

Chemical characteristics of granitic rocks from the wells at the Yufutsu district, Hokkaido and their bearing on significance.

Satoshi Kanisawa [1], Yasuo Yamada [2], Ken-ichi Ishikawa [3]

[1] Inst.Min.Pet.Econ Geol., Tohoku Univ., [2] JAPEx, [3] Inst.Mineral.Petrol.Econ.Geol., Tohoku Univ.

<http://earth.ganko.tohoku.ac.jp/members/kanisawa>

Granitic rocks taken from cores of the wells at the Yufutsu district were studied. Their chemistry is similar to that of rocks in the Zone I in the Kitakami Mountains. The ranges of chemical composition is not so large and varies from 70 to 80 % SiO₂; however, these gradual chemical changes of rocks may indicate the possibility that we can observe the top of a zoned pluton. The distribution of positive magnetic anomalies from Hokkaido to offshore Joban, volcanic rocks of the Rebun - Kabato Zone, similarity of granitic rocks of the Yufutsu district and Zone I, existence of granites belonging to Zone I reported from the offshore Kesennuma indicate that the Zone I continues at least from the offshore Kesennuma to Tomakomai.