

Section 122

1978 Vintage Sections

① Block Model F3

Took F3 Block bench plans with grades intersection with section and transferred grades and blocks to section.

② ~~Calculated~~ Calculated F3 blocks by Hand.

Grades calculated from DDHS on section only. Took area of influence of each block out grade from Assay Section and averaged & weighted by area in block.

③ Simulated Mining.

Grades taken from Assay Section by bench intervals and averaged. Areas most affected are margins.

~~108,640~~ 108,640 13,600

④ Took Assay section calculated Reserves for Section. 116,300 3.96 6.11 Geologic Section

⑤ Simulated 108,640 3.67 5.74 Mined Section.

Mining of whole section 1) Tonnage lost because small areas cannot be recovered 2) Grade lost due to dilution.

⑥ In pit Assay Section at 6% cutoff

$$\begin{array}{r} \text{Au} \\ 95230 \text{ ft}^2 \\ \hline 8847 \text{ m}^2 \end{array} \quad \begin{array}{r} \text{Pb} \\ 3.69 \\ \hline \end{array} \quad \begin{array}{r} \text{Zn} \\ 5.4/6 \\ \hline \end{array}$$

CUT OFF 6 7/8 Pb + 2N

COMPARISON BETWEEN BLOCK MODEL AND SECTION

(IN PIT)

BENCH	BLOCK MODEL						F3 Block size MODEL GRADES						SECTION					
	ANEM		DIFF		GRADE Pb		ANEM		DIFF		GRADE Pb		ANEM		DIFF		GRADE Pb	
	Pt x 1000						Pt x 1000						Pt x 1000					
3570	1.42		3.90		4.30		0	-100%	0	-100%	0	-100%	0	-100%	0	-100%	0	-100%
3550	4.26		2.73		5.07	2.84	-33.8	2.50	-38.9	3.68	-25.3	1.34	-54.5	3.17	-47.1	6.71	-39.7	
3530	9.94		3.76		4.73	11.36	+14.3	3.21	-2.1	4.23	+2.2	6.44	-35.2	3.87	-33.3	4.95	-31.7	
3510	12.78		3.63		4.97	9.94	-22.2	3.83	-17.9	5.25	-17.3	9.94	-22.2	3.88	-16.9	5.31	-16.9	
3490	7.70		3.72		5.12	7.90	+2.6	3.52	-2.3	4.99	0	8.62	+12.0	3.71	+11.9	5.22	+14.1	
3470	14.64		3.44		4.66	11.80	-19.4	3.65	-19.5	5.15	-10.9	12.72	-13.1	3.57	-9.8	5.07	-5.5	
3450	4.26		3.17		4.66	8.20	+22.5	3.15	+21.3	4.61	+20.4	8.98	+110.8	3.12	+107.0	4.52	+104.5	
3430	9.94		3.02		4.13	9.94	+0.0	3.26	+7.9	5.22	+26.4	10.42	+4.8	3.27	+13.6	5.20	+32.0	
3410	8.52		3.35		4.98	10.36	+21.6	3.27	+10.7	5.25	+23.2	10.66	+25.1	3.28	+22.5	5.20	0.6	
3390	10.06		2.95		4.50	8.64	-14.1	2.99	-13.0	4.91	-13.9	8.76	-12.9	3.19	-5.8	5.06	-10.1	
3370	5.68		3.68		5.50	4.26	-25.0	3.08	-27.4	5.20	-29.1	4.32	-23.9	3.16	-29.9	5.27	-25.7	
3350	4.26		2.60		6.50	2.84	-33.3	2.78	-28.7	4.93	-49.4	2.76	-35.2	3.42	-14.8	5.80	-42.2	
3330	3.40		2.61		5.49	1.42	-58.2	3.18	-49.1	5.40	-58.9	2.00	-41.2	3.10	-30.1	5.31	-43.1	

4 - 6%

3570	2.18		2.07		2.75	0	-100	0	-100	0	-100	0.96	-56.0	2.04	-58.4	3.38	-46.0
3550	3.46		2.35		3.15	2.84	-17.4	2.15	-24.8	2.48	-34.5	5.86	+69.4	2.23	+60.8	2.75	+47.9
3530	6.60		2.15		2.61	1.42	-60.5	2.15	-78.5	1.97	-81.8	4.66	-29.4	2.48	-18.5	2.85	-22.9
3510	2.84		2.00		2.05	4.26	+50.0	2.32	+73.9	3.45	+152.4	3.26	+14.8	1.94	+11.3	3.27	+33.2
3490	5.68		1.98		3.05	4.26	-25.0	1.80	-31.8	3.18	-21.8	5.78	+1.8	1.95	=0	3.22	+7.5
3470	1.42		1.80		2.50	4.26	+200.0	2.08	+246.1	3.01	+261.1	2.50	+76.1	2.11	+106.3	3.08	0.9
3450	9.70		2.44		2.51	4.34	-55.3	2.56	-53.1	3.13	-42.3	4.28	-55.9	2.50	-54.8	3.11	-45.3
3430	1.30		2.20		2.40	1.42	+9.2	2.16	+7.3	2.77	+26.0	0.86	-33.9	2.42	-27.2	2.82	-22.1
3410	1.84		2.06		3.42	0	-100	0	-100	0	-100	0.20	-89.1	2.42	-87.3	2.86	-90.9
3390	0		0		0	1.42	-	2.09	-	3.02	-	0.44	-	2.12	-	3.33	-
3370	0.74		1.20		3.00	0	-100	0	-100	0	-100	0.68	-8.1	1.99	-54.7	3.41	+4.5
3350	0.54		1.10		3.60	1.42	+14.2	1.75	+322.0	2.97	+117.9	0	-100	0	-100	0	-100
3330	0		0		0	1.42	-	1.64	-	3.11	-	0	-100	0	-100	0	-100
total > 6%	96.86		3.33		4.92	89.50	-7.6	3.31	-8.2	5.00	-6.5	87.56	-9.6	3.46	-6.2	5.16	-5.2
4-6%	36.30		2.15		2.72	27.06	-25.5	2.12	-26.5	3.01	-17.5	29.48	-18.8	2.21	-16.5	3.04	-9.2
> 4%	133.16		3.01		4.32	116.56	-12.3	3.03	-11.9	4.54	-8.0	117.04	-12.1	3.15	-8.0	4.63	-5.8

BLOCK	MAP (TWE)		MES (BLOCK)			
	AREA	GRADE		AREA	GRADE	
		Pb	Zn		Pb	Zn
A	7,875	5.89	8.58	8,360	4.94	7.21
B	22,250	4.22	5.69	23,220	3.99	5.35
C	22,875	3.56	5.42	24,580	3.25	5.00
D	27,250	3.79	5.86	27,160	3.41	5.43
E	14,000	2.01	4.43	9,100	2.83	4.13
F	17,375	4.36	7.79	13,180	4.35	8.38
G	4,675	3.77	7.64	3,040	2.90	6.74
TOTAL	116,300	3.96	6.11	108,640	3.67	5.74

In Pit Assay
Section

Area x 10⁻⁴
9,230

kg
3.69

kg
5.46

kg

F3 MODEL

96.86
(92.02) reduce by 5%
to account for
SG diff

3.33
(3.16)

4.92
(4.67)

89.50

F3 blocks
grades interpolated
by hand
(in brackets)

89.50

3.31

5.00

87.56

Simulated
D Mining

87.56

3.46

5.16

?

Total
Geologic
Section

116,300

3.96

6.11

Simulated
Mining Whole
Section

108,640

3.67

5.74

F3

290.78

429.73

F3
bonuses
not reduced

322.54

476.55

Simulated

302.96

451.81