

002242

5 YEAR PIT  
1974 to 1978

	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>TOTALS</u>
	B	B				
<u>MILL FEED - PIT (TONS)</u>	2,292,402	2,267,143	3,660,000	3,650,000	3,650,000	15,519,545
(YD)	720,881	712,938	1,150,943	1,147,798	1,147,798	4,880,358
<u>Pb, Zn GRADES: CASE A</u>	39,62	39,62				
CASE B.	45,59	39,53				
<u>Alternative One: CASE A</u>			30,53	32,54	34,57	
CASE B.			30,52	32,53	34,56	
<u>Alternative Two: CASE A</u>			30,55	34,55	32,55	
CASE B			30,54	34,54	32,53	
<u>STCKPL. - RED (TONS)</u>	801,691					801,691
(YD.)	252,104					252,104
(GR.)	38,57					38,57
- YELLOW (TONS)	855,307	1,399,223				1,955,130
(YD.)	174,813	440,007				614,820
(GR.)	26,44	26,44				26,44
	<u>3,650,000</u> 4.1,5.6	<u>3,666,316</u> 3.4,5.3				
<u>WASTE (YD)</u>	6,493,724	6,504,316	6,965,513	6,965,513	6,965,513	33,894,579
<u>STRIPPING RATIO</u>	5.6/1	5.6/1	6.1/1	6.1/1	6.1/1	5.9/1
<u>TOTAL MOVEMENT (YD.)</u>	7,641,522	7,657,861	8,116,426	8,113,311	8,113,311	39,641,886

NOTES: (1) Alternatives One and Two apply only over 1976-78 (using Zone 2 over a 2 or 3 year period).  
 CASE A is before upgrading Pb and downgrading Zn; Case B is after upgrading Pb and downgrading Zn. But  
 1974 is the only year in which Pb is upgraded pending further investigation.

ORIGINAL 5 Yr. PLAN  
(COMPOSITE PLANS DEVEL. FOR THESE YEARS)

<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>
3,390,650	3,650,371	3,660,261	3,665,075	3,669,275
3.6, 6.2	3.6, 5.8	3.6, 5.8	3.2, 5.7	3.4, 5.8

RED S.P.	801,691	3.9, 5.7
YEL. S.P.	555,907	2.6, 4.4

YEL. S.P.	1,399,223	2.6, 4.4
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1974:	2,292,402	4.5	5.9
(YEL. STOCKPL.)	801,691	3.8	5.7
(RED STOCKPL.)	555,907	2.6	4.4
	<u>3,650,000</u>	<u>4.1</u>	<u>5.6</u>

- uses red & yellow stockpiles
- Pb upgraded, Zn downgraded
- pit carry-over into 1975

Originally	3,390,650	3.6	6.2	5.7
Rev. (from pit)	2,292,402	3.9	6.2	5.7
	<u>1,098,248</u>	<u>3.0</u>	<u>6.2</u>	<u>5.7</u>

<u>1975:</u>	PIT-RUN	2,267,143	3.9, 6.2, 5.9
	YEL. S.P.	<u>1,399,223</u>	<u>2.6, 4.4, 4.4</u>
		<u>3,666,366</u>	<u>3.4, 5.4, 5.3</u>

Originally (1975 design)	3,650,371	3.6	5.9	5.8
Carry-over from '74	1,099,248	3.0	6.2	5.7
Deduct pit-run rev '75	<u>2,267,143</u>	<u>3.9</u>	<u>6.2</u>	<u>5.7</u>
Carry-over from '75 to '76	<u>2,481,476</u>	<u>3.1</u>	<u>5.7</u>	<u>5.8</u>

- Zn has been downgraded.

1976 to 1978

TWO ROUTES TO FOLLOW:

- 1) introducing Zone 2 ore completely in two years, (1976 & 1977) and then calculating out 1978 from best available source.
- 2) introducing Zone 2 ore over a period of 3 years to stagger the effect of the low grade ore as much as possible.

ALTERNATIVE

ROUTE ONE (1976)

1/2 of Zone 2:	1,464,094	2.8, 4.7, 4.7
Req. portion of '75 carryover:	<u>2,195,906</u>	<u>3.1, 5.7, 5.6</u>
	<u>3,660,000</u>	<u>3.0, 5.2, 5.2</u>

(1977)

1/2 of Zone 2:	1,464,094	2.8, 4.7, 4.7
Rem. port. '75 carryover:	285,570	3.1, 5.7, 5.6
Req. port of orig '76 ore:	<u>1,900,336</u>	<u>3.6, 5.8, 5.7</u>
	<u>3,650,000</u>	<u>3.2, 5.4, 5.3</u>

(1978)

1976 Carryover:	1,759,925	3.6, 5.8, 5.7
Req. from 1977:	<u>1,890,075</u>	<u>3.2, 5.7, 5.5</u>
	<u>3,650,000</u>	<u>3.4, 5.7, 5.6</u>

'75 to '76 carryover:	2,481,476	3.1, 5.7, 5.6
Req. to complete '76:	<u>2,195,906</u>	<u>3.1, 5.7, 5.6</u>
Carryover into 1976:	<u>285,570</u>	<u>3.1, 5.7, 5.6</u>

1976 Original ore:	3,660,261	3.6, 5.8, 5.7
Req. to complete 1977:	<u>1,900,336</u>	<u>3.6, 5.8, 5.7</u>
Carried over into '78:	<u>1,759,925</u>	<u>3.6, 5.8, 5.7</u>

1977 Original ore:	3,665,075	3.2, 5.7, 5.5
Req. from '77 to compl. '78:	<u>1,890,075</u>	<u>3.2, 5.7, 5.5</u>
Rem. from '77:	<u>1,775,000</u>	<u>3.2, 5.7, 5.5</u>

1976 to 1978

ROUTE TWO: Zone 2 ore over 3 years: 976,062 T/yr. @ 2.8, 4.7

1976:

Carry-over from '75 to '76:	2,481,476	3.1	5.7	5.6
1/3 of Zone 2:	976,062	2.8	4.7	4.7
Reqd. from '76 original plan:	<u>202,462</u>	<u>3.6</u>	<u>5.8</u>	<u>5.7</u>
	<u>3,660,000</u>	<u>3.0</u>	<u>5.5</u>	<u>5.4</u>

Original 1976 ore:	3,660,261	3.6	5.8	5.7
Reqd to complete '76:	<u>202,462</u>	<u>3.6</u>	<u>5.8</u>	<u>5.7</u>
Carried over into '77:	<u>3,457,799</u>	<u>3.6</u>	<u>5.8</u>	<u>5.7</u>

1977:

1/3 of Zone 2:	976,062	2.8	4.7	4.7
Bal. of '76 to complete year:	<u>2,673,938</u>	<u>3.6</u>	<u>5.8</u>	<u>5.7</u>
	<u>3,650,000</u>	<u>3.4</u>	<u>5.5</u>	<u>5.4</u>

'76 carryover into '77:	3,457,799	3.6	5.8	5.7
Req. to complete year:	<u>2,673,938</u>	<u>3.6</u>	<u>5.8</u>	<u>5.7</u>
Carried into '78:	<u>783,861</u>	<u>3.6</u>	<u>5.8</u>	<u>5.7</u>

1978:

1/3 of Zone 2:	976,062	2.8	4.7	4.7
'76 carryover into '78	783,861	3.6	5.8	5.7
Req. from 1977 ore:	<u>1,890,075</u>	<u>3.2</u>	<u>5.7</u>	<u>5.5</u>
	<u>3,650,000</u>	<u>3.2</u>	<u>5.5</u>	<u>5.3</u>

1977 original plan:	3,665,075	3.2	5.7	5.7
Req. from '77	<u>1,890,075</u>	<u>3.2</u>	<u>5.7</u>	<u>5.7</u>
	<u>1,775,000</u>	<u>3.2</u>	<u>5.7</u>	<u>5.3</u>