considered to be uneconomical at present prices due to low grade or excessive costs.
- CATEGORY E - Inferred ore.

ABERFOYLE TIN N. L. - ORE RESERVE RECONCILIATION

1ST OCTOBER, 1976

LEVEL	INDICATED DILUTED MINEABLE RESERVE AS AT 1.10.75	EXTRACTION	NON RECOVERIES RESERVES	ADDITIONS TO RESERVES	INDICATED DILUTED MINEABLE RESERVES AS AT 30.9.76
1	800	1240	-	+ 6640 - 800	5400
2	5750	1590	-	+ 10440	14600
3	12000	2340	3110	- 1100	5450
4	11650	2530	600	+ 6530	15050
5	28150	7690	2660	- 5350	12450
6	16100	2650	-	+ 200 - 3650	10000
7	3600	1730	-	+ 3080 - 2650	2300
8	13150	1150	4950	- 6400	650
9	6850	2470	-	+ 320	4700
10	300	-	-	- 300	-
11	300	-	-	- 300	-
12	-	-	-	-	-
	98650	23390	11320	6660	70600