

Zone 2 - Tonnage and Grade

① 3,424,003 Tons \geq 5% combined

~~Zn~~ Zn = 5.1 %
Pb = 3.4 %

} weighted average

- grades for each tonnage block are derived from the central hole and the next 4 closest holes (averaging effect.)
- 20' intersections were used for each hole (2 exceptions)
- weighting scheme (

% central hole	% first ring	no. of holes in 1 st ring
27	73	4
33	67	3
43	57	2
60	40	1

② same dilution

ie. 684,800 Tons @ 1.7% Zn & 0.8% Pb

as for ~~zone~~ trial I.

③ 2,739,202 Tons @ 5.1% Zn & 3.4% Pb
684,800 Tons @ 1.7% Zn & 0.8% Pb

total 3,424,003 tons @ 4.4% Zn & 2.9% Pb

④ grade distribution has a mean of 5.1% Zn and a s.d. of 0.91

- this model for grades ~~is~~ probably represents a truer picture of ^{actual} grade distribution for a ~~non~~ non-homogeneous ^{irregular} deposit such as this.
- also Kriged estimators are ~~a~~ better ^{in a} statistical sense than ^{straight} 1 hole - 1 block estimators.

- there are a fair number of cases where a drill hole does not intersect 20' of ~~min~~ ^{sec} min. so it is not possible to go into the deposit and average over 20'. In these cases

21/10/11

using the grades from surrounding holes ~~is probably~~
is better than ~~ext~~ extrapolating an average
over 5' for 10' to 20'.

ANVIL MINING CORPORATION

ORE RESERVES ZONE 2

all Benches.

Page 1 of 1

Drill Hole	Area Units	Tons (A.U. x K*)	O R E			Remarks	W A S T E			Total Yards
			Grade				Yards (A.U.xC*)	Area Units	Yards (x7407.4)	
			Pb	Zn	Comb					
39 30		30622	35	61	9.6					
39 10		77378	37	59	9.6					
38 90		195744	39	51	9.3					
38 70		240264	36	48	8.4					
38 50		401263	32	48	8.0					
38 30		368876	35	53	8.8					
38 10		553081	37	55	9.2					
37 90		531,173	32	51	8.3					
37 70		585115	31	47	7.8					
37 50		344145	31	4.9	8.0					
37 30		89275	3.6	5.1	8.7					
37 10		7067	3.5	3.6	7.1					

Page	Total a*							
	Total b*							
Bench	Total (a+b)	3424003	39	5.1				
	Cum Totala							
	Cum Totalb							
	Total(a+b)							

*K = 23555.55, c = 7407.4, a is ore in red blocks, b in orange blocks.

ARVIL MINING CORPORATION

ORE RESERVES ZONE 2

3850 Bench

Page 1 of 1

Drill Hole	Area Units	Tons (A.U. x K*)	O R E			Remarks	Yards (A.U.xC*)	W A S T E		Total Yards
			Pb	Zn	Cmb			Area Units	Yards (x7407.4)	
✓ 6713		72904	37	52						
✓ 6716		19315	29	47						
✓ 6718		28267	27	35						
✓ 6720		10835	24	63						
✓ 6722		8479		1.9	3.8					
✓ 6726		36275		3.8	4.6					
✓ 6728		25971		3.0	4.6					
✓ 73-4		61715		2.8	4.4					
✓ 73-5		1884		3.0	4.6					
✓ 73-6		22142		4.0	5.3					
✓ 73-7		52764		3.8	6.2					
✓ 73-18		38631		2.7	4.3					
✓ 73-19		14711		3.8	4.6					
✓ 73-21		4711		2.8	4.4					
✓ 7325		116959		2.1	3.5					

Page	Total a*							
	Total b*							
Bench	Total (a+b)	401263	3.2	4.8	8.0			
	Cum Totala							
	Cum Totalb							
	Total (a+b)							

*K = 23555.95, c = 7407.4, a is ore in red blocks, b in orange blocks

ANVIL MINING CORPORATION

ORE RESERVES ZONE 2

3790 Bench

Page 1 of 1

Drill Hole	Area Units	Tons (A.U. x K*)	O R E			Remarks	W A S T E			
			Grade				Yards (A.U.xC*)	Area Units	Yards (x7407.4)	Total Yards
			Pb	Zn	Comb					
6716		5653	39	57						
6717		38159	41	60						
6721		64542	34	53						
6725		48995	35	52						
6727		64071	34	45						
6728		16489	33	48						
6729		52293	29	47						
6731		43342	22	56						
73-6		11307	35	49						
73-8		706	34	53						
73-9		88097	33	50						
73-10		37218	34	51						
73-11		11307	25	39						
73-12		1413	30	43						
7316		14133	39	62						
7317		10835	37	62						
7323		9422	22	56						
7324		13191	24	47						

Total a*								
Total b*								
Total (a+b)	531,173	3.2	5.1	8.3				
Cum Totala								
Cum Totalb								
Total(a+b)								

*K = 23555.55, c = 7407.4, a is ore in red blocks, b in orange blocks

ANVIL MINING CORPORATION

ORE RESERVES ZONE 2

3770 Bench

Page 1 of 1

Drill Hole	Area Units	Tons (A.U. x K*)	O R E			Remarks	W A S T E			Total Yards
			Grade				Yards (A.U.xC*)	Area Units	Yards (x7407.4)	
			Pb	Zn	Comb					
6715		14133	45	62						
15		6124	45	62						
17		39573	39	63						
21		48053	34	50						
25		62656	33	40						
27		44284	35	44						
28		2356	35	57						
29		2356	20	38						
31		65955	20	49						
73-8		20729	30	56						
9		65013	32	43						
11		53235	24	40						
12		34862	27	34						
13		6595	25	35						
16		41458	40	60						
17		35804	35	57						
22		1413	20	49						
23		2356	20	49						
24		38160	21	39						

Page	Total a*						
	Total b*						
Bench	Total (a+b)	585115	3.1	4.7	7.8		
	Cum Total a						
	Cum Total b						
	Total(a+b)						

*K = 23555.55. c = 7407.4. a is ore in red blocks. b in orange blocks.

zone 2 grade distribution

- median is 4.0% Zn
- 95% of assays \leq 8.5% Zn
- relative reliability of 1973 and 1967 sampling and assaying

1973 data: 140 assays

50th percentile = 3.8% Zn uni modal
mode = 4.0%

95th percentile = 8.5% Zn

frequency distribution is approximately log normal

mean (geometric) = ~~4.18~~ $\bar{g} = 4.58$
 variance = ~~6.82~~ $s^2 = 5.78$

1967 data: 152 assays

50th percentile = 4.0% Zn unimodal
mode = 4.5%

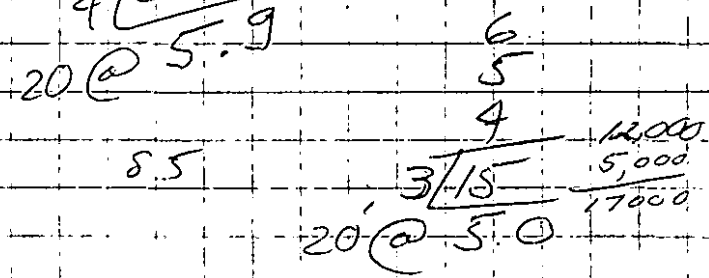
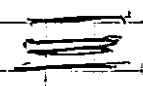
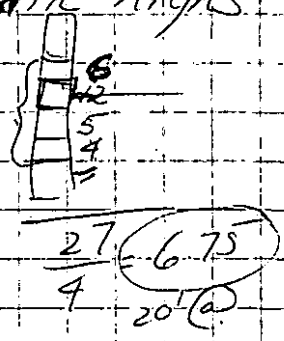
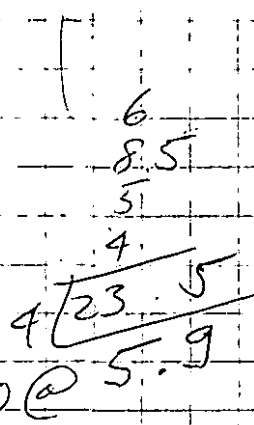
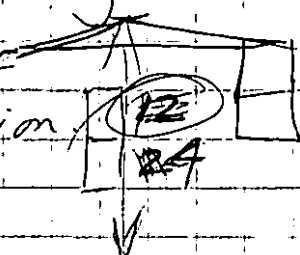
95th percentile = 8.5% Zn

frequency distribution is approx log normal

$\bar{g} = 4.82$
 $s^2 = 6.86$

rules of thumb

- disregard assays $>$ 8.5% Zinc as erratic highs
- reduce to average of intersection



① ~~bench~~ drill hole within full bench outline, \bar{g} = weighted average of ~~20~~

② drill hole between half & full outlines
 a) \bar{g} = weighted average of 'full 20' if 1/2 bench determined by interhal waste

= weighted average of 20' intersection \geq 5% either up hole or down hole