

MEMORANDUM

TO: M. O. Hampton

FROM: P. M. Pettigrew

DATE: February 21, 1972

SUBJECT: PROPOSED (ORE CONTROL) DEVELOPMENT DIAMOND DRILLING -
ZONE #1

A consideration of past problems with grade and tonnage prediction would seem to indicate that the minimum satisfactory coverage of ore in zone #1 is a 200' x 200' N-S, E-W grid. The attached diagram shows 15 holes which fall on this grid and should be drilled. They all occur within the ore zone established in a recent revision of the bench plans.

The table below summarises results expected in these holes.

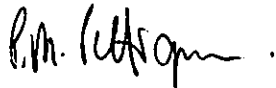
<u>Hole No.</u>	<u>Depth (ft.)</u>	<u>Ore Thickness</u>	<u>Ratio Th/Depth</u>
01	400	150	0.37 *
02	170	70	0.41 *
03	480	240	0.50 *
04	470	210	0.45 *
05	250	70	0.28 *
06	450	130	0.29 *
07	500	200	0.40 *
08	650	220	0.34 *
09	380	70	0.18
10	500	100	0.20
11	600	200	0.33 *
12	750	140	0.19
13	450	80	0.18
14	550	90	0.16
15	800	170	0.21
	<u>7,400 feet</u>	<u>2,140 feet</u>	

* Holes involving > 25% ore per unit length

If holes yielding > 25% ore per unit length are considered alone, 3970 feet of drilling would have to be done. If these are not drilled, the data available for planning would be very far short of satisfactory.

Holes O2, O5, and O6 should be drilled in 1972 over and above those included by D. Jennings in his proposal and would require an additional 870 feet of drilling. The remaining holes (6) would, in some cases, have reduced collar elevations by 1973 according to the present mining plan. This reduction would amount to a minimum of 210 feet in the balance of 3100 feet to be drilled.

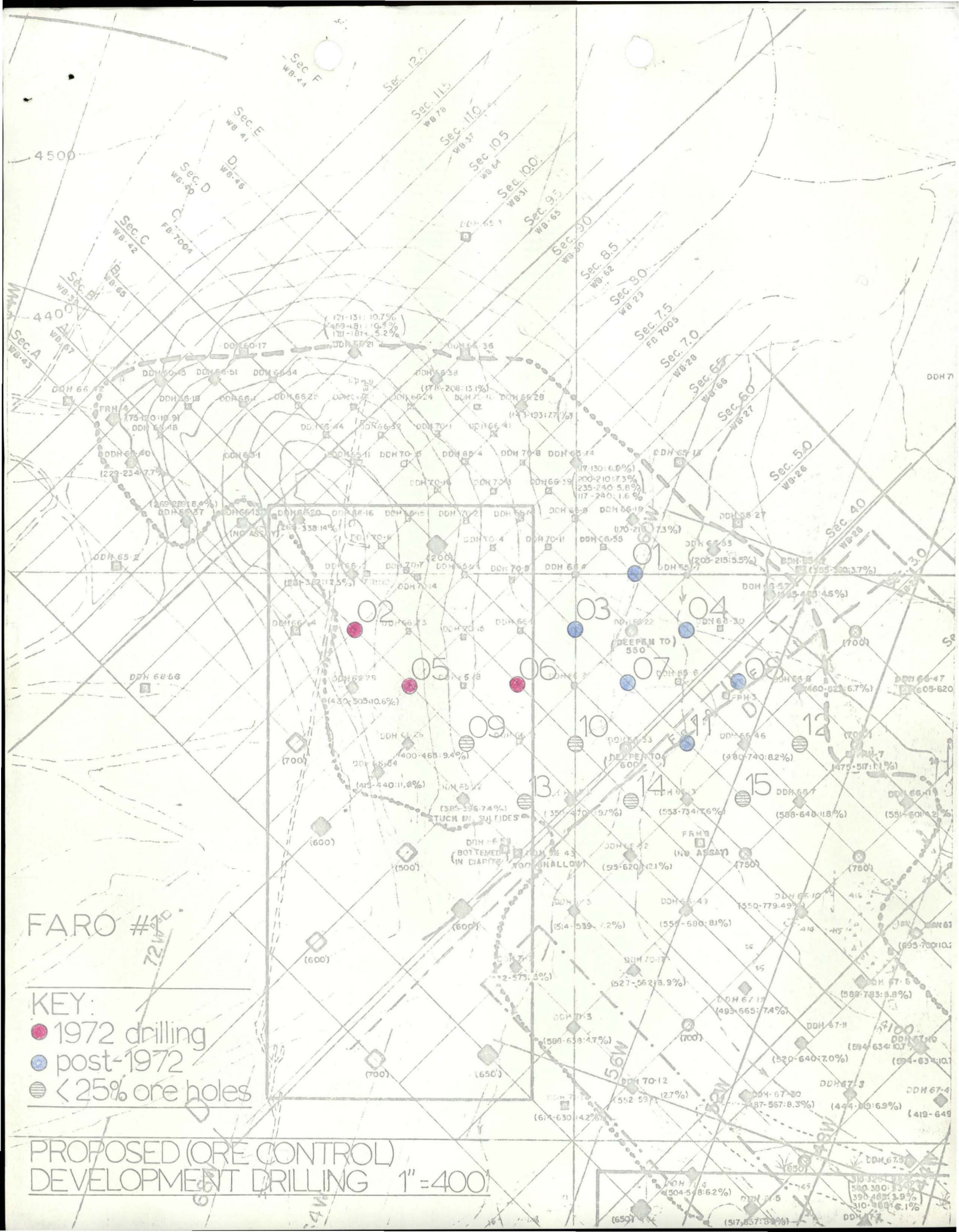
The remaining holes could probably be further broken down into 1973 and 1974 drilling programs as pit planning proceeds, and it might still be possible to drill a portion of the lower priority holes (< 25% ore/unit length) as mining proceeds in these areas.



P. M. Pettigrew
Ore Control Geologist

PMP/mm

cc. U. X. Jansons
D. S. Jennings
J. R. McLachlan



FARO # 72120

- KEY:**
- 1972 drilling
 - post-1972
 - ⊖ < 25% ore holes

PROPOSED (ORE CONTROL) DEVELOPMENT DRILLING 1"=400'

DDH 66-17 (121-131: 10.7%)
 DDH 65-17 (121-181: 5.2%)
 DDH 66-18 (175-180: 10.9%)
 DDH 65-18 (175-180: 9.1%)
 DDH 66-19 (175-180: 10.9%)
 DDH 65-19 (175-180: 9.1%)
 DDH 66-20 (229-234: 7.7%)
 DDH 65-20 (229-234: 7.7%)
 DDH 66-21 (269-281: 8.4%)
 DDH 65-21 (269-281: 8.4%)
 DDH 66-22 (269-338: 14%)
 DDH 65-22 (269-338: 14%)
 DDH 66-23 (281-322: 12.5%)
 DDH 65-23 (281-322: 12.5%)
 DDH 66-24 (319-330: 10.6%)
 DDH 65-24 (319-330: 10.6%)
 DDH 66-25 (400-465: 9.4%)
 DDH 65-25 (400-465: 9.4%)
 DDH 66-26 (415-440: 11.8%)
 DDH 65-26 (415-440: 11.8%)
 DDH 66-27 (385-396: 7.4%)
 DDH 65-27 (385-396: 7.4%)
 DDH 66-28 (135-140: 9.7%)
 DDH 65-28 (135-140: 9.7%)
 DDH 66-29 (553-734: 7.6%)
 DDH 65-29 (553-734: 7.6%)
 DDH 66-30 (555-680: 8.1%)
 DDH 65-30 (555-680: 8.1%)
 DDH 66-31 (527-562: 8.9%)
 DDH 65-31 (527-562: 8.9%)
 DDH 66-32 (591-638: 4.7%)
 DDH 65-32 (591-638: 4.7%)
 DDH 66-33 (552-591: 12.7%)
 DDH 65-33 (552-591: 12.7%)
 DDH 66-34 (614-630: 4.2%)
 DDH 65-34 (614-630: 4.2%)
 DDH 66-35 (450-518: 6.2%)
 DDH 65-35 (450-518: 6.2%)
 DDH 66-36 (517-557: 8.3%)
 DDH 65-36 (517-557: 8.3%)
 DDH 66-37 (310-320: 3.3%)
 DDH 65-37 (310-320: 3.3%)
 DDH 66-38 (390-482: 3.9%)
 DDH 65-38 (390-482: 3.9%)
 DDH 66-39 (310-360: 6.1%)
 DDH 65-39 (310-360: 6.1%)
 DDH 66-40 (584-634: 10.7%)
 DDH 65-40 (584-634: 10.7%)
 DDH 66-41 (594-634: 10.7%)
 DDH 65-41 (594-634: 10.7%)
 DDH 66-42 (588-783: 8.8%)
 DDH 65-42 (588-783: 8.8%)
 DDH 66-43 (588-783: 8.8%)
 DDH 65-43 (588-783: 8.8%)
 DDH 66-44 (444-489: 6.9%)
 DDH 65-44 (444-489: 6.9%)
 DDH 66-45 (419-649)
 DDH 65-45 (419-649)