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STOREYS CREEK MINE ORE RESERVE ESTIMATE AS AT 28.11.1973.

For the first time the ore reserve estimate this year is reported in tonnes. Again this year quartz tonnage was calculated using the actual vein width in each block. A dilution factor based on production results since the commencement of resuing operations and extensive mullock sorting was used. For the 17 months ending November 1973 the quartz output of ore extracted has averaged 73%. To allow for this dilution the ore reserve is calculated as quartz tonnes multiplied by the factor of 100/73 (see Table 1). The quartz tonnes plus dilution is defined <sup>as</sup> Ore Tonnes in Tables 2 and 3.

It should be noted that the dilution factor assumed for last year's ore reserve was 100/78. Actual results this year show that this assumption was too ambitious.

For comparison purposes the ore reserve for the year ending 1st July 1972 is converted to tonnes while still retaining the dilution factor of 100/78.

The ore reserve estimate has decreased from 184,600 quartz tonnes to 178,500 quartz tonnes this year. However the estimate increased from 236,700 ore tonnes last year to 244,500 ore tonnes this year. This increase in ore tonnes is entirely due to the more practical revised dilution factor of 100/73.

DEFINITIONS

Indicated Ore (Categories A, B, C and D.)

Indicated ore is ore considered to be of economic grade (based on visual grade estimations) that has been outlined by -

- (i) a development or stope opening on three or more sides.
- (ii) making a projection beyond an isolated development or stope opening 30' along the strike and 20' up and down the dip of a vein. One exception to this is ore below 11 Level on Footwall Vein (i.e. 12 Level blocks) which has been projected to diamond drill hole intersections. This ore has been included in Category C and amounts to 15,400 tonnes.

Inferred Ore (Category E)

Inferred ore is ore outlined by making a further projection of 30' along the strike of, and 20' up and down the dip of, a vein beyond indicated ore.

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 (shaft sinking, sandfill, development and rehabilitation).
- Category D - Ore blocks considered to be uneconomical at present prices due to low grade or excessive costs.
- Category E - Inferred Ore.

ORE RESERVE PLANS AND CALCULATIONS.

The ore reserve plans used in 1972 were updated and the methods used in calculations and drafting were as follows :-

- (a) A plan of each vein at a scale of 1" = 40' was drawn showing areas previously mined and areas of indicated and inferred ore.
- (b) Tonnages were calculated using a density factor of 13.6 cu.ft. per ton and a width equal to vein width. The tonnage produced from this was multiplied by a factor of 1.016 to give quartz tonnes. A dilution factor of 100/73 was then applied to the total quartz tonnes to give ore tonnes.

SUMMARY OF MAJOR REASONS FOR MOVEMENT IN ORE RESERVE TONNAGE

To be completed.

Table 1.

Ore Reserve Estimate in Quartz Tonnes as at 28/11/1973

LEVEL	A	B	C	D	E	QUARTZ TONNES TOTAL	QUARTZ TONNES X $\frac{100}{73}$	DILUTION TONNES
Adits	1700	1050	950	400	200	4300	5900	1600
1	4750	1050	-	-	900	6700	9200	2500
1A	1300	600	1300	-	-	3200	4400	1200
2	2750	3100	2150	-	400	8400	11500	3100
3	5800	1850	1100	550	1850	11150	15300	4150
4	600	950	1250	800	200	3800	5200	1400
5	-	-	1650	150	-	1800	2450	650
6	1500	6000	3000	-	1000	11500	15750	4250
6A	-	-	500	-	-	500	700	200
7	7700	400	1600	2100	900	12700	17400	4700
7A	850	-	2300	-	-	3150	4300	1150
7B	850	1050	650	-	-	2550	3500	950
8	7500	1250	2200	150	1350	12450	17050	4600
8A	2350	-	-	-	-	2350	3200	850
9	20200	1300	1550	-	1200	24250	33200	8950
10A	2600	-	-	-	-	2600	3550	950
11	19850	12600	4800	-	6150	43400	59450	16050
12	-	-	17950	-	5750	23700	32450	8750
TOTALS	80300	31200	42950	4150	19900	178500		
QUARTZ TONNES X $\frac{100}{73}$	110000	42750	58800	5700	27250		244500	
DILUTION	29700	11550	15850	1550	7350			66000

Table 2

Level by Level Comparison of the Categorized Ore Reserve in Ore Tonnes July 1972 - November 1973

Category Level	A		B		C		D		E		TOTALS	
	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973	1972	1973
Adits	3850	2350	2050	1450	400	1300	-	550	250	250	6550	5900
1	7950	6500	1050	1450	-	-	-	-	1150	1250	10150	9200
1A	800	1800	1500	800	900	1800	-	-	-	-	3200	4400
2	2750	3750	3950	4250	2750	2950	-	-	-	550	9450	11500
3	7300	7950	3000	2550	200	1500	-	750	2100	2550	12600	15300
4	750	850	2950	1300	1050	1700	-	1100	250	250	5000	5200
5	-	-	-	-	2300	2250	-	200	-	-	2300	2450
6	3500	2050	6900	8200	3650	4100	-	-	1500	1400	15550	15750
6A	-	-	-	-	650	700	-	-	-	-	650	700
7	8100	10550	4750	550	1850	2200	-	2850	700	1250	15400	17400
7A	1050	1150	-	-	2850	3150	-	-	-	-	3900	4300
7B	1100	1150	1350	1450	850	900	-	-	-	-	3300	3500
8	5250	10300	5150	1700	4800	3000	-	200	1700	1850	16900	17050
8A	-	-	-	-	3000	3200	-	-	-	-	3000	3200
9	29100	27650	2950	1800	-	2100	-	-	2850	1650	34900	33200
10A	3250	3550	-	-	-	-	-	-	-	-	3250	3550
11	26650	27200	21850	17250	4550	6600	-	-	9300	8400	62350	59450
12	-	-	-	-	21750	24600	-	-	6500	7850	28250	32450
TOTALS	101400	106800	57450	42750	51550	62050	-	5650	26300	27250	236700	244500

Table 3

Level by Level Comparison of Ore Reserve in Ore Tonnes as at  
1/7/1972 and 28/11/1973

LEVEL	1.7.1972 TONNES	28.11.1973 TONNES	DIFFERENCE	REMARKS
Adits	6550	5900	- 650	Due to tonnage written off as uneconomical.
1	10150	9200	- 950	Due to extraction.
1A	3200	4400	+1200	Due to development and revised dilution factor.
2	9450	11500	+2050	As above.
3	12600	15300	+2700	As above.
4	5000	5200	+ 200	Due to revised dilution factor.
5	2300	2450	+ 150	As above.
6	15550	15750	+ 200	As above.
6A	650	700	+ 50	As above.
7	15400	17400	+2000	Due to development and revised dilution factor.
7A	3900	4300	+ 400	As above.
7B	3300	3500	+ 200	Due to revised dilution factor.
8	16900	17050	+ 150	As above.
8A	3000	3200	+ 200	As above.
9	34900	33200	-1700	Due to extraction.
10A	3250	3550	+ 300	Due to development and revised dilution factor.
11	62350	59450	-2900	Due to extraction. Development and revised dilution factor has to a large extent kept pace with extraction.
12	28250	32450	+4200	Due to development on 11 Level and revised dilution factor.
TOTAL	236700	244500	+7800	

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ABERFOYLE LIMITED - STOREYS CREEK MINE - ORE RESERVES AS AT 28TH NOVEMBER 1973.

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNE	INDICATED ORE TONNES (FACTOR OF (100/73))	DILUTION	QUARTZ TONNES	INFERRED ORE TONNES (FACTOR OF (100/73))	DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
3 Adit	3AD-21-1W	SC-OR-08	250	350	100				A	0.90	Needs sandfill. Mainly WO <sub>3</sub> in 25% Sn.
2 Adit	2AD-23-1E	07	150	200	50				A	0.95	Resue, ground bad. " " " " "
	2AD-24-1E	07	150	200	50				C	0.50	Bad ground, needs 150' rail track.
	2AD-25-CV	04	400	550	150				B	0.50	Check grade, needs sandfill & 100' track.
	2AD-26-CV	04	300	400	100	200	250	50	B	0.50	As above.
	2AD-27-CV	04	350	500	150				B	0.50	As above.
	2AD-27-HA	09	400	550	150				D	0.93	Inaccessible.
	2AD-26-HA	09	300	400	100				A	0.85	50/50 Sn & WO <sub>3</sub> . Needs sandfill otherwise O.K.
	2AD-24-1W	08	500	700	200				C	0.51	Needs sandfill. Uneconomical.
	2AD-27-1W	08	250	350	100				A	0.80	Access needed from 3 Level. Accessible when 3-27-FS reaches this horizon. 50/50 Sn & WO <sub>3</sub> .
	2AD-25-HA	09	200	250	50				A	0.95	Ready to operate. 50/50 Sn & WO <sub>3</sub> .
	2AD-25-HB	10	200	300	100				A	0.90	Ready to operate. Pred. WO <sub>3</sub> .
	2AD-26-HB	10	350	500	150				A	0.90	As above.
	2AD-25-1E	07	300	400	100				C		
			4,100	5,650	1,550	200	250	50			
1	1-32-FT	06	150	200	50				A	1.20	Sn pred. Needs fill, otherwise O.K.
	1-32-FT	06	50	100	50				A	1.20	As above.
	1-33-FT	06	100	150	50				A	1.20	As above.
	1-35-2A	12	150	200	50				A	1.15	Remnant, accessible. Pred. WO <sub>3</sub> .
	1-36-2A	12	600	800	200				A	1.15	Needs fill. " "
	1-37-2A	12	750	1000	250				A	1.08	As above.
	1-37A-2A	12	250	350	100				A	1.00	As above.
	1-38-2A	12	950	1300	350				A	0.98	As above.
	1-39-2A	12	750	1000	250				A	1.02	As above.
	1-39A-2A	12	150	200	50				A	1.02	Ready to operate. Pred. WO <sub>3</sub> .
	1-40-2A	12	500	700	200	200	250	50	A	1.02	Needs fill. Pred. WO <sub>3</sub> .
	1-40A-2A	12	350	500	150	450	650	200	A	1.02	As above.
	1-41-2A	12	250	350	100	250	350	100	B	0.50	Ready to operate. Pred. WO <sub>3</sub> . Check
	1-32-1W	08	700	950	250				B	1.00	Needs fill. Pred. WO <sub>3</sub> .
	1-33-1W	08	100	150	50				B	1.00	As above.
			5,800	7,950	2,150	900	1,250	350			

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE		DILUTION	INFERRED ORE		DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
				ORE TONNES (FACTOR OF (100/73 )			QUARTZ TONNES	ORE TONNES (FACTOR OF (100/73 )				
1A	1A-25-1W	SC-OR-08	200	300	100					C	0.40	Check grade. Small remnant. WO <sub>3</sub> .
	1A-26-1W	08	150	200	50					C	0.40	Bad ground. "
	1A-27-1W	08	200	300	100					C	0.40	As above "
	1A-28-HB	10	50	100	50					A	0.95	Worth prospect, was current.
	1A-29-HB	10	200	300	100					A	0.95	As above.
	1A-28-F	02	500	650	150					A	1.45	
	1A-23-HB	10	350	450	100					A	0.95	Needs sandfill. 50/50.
	1A-24-HB	10	200	250	50					A	0.95	As above.
	1A-24-HB	10	50	100	50					B	1.00	As above, small remnant.
	1A-22-1W	08	200	250	50					B	0.60	Check grade, bad ground, is ready.
	1A-20-HA	09	650	900	250					C	0.60	Needs fill.
	1A-24-1W	08	350	450	100					B	0.60	Check grade, bad ground, is ready.
	1A-21-HA	09	100	150	50					C	0.38	Needs fill.
				3,200	4,400	1,200						
2	2-34-CV	04	600	800	200					A	1.20	Truck 2 & 4 Levels then loco 6 Level. Treble handling. Needs fill, pred. Sn.
	2-36-CV	04	300	400	100					A	1.20	Needs fill. Pred. Sn.
	2-37-CV	04	400	550	150					A	1.20	As above.
	2-35-CV	04	300	400	100					A	1.20	As above.
	2-39-2A	12	250	350	100					A	1.20	Needs sand, was current. Pred. WO <sub>3</sub> . Pillar around aux. orepass.
	2-40-2A	12	100	150	50					A	1.20	Needs sand, was current. Pred. WO <sub>3</sub> .
	2-30-FS	04	350	500	150	300	400	100		A	1.25	New prospect, 50/50, fill then O.K.
	2-29-FS	04	450	600	150					A	1.25	As above.
	2-34-FT	06	100	150	50					B	0.95	Truck on 2 & 4 levels then loco. Small remnant, pred. Sn.
	2-32-1W	08	1250	1700	450					B	1.00	Truck on 2 & 4 levels then loco 6 L. Needs fill and track. Pred. Sn.
	2-33-1W	08	750	1050	300					B	1.00	As above.
	2-		1000	1350	350					B		Remnant pillar 2 Level.
	2-35-2A	12	550	750	200					C	0.80	Accessible remnant.
	2-36-2A	12	800	1100	300					C	0.85	Needs fill
2-37-2A	12	800	1100	300					C	0.85	As above.	
2-28-FS	04				100	150	50		E	1.00	New area - ready.	
			8,000	10,950	2,950	400	550	150				

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE TONNES (FACTOR OF (100/73	ORE DILUTION	QUARTZ TONNES	INFERRED ORE TONNES (FACTOR OF (100/73	ORE DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
3	3-33-CV	SC-OR-04	600	800	200				A	0.90	Needs fill and track.
	3-34-CV	04	400	550	150				A	0.90	As above.
	3-35-CV	04	300	400	100				A	0.90	As above.
	3-36-CV	04	150	200	50				A	0.90	As above.
	3-28-F	02	200	250	50	200	250	50	A	1.30	Ready, new prospect.
	3-29-F	02	450	600	150	200	250	50	A	1.30	As above.
	3-30-F	02	200	250	50				A	1.30	As above.
	3-26-FS	04	100	150	50	100	150	50	A	1.10	Ready.
	3-28-FS	04	200	300	100	50	100	50	A	1.10	Ready.
	3-27-FS	04	150	200	50	50	100	50	A	1.10	Ready.
	3-23-HA	09	50	100	50				B	1.00	Remnant, needs fill.
	3-24-HA	09	50	100	50				B	1.00	As above.
	3-25-HA	09	100	150	50				A	0.90	Needs fill.
	3-25-HA	09	300	400	100				A	0.93	As above.
	3-26-HA	09	600	800	200	200	300	100	A	1.30	As above.
	3-27-HA	09	950	1300	350	350	450	100	A	1.30	As above.
	3-28-HA	09	400	550	150	150	200	50	C	0.50	As above.
	3-26-1E	07	150	200	50	200	250	50	C	0.55	High cost for extraction.
	3-27-1E	07	200	250	50	250	350	100	C	0.55	As above.
	3-25-1EW	07	50	100	50				A	0.95	Small remnant.
	3-26-1EW	07	300	400	100				A	0.95	Needs fill otherwise O.K.
	3-27-1EW	07	400	550	150				A	0.95	As above.
	3-24-1W	08	200	300	100				A	1.10	Ready.
	3-25-1W	08	50	100	50				A	1.00	Ready.
	3-26-1W	08	100	150	50				A	1.12	Ready.
	3-39-2A	12	150	200	50				C	0.70	Orepass pillar.
	3-17-HA	09	250	350	100				D	0.50	Double handling, high trucking cost (800 H/T) then loco on 6 Level. High extraction cost.
	3-18-HA	09	100	150	50				D	0.50	As above.
	3-19-HA	09	200	250	50				D	0.50	As above.
	3-23-1E	07	350	500	150				B	0.75	Ready. Low grade WO <sub>3</sub> .
	3-24-1E	07	200	250	50				B	0.75	Ready. WO <sub>3</sub> .
	3-25-1E	07	250	350	100				B	0.75	As above.
	3-27-1W	08	550	750	200				B	1.00	Needs fill, otherwise O.K. WO <sub>3</sub> .
	3-33-1W	08	400	550	150				B	0.82	As above.
	3-27-C	03	200	250	50				C	0.40	Check grade. Poor access.
	3-40-2A	12	-	-	-	100	150	50	E	0.35	Check grade. Needs fill.
			9,300	12,750	3,450	1,850	2,550	700			

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE TONNES (FACTOR OF 100/73)	DILUTION	QUARTZ TONNES	INFERRED ORE TONNES (FACTOR OF 100/73)	DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
4	4-34-FT	SC-OR-06	400	550	150				A	0.85	Check. Double handling, loco 6 L. High cost for extraction. Sn.
	4-18-HA	09	150	200	50				A	0.80	Double handle, loco 6 L. Pred. WO <sub>3</sub> .
	4-17-HA	09	250	350	100				B	0.80	As above.
	4-25-HA	09	50	100	50				B	0.80	Remnant around loco orepass.
	4-26-C	03	500	650	150				C	0.45	Bad ground (ash bed).
	4-27-C	03	600	800	200				C	0.45	Check. As above.
	4-33-CV	04	550	750	200				B	1.20	75% Sn 25% WO <sub>3</sub> . Needs D.D. Expl. and development 4 Level.
	4-25-IW	08	50	100	50	50	50	-	A	0.80	Ready to operate. Pred. WO <sub>3</sub> .
	4-39-2A	12	150	200	50				C	0.60	Remnant around aux. orepass.
	4-40-2A	12	100	150	50				B	0.60	Needs fill. WO <sub>3</sub> .
	4-35-CR	02	150	200	50				D	0.40	Check grade, mainly Sn. Needs development, rise and access up dip required. High cost extr.
	4-37-CR	02	650	900	250				D	0.40	Needs development. High ext. cost.
	4-35-FT	06	-	-	-	150	200	50	E	0.60	Low grade.
			3,600	4,950	1,350	200	250	50			
5	5-28-HB	10	150	200	50				D	-	Inaccessible.
	5-32-2A	12	1100	1500	400				C	-	Bad ground conditions.
	5-34-2A	12	550	750	200				C	-	As above.
			1,800	2,450	650						
6	6-26-C	03	450	600	150				C	0.65	Needs fill (ash bed).
	6-29-F	06	100	150	50				B	1.00	Bad ground, difficult access.
	6-30-FS	01	50	100	50				A	0.80	Ready, small pillars.
	6-31-FS	01	200	300	100				A	0.92	Needs fill.
	6-32-FS	01	250	350	100				A	0.88	As above.
	6-33-FS	01	150	200	50				B	0.85	Pillar around aux. orepass.
	6-23-IE	07	100	150	50				A	0.95	Needs extensive clean up & fill.
	6-24-IE	07	150	200	50				A	0.95	As above.
	6-34-HC	11	450	600	150				A	1.00	Needs fill.
	6-35-HC	11	300	400	100				A	1.00	As above.
	6-38-X	02	500	650	150				B	0.65	No access from above.
	6-35-CR	02	250	350	100	250	300	50	B	0.85	Needs development.
	6-26-E	01	100	150	50				B	0.95	No access above.
	6-32-F	06	550	750	200	300	400	100	B	0.80	Needs fill.
	6-33-F	06	250	350	100	250	350	100	B	0.80	As above.
	6-24-HA	09	650	900	250				B	0.80	Needs sandfill.
	6-25-HA	09	400	550	150				B	0.80	As above.
	6-26-HA	09	150	200	50				B	0.80	As above.
	6-27-HA	09	800	1050	250				B	0.80	As above.

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE		QUARTZ TONNES	INFERRED ORE		DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
				ORE TONNES (FACTOR OF 100/73)	DILUTION		ORE TONNES (FACTOR OF 100/73)	DILUTION				
6	6-28-HA	SC-OR-09	550	750	200					B	1.15	Needs sandfill.
	6-29-HA	09	700	900	200	100	150	50		B	1.15	As above.
	6-25-1W	08	150	200	50					B	1.00	Mullock disposal needed, (Resue)
	6-37-X	02	50	100	50					B	0.65	No access above.
	6-39-X	02	500	700	200					B	0.65	As above.
	6-40-X	02	150	200	50					B	0.65	As above.
	6-19-HA	09	150	200	50	100	150	50		C	0.75	Needs access from 7 Level.
	6-20-HA	09	500	700	200					C	0.75	As above.
	6-21-HA	09	150	200	50					C	0.75	As above.
	6-28-HB	10	500	700	200					C	0.80	Needs fill.
	6-32-HB	10	500	700	200					C	0.90	As above.
	6-36-2B	11	450	600	150					C	1.00	Remnant, needs fill.
	6-37-2B	11	250	350	100					C	1.00	Needs fill.
	6-38-2B	11	50	100	50					C	1.00	As above.
			10,500	14,400	3,900	1,000	1,350	350				
6A	6A-37-2B	11	200	300	100					C	0.90	Access needed from 7 Level.
	6A-38-2B	11	200	250	50					C	0.90	As above.
	6A-39-2B	11	100	150	50					C	0.90	As above.
			500	700	200							
7	7-25-E	01	300	400	100					A	0.80	Ready. (Resue method)
	7-26-E	01	450	600	150					A	0.80	As above.
	7-27-E	01	200	250	50					A	0.80	As above.
	7-30-F	06	400	550	150					A	0.85	Cross cut, pillar.
	7-32-F	06	250	350	100					A	1.00	Needs fill (Remnant).
	7-32-F	06	250	350	100					A	1.00	As above.
	7-33-F	06	150	200	50					A	1.00	Ready. (Remnant).
	7-34-F	06	350	500	150					A	1.67	Ready.
	7-35-F	06	550	750	200					A	1.67	Ready.
	7-36-F	06	800	1100	300					A	1.67	Needs fill.
	7-35-2A	12	200	250	50					A	1.40	As above.
	7-36-2A	12	600	800	200					A	1.40	As above.
	7-32-FL	06	150	200	50					A	1.00	As above.
	7-31-FS	01	200	250	50					D	0.30	Vein becomes stringers.
	7-32-FS	01	50	50	0					D	0.30	As above.
	7-24-1W	08	100	150	50	100	150	50		D	0.50	Needs fill.
	7-25-1W	08	350	500	150	350	450	150		D	0.43	As above.
	7-26-1W	08	250	350	100					D	0.43	As above.
7-27-1W	08	250	350	100					B	0.50	Ready.	

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE TONNES (FACTOR OF 100/73)	ORE DILUTION	QUARTZ TONNES	INFERRED ORE TONNES (FACTOR OF 100/73)	ORE DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
7	7-36-X	SC-OR-02	100	150	50				A	0.70	Needs fill.
	7-37-X	02	200	250	50				A	0.70	As above.
	7-38-X	02	350	500	150				A	0.70	As above.
	7-39-X	02	200	250	50				A	0.70	As above.
	7-40-X	02	200	250	50				A	0.70	As above.
	7-37-H	11	300	400	100	150	250	50	A	1.60	Vein to be drilled in H/Wall.
	7-25-C	03	150	200	50				D	0.30	Low grade. High dilution.
	7-26-C	03	400	550	150				D	0.30	As above.
	7-27-C	03	200	250	50				D	0.30	As above.
	7-20-HA	09	50	100	50				B	1.00	Extract after 8-20-HA.
	7-20-HA	09	100	150	50				B	1.00	As above.
	7-21-HA	09	50	100	50				A	1.00	Small remnant, ready.
	7-28-HB	10	450	600	150				A	0.90	Needs fill, otherwise O.K.
	7-29-HB	10	350	500	150				A	0.90	As above.
	7-32-HB	10	400	550	150				D	0.40	Low grade, level needs repair.
	7-29-2A	12	50	100	50				A	1.01	Current. Ready.
	7-31-2A	12	500	700	200				A	1.01	As above.
	7-32-2A	12	300	400	100				A	1.01	As above.
	7-24-HA	09	200	250	50				C		
	7-25-HA	09	350	500	150				C		
	7-28-HA	09	250	350	100				C		
	7-30-HB	10	400	550	150				C		Shaft pillar.
	7-27-F	06	250	350	100				C		
	7-38-H	11	150	200	50	200	250	50	C	0.97	
	7-27-E	01				100	150	50	E		
			11,800	16,150	4,350	900	1,250	350			
7A	7A-32-HB	10	400	550	150				A		
	7A-31-2A	12	150	200	50				A	0.95	
	7A-32-2A	12	300	400	100				A	0.95	
	7A-29-HB	10	600	800	200				C		Shaft pillar.
	7A-30-HB	10	1450	2000	550				C		" "
	7A-30-2A	12	250	350	100				C		" "
			3,150	4,300	1,150						
7B	7B-32-2A	12	650	900	250				A		
	7B-33-2A	12	200	300	100				A		
	7B-31-HB	10	250	350	100				B		
	7B-31-2A	12	800	1100	300				B		
	7B-30-HB	10	650	850	200				C		Shaft pillar.
			2,550	3,500	950						

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE TONNES (FACTOR OF 100/73)	ORE DILUTION	QUARTZ TONNES	INFERRED ORE TONNES (FACTOR OF 100/73)	DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
8	8-30-HB	SC-OR-10	150	200	50				A	1.20	Needs fill.
	8-30-HB	10	200	250	50				A	1.20	Needs fill.
	8-35-2C	13	300	400	100				A	1.10	Needs fill.
	8-36-2C	13	150	200	50				A	1.10	Needs fill.
	8-37-2C	13	250	350	100	150	200	50	A	1.10	Ready.
	8-38-2C	13	350	450	100	300	400	100	B	1.20	Needs development from 9 level.
	8-39-2C	13	300	400	100	300	400	100	B	1.20	As above.
	8-38-W	05	400	550	150				A	1.40	Ready.
	8-39-W	05	100	150	50				A	1.40	Ready.
	8-37-X	02	500	700	200	200	300	100	A	1.00	Needs level timber.
	8-38-X	02	550	750	200				A	1.00	As above.
	8-21-HA	09	500	700	200				A	1.70	Current. Ready.
	8-22-HA	09	250	350	100				A	1.70	As above.
	8-27-E	01	100	150	50				A	1.60	Needs fill and development.
	8-26-E	01	200	250	50				A	1.60	As above.
	8-25-C	03	200	250	50				A	0.70	Fill and track.
	8-35-F	06	350	450	100				A	0.52	After 8-25-C
	8-32-FS	01	350	450	100	350	450	100	A	1.60	Being filled.
	8-33-FS	01	150	200	50	50	100	50	A	1.60	As above.
	8-20-HA	09	250	350	100				A	1.01	Current. Ready.
	8-23-HA	09	50	100	50				A	1.01	As above.
	8-24-HA	09	100	150	50				B	1.01	Pillars (needs fill).
	8-25-HA	09	100	150	50				B	1.60	As above.
	8-26-HA	09	150	200	50				B	1.60	As above.
	8-27-HA	09	200	300	100				B	1.60	As above.
	8-33-SF	01	450	600	150				C	0.50	Needs rise to ?
	8-37-W	05	50	100	50				B	1.20	After 8-37-X.
	8-35-X	02	200	300	100				C	0.50	Fill, bad ground.
	8-36-X	02	750	1000	250				C	0.50	As above.
	8-24-F	06	150	200	50				D	0.40	Vein strings out.
	8-28-F	06	50	100	50				A	1.50	Ready. Level pillars.
	8-29-F	06	50	100	50				A	1.50	As above.
	8-30-F	06	550	750	200				A	0.91	As above.
	8-31-F	06	400	550	150				A	0.91	As above.
	8-32-F	06	900	1200	300				A	1.50	As above.
	8-33-F	06	550	750	200				A	1.50	As above.
	8-34-F	06	200	300	100				C	0.52	Needs fill (pillars).
	8-29-HB	10	600	800	200				C	1.40	Cross cut & shaft pillar.
			11,100	15,200	4,100	1,350	1,850	500			
8A	8A-29-HB	10	1550	2150	600				A	1.50	Current. Ready.
	8A-30-HB	10	800	1050	250				A	1.50	As above.
			2,350	3,200	850						

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE ORE TONNES {FACTOR OF {100/73	DILUTION	QUARTZ TONNES	INFERRED ORE ORE TONNES {FACTOR OF {100/73	DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
9	9-22-F	SC-OR-06	800	1100	300				A	1.30	Needs fill.
	9-23-F	06	700	950	250				A	0.58	As above.
	9-24-F	06	400	550	150				A	1.30	As above.
	9-26-F	06	200	250	50				A	1.00	Needs access rise.
	9-29-F	06	50	100	50				C	1.40	Level pillar. Shaft pillar.
	9-31-F	06	450	600	150				A	0.89	Needs fill.
	9-32-F	06	100	150	50				A	1.08	Level pillar. Ready.
	9-34-F	06	700	950	250				A	1.08	Needs fill.
	9-35-F	06	900	1200	300				A	1.75	Prepped for fill.
	9-34-FWB	05	250	350	100				A	0.94	Current. Ready.
	9-35-FWB	05	350	450	100				A	0.94	As above.
	9-36-FWB	05	750	1000	250				A	0.94	As above.
	9-22-HA	09	600	800	200				A	1.01	Needs fill.
	9-25-HA	09	350	500	150				A	1.60	As above.
	9-27-HA	09	150	200	50				A	1.60	As above.
	9-28-HA	09	550	750	200				C	0.40	Galena.
	9-22-HAS	09	250	350	100				A	1.30	Needs fill.
	9-23-HAS	09	50	100	50				A	1.30	As above.
	9-26-SF	01	300	400	100				A	0.77	As above.
	9-27-SF	01	1900	2600	700				A	0.77	As above.
	9-28-SF	01	350	450	100				A	0.81	As above.
	9-29-SF	01	950	1300	350				A	1.30	As above.
	9-30-SF	01	850	1150	300	350	450	100	A	0.80	Needs access from 11 level.
	9-31-SF	01	800	1100	300				A	1.40	Needs fill.
	9-32-SF	01	350	500	150				A	0.78	As above.
	9-33-SF	01	550	750	200				A	0.83	As above.
	9-34-SF	01	950	1300	350	150	200	50	A	1.14	Needs fill to 11 level.
	9-35-SF	01	900	1250	350				A	1.14	Current. Ready.
	9-36-SF	01	750	1000	250	150	200	50	A	1.03	Needs access from 11 level.
	9-33-2C	13	150	200	50				A	0.54	Needs fill.
	9-34-2C	13	300	400	100				A	0.54	As above.
	9-35-2C	13	300	400	100				A	0.70	As above.
	9-36-2C	13	1200	1650	450				A	0.70	As above.
	9-37-2C	13	950	1300	350				A	0.70	As above.
	9-38-2C	13	500	700	200				A	0.70	As above.
	9-39-2C	13	100	150	50				A	0.70	As above.
	9-38-W	05	150	200	50				A	0.85	Needs fill. Extract from 11 L.
	9-39-W	05	100	150	50				A	0.85	As above.
	9-35-X	02	150	200	50				A	1.50	Needs fill & development.
	9-36-X	02	250	350	100				A	1.50	Extract from 11 level after fill.
	9-37-X	02	300	400	100				A	1.50	As above.

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE TONNES (FACTOR OF 100/73)	DILUTION	QUARTZ TONNES	INFERRED ORE TONNES (FACTOR OF 100/73)	DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
9	9-38-X	SC-OR-02	100	150	50				A	0.80	Vein strings out.
	9-25-F	06	250	350	100				C	0.40	Vein barren.
	9-30-F	06	100	150	50				C	0.70	Shaft pillar.
	9-31-F	06	600	800	200				C	0.30	Low grade.
	9-32-F	06	700	950	250				B	0.90	Needs fill.
	9-33-F	06	250	350	100				B	1.40	Prepped for fill.
	9-35-2B	11	50	100	50	50	100,	50	B & E	1.40	Level pillar.
	9-36-2B	11	200	250	50	200	250	50	B & E	1.60	Needs fill.
	9-37-2B	11	50	100	50	50	100	50	B & E	1.60	Needs fill (pillar).
	9-37-W	05	50	100	50	150	200	50	B & E	1.60	As above.
	9-38-W	05	-	-	-	100	150	50	E	1.60	Extract from 11 level.
				23,050	31,550	8,500	1,200	1,650	450		
10A	10A-35-F	06	800	1100	300				A	1.08	Needs fill.
	10A-36-F	06	400	550	150				A	1.08	As above.
	10A-37-F	06	850	1150	300				A	1.05	As above.
	10A-35-SF	01	200	250	50				A	1.02	Current. Ready.
	10A-36-SF	01	350	500	150				A	1.02	Needs fill.
			2,600	3,550	950						
11	11-24-F	06	50	100	50				A	-	Vein finished on S.E. Fault.
	11-25-F	06	250	350	100				A	0.69	Current. Ready.
	11-26-F	06	50	100	50				A	1.30	Needs fill.
	11-28-F	06	5000	6850	1850				A	0.49	As above.
	11-27-F	06	700	950	250				A	1.30	As above.
	11-29-F	06	100	150	50				C	0.52	Shaft pillar.
	11-27-FE	06	250	350	100				A	1.14	Needs fill.
	11-33-F	06	3750	5150	1400				A	0.86	As above.
	11-34-F	06	1800	2450	650				A	0.95	As above.
	11-35-F	06	550	750	200				A	0.95	As above.
	11-34-F.W.B.	05	600	800	200				A	0.67	Low grade. Check grade doubtful.
	11-35-F.W.B.	05	1050	1450	400				A	0.81	As above.
	11-36-F.W.B.	05	550	750	200				A	0.83	Current. Ready.
	11-37-F.W.B.	05	600	800	200				A	0.86	As above.
	11-26-HA	09	800	1100	300	450	600	150	A	0.71	Low grade.
	11-27-HA	09	1000	1350	350	400	550	150	A	0.65	Low grade. Ready.
	11-26-HAFS	10	450	600	150	450	600	150	A	0.53	Low grade. Assess grade.
	11-28-HAFS	10	50	100	50				A	0.40	As above.
11-29-HAFS	10	100	150	50				A	0.40	As above.	

LEVEL	LOCATION	ORE RESERVE PLAN NO.	QUARTZ TONNES	INDICATED ORE ORE TONNES (FACTOR OF {100/73})	DILUTION	QUARTZ TONNES	INFERRED ORE ORE TONNES (FACTOR OF {100/73})	DILUTION	CATEGORY	ESTIMATED HEAD GRADE	REMARKS
11	11-30-HAFS	SC-OR-10	500	700	200				A	0.40	Low grade. Assess grade.
	11-33-SF	01	1400	1900	500				A	0.67	Needs fill.
	11-34-SF	01	350	500	150				A	1.30	As above.
	11-27-SF	01	1150	1550	400				B	0.83	Needs access rise and fill.
	11-28-SF	01	550	750	200				B	0.85	As above.
	11-29-SF	01	1100	1500	400				C	0.86	Shaft pillar.
	11-30-SF	01	550	750	200				B	0.30	Low grade.
	11-31-SF	01	1350	1850	500				B	0.30	As above.
	11-32-SF	01	3000	4100	1100				B	0.67	Needs access rise.
	11-22-F	06	400	550	150				B		Check O/R plans.
	11-23-F	06	1000	1350	350				B	0.48	As above.
	11-36-F	06	200	300	100				B	0.95	Needs fill.
	11-37-F	06	700	950	250				B	1.09	As above.
	11-25-FE	06	450	600	150	300	400	100	B & E	1.03	Check O/R plans.
	11-24-HA	09	600	800	200	600	800	200	B & E		As above.
	11-25-HA	09	750	1000	250	750	1050	300	B & E		As above.
	11-28-HA	09	700	950	250	250	350	100	B & E		Vein barren.
	11-29-HA	09	150	200	50				B & E		As above.
	11-23-HAS	09	200	300	100	150	200	50	B & E		Check O/R plans.
	11-22-HAS	09	150	200	50	200	250	50	B & E		As above.
	11-28-S	02	100	150	50	100	150	50	B & E		As above.
	11-29-S	02	150	200	50	150	200	50	B & E		As above.
	11-35-X	02	50	100	50	150	200	50	B & E		As above.
	11-36-X	02	250	350	100	150	200	50	B & E		As above.
	11-37-X	02	150	200	50	250	350	100	B & E		As above.
	11-35-2C	13	500	700	200	200	300	100	B & E		As above.
	11-36-2C	13	450	600	150	500	700	200	C & E		As above.
	11-37-2C	13	350	500	150	450	600	150	C & E		As above.
	11-29A-F	06	1650	2250	600	350	500	150	C & E		As above.
	11-29A-SF	01	250	350	100				C & E	1.30	Shaft pillar.
	11-30A-SF	01	400	550	150				C & E	1.30	As above.
	11-24-FE	06	-	-	-	450	600	150	C & E	1.30	As above.
									E		Vein runs out on S.E.Fault.
			37,250	51,050	13,800	6,150	8,400	2,250			

LEVEL	LOCATION	ORE RESERVE PLAN NO.	INDICATED ORE			INFERRED ORE			CATEGORY	ESTIMATED HEAD GRADE	REMARKS
			QUARTZ TONNES	ORE TONNES (FACTOR OF) (100/73 )	DILUTION	QUARTZ TONNES	ORE TONNES (FACTOR OF) (100/73 )	DILUTION			
12	12-24-FE	SC-OR-06	100	150	50	100	150	50	C & E		
	12-25-F	06	600	800	200				C		
	12-26-F	06	2750	3750	1000				C		
	12-27-F	06	2850	3900	1050				C		
	12-28-F	06	1500	2050	550				C		
	12-29-F	06	4450	6100	1650				C & E		
	12-33-F	06	250	350	100	250	350	100	C & E		
	12-34-F	06	800	1100	300	800	1100	300	C & E		
	12-35-F	06	800	1100	300	800	1100	300	C & E		
	12-36-F	06	500	700	200	450	600	150	C & E		
	12-37-F	06	450	600	150	400	550	150	C & E		
	12-25-FE	06	400	550	150	400	550	150	C & E		
	12-26-FE	06	500	700	200	500	650	150	C & E		
	12-27-FE	06	250	350	100	250	350	100	C & E		
	12-35-FWB	05	250	350	100	250	350	100	C & E		
	12-36-FWB	05	450	600	150	450	600	150	C & E		
	12-37-FWB	05	300	400	100	300	400	100	C & E		
	12-28-S	02	100	150	50	100	150	50	C & E		
	12-29-S	02	150	200	50	150	200	50	C & E		
	12-26-HA	09	500	700	200	350	450	100	C & E		
	12-25-HA	09	-	-	-	200	300	100	E		
			17950	24,600	6,650	5,750	7,850	2,100			