

Part III Conclusion and Recommendation

Chapter 1

1. Recommendation for Next Survey

1-1 Conclusion

It can be obviously explained that the magnetic anomaly around MJTK-2 is due to the gabbro gotten from this hole, because the main part of the rock is magnetic. And it is also explained that the IP anomaly and the low resistivity at approximately 190m depth in MJTK-1 are due to the high graphite content in the pelitic rock. However the larger scale of the magnetic anomaly that cover this area including the vicinity of MJTK-1, over more than 2km from east to west, cannot be explained by any known data. The direction of deviation could not be measured in the deep part of MJTK-1, probably because some magnetic material exists around there.

The material has the following 2 possibilities.

1. Igneous rock (Gabbro, diorite and so on)
2. Massive sulfide ore deposit

The first possibility suggests that a magnetic, igneous, and deep rock (gabbro etc.) can be in the south of MJTK-1. And the second possibility suggests that some massive sulfide ore deposit can be in a deep stratum, because the rock cores gotten in this survey are regarded to belong to upper strata from the massive sulfide ore horizon around this area.

2-2 Survey of Phase III

The dip of the Paleozoic formation in this area is probably toward west. Therefore the massive sulfide ore horizon can be encountered in a directional or vertical drilling at the eastern place from MJTK-1, if some massive sulfide ore deposit is in a deep stratum in this area.

It is impossible to distinguish magnetic igneous rock (gabbro etc.) and massive sulfide ore body by known magnetism and gravity data. And some weak IP anomaly (low resistivity and high chargeability) gotten in the geophysical survey of this fiscal year may be due to some graphite concentration.

Therefore the survey targets should be extremely magnetic deposits in order to plan the drilling point direction and depth. And it is necessary to combine the results of ground magnetic survey and IP survey.