

MEMORANDUM

TO: J. W. Mossop
FROM: M. O. Hampton
DATE: September 23, 1971
SUBJECT: PIT PLANNING 1972 PHASES 2 & 3

The accompanying pages lay out the Faro No.1 Pit Plans for 1972, Phases 2 and 3 which work will complete the 1972 plan.

The print illustrates the pit as it will appear at the end of Phase 2 development which should be completed August 10. The appearance at the end of Phase 3 is as shown on the drawing for December 31, 1972. The bar chart issued with the year and Phase 1 Plan, September 8, has been revised to show Phase 2 development finishing August 10, 1972.

Studies have shown a savings in reducing equipment scheduling by cutting out Sunday and Statutory holidays work rather than scheduling fewer shifts/day on a continuous basis. The mine, maintenance, and engineering departments are in agreement on this option. Therefore, in these plans the schedule has been reduced by dropping Sunday and Statutory holiday work after completion of Phase 1 (March 17/72).


M. O. Hampton
Chief Engineer

cc. R. E. Thurmond
J. F. Olk
N. G. Cornish
Ore Control ✓

N. G. Stephenson
H. Grenier
Planning

MOH/ad

1972 PIT PLAN

Phase 2

OBJECT: To continue to maintain a minimum six months of ore reserves at an average grade of 12% for 6600 T.P.D. milling rate; and further to provide for milled tonnage over 6600 T.P.D. at 7% average grade.

ASSUMPTION: The concentrator will operate at 7500 T.P.D. on a combined grade of 11.4% Pb and Zn. Allow 1.5 shovel shifts/day for ore.

	<u>ORE DEVELOPED FOR MILL</u>		<u>LOW GRADE FOR STOCKPILE</u>	
	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>	<u>Grade</u>
3990	55,017	10.57	53,509	9.45
3950	183,892	10.97	114,555	9.08
3910	414,511	10.92	-	-
3870	358,124	12.31	100,989	5.76
	<u>1,011,544</u>	<u>11.4</u>	<u>269,053</u>	<u>7.91</u>

<u>ORE AVAILABILITY:</u>	<u>Tons</u>	<u>Grade</u>
Developed on March 17, 1972 by Ph.1-72 at 7500 T.P.D., will last until October 7, 1972	1,355,750	11.4
Developed on August 10, 1972 by Ph.2-72 at 7500 T.P.D. will last until February 19, 1973	1,011,544	11.4
	<u>2,367,294</u>	<u>11.4</u>

1972 PHASE 2

Waste & L.G.

<u>BENCH</u>	<u>QUANTITY (cubic yards)</u>
4135	309,000
4100	509,000
4065	240,000
4030	247,000
3990	253,000
3950	310,000
3910	95,000
3870	77,000
	<hr/>
	2,040,000

1972 PIT PLAN PHASE 2

EQUIPMENT SCHEDULING

Shovels

Total waste and low grade ore - 2,040,000 cu. yds.

Shovel productivity - 2,250 cu. yds./sh.st.

Shovel shifts required - $\frac{2,040,000}{2,250} = 907$ sh.sts.

Days required at 7.5 shovel shifts/day = 121 days.

Completion date (taking start at March 18)

Sundays and Statutory holidays off = August 10.

DRILLS

Average hole depth = 42 feet.

Average cu. yd./hole = 663 cu. yds.

Cu.yd/drill foot = $\frac{663}{42} = 15.8$

Drill footage for ore and waste req'd $\frac{2,327,736}{15.8}$ cu.yds. = 147,325

Drill footage/shift = 310

Shifts required = $\frac{147,325}{310} = 475$

Shifts/day = $\frac{475}{121} = 3.9$ or say 4

1972 PIT PLAN

Phase 3

OBJECT: To complete 1972 Pit Plan.

ASSUMPTION: Concentration will operate at 7500 T.P.D. at a feed grade of 11.4% combined Pb and Zn.

	<u>ORE DEVELOPED FOR MILL</u>		<u>LOW GRADE FOR STOCKPILE</u>	
	<u>Tons</u>	<u>Grade</u>	<u>Tons</u>	<u>Grade</u>
3950	70,080	11.7	49,740	8.76
3910	131,880	11.30	81,410	4.58
3870	208,000	11.94	76,860	6.35
3830	416,400	13.81	310,000	7.61
	<u>826,360</u>	<u>12.7%</u>	<u>518,000</u>	<u>7.0%</u>

ORE AVAILABILITY

Developed on July 25, 1972 by Ph.2-72
at 7500 T.P.D. will last until Feb.19, 1973

Developed by Ph.3-72

at 7500 T.P.D. will last until July 5, 1973.

	<u>Tons</u>	<u>Grade</u>
Developed on July 25, 1972 by Ph.2-72 at 7500 T.P.D. will last until Feb.19, 1973	1,011,500	11.4
Developed by Ph.3-72	826,360	12.7
	201,140	6.0
	<u>1,027,500</u>	<u>11.4%</u>

~~306,310 77 (6.1)~~

1972 PHASE 3

Waste & L. G. Ore.

<u>Bench</u>	<u>Quantity</u>
4065	363,000
4030	391,000
3990	434,000
3950	340,000
3910	224,000
3870	48,000
	<hr/>
	1,800,000

NOTE: Bench 4170 is completed to 1972 limits during PHASE 1.
Benches 4135 and 4100 are completed to 1972 limits
during PHASE 2.

1972 PIT PLAN PHASE 3

EQUIPMENT SCHEDULING

1. Six days per week, Sundays and Statutory holidays off.
2. Nine shovel shifts per day - 7.5 Waste & L.G. Ore,
1.5 Mill Feed
3. Four drill shifts per day.

As with all plans and schedules the equipment schedule will be reviewed from time to time in the light of equipment productivity history under the operating conditions set out in the plans.

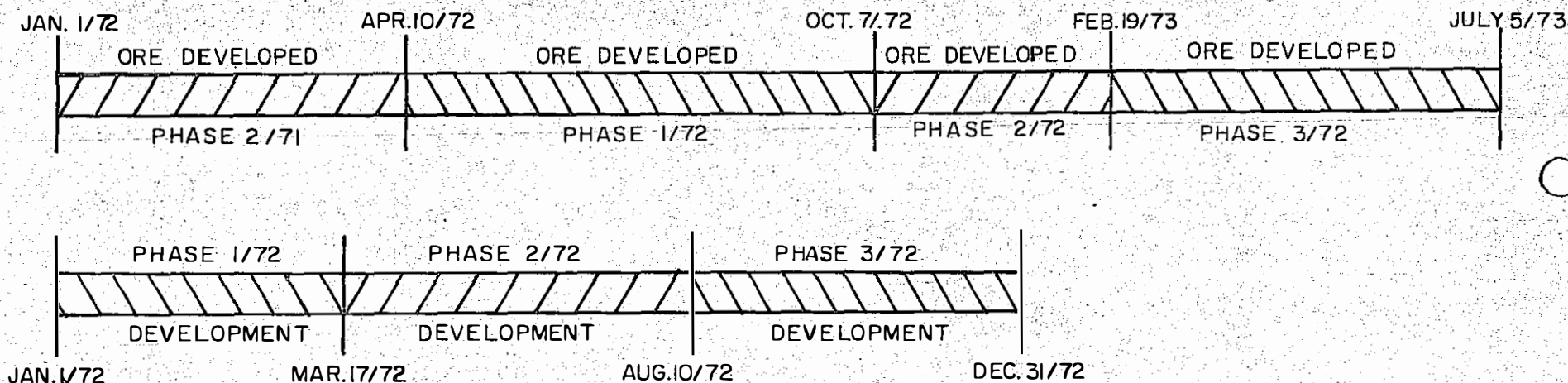


CHART SHOWING RELATIONSHIP OF
DEVELOPMENT AND ORE AVAILABILITY
(TO ACCOMPANY 1972 PLAN)

ANVIL MINING CORP.
FARO, Y.T.

DWG. NO FD-7166

FILE: W-1