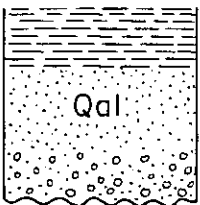
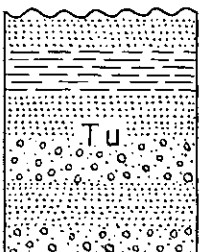
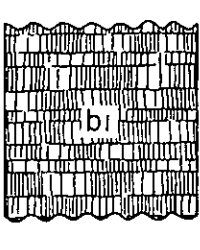
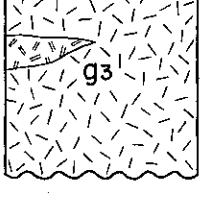
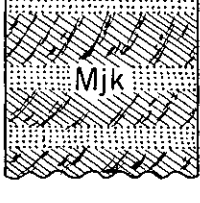
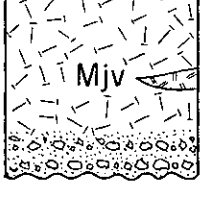
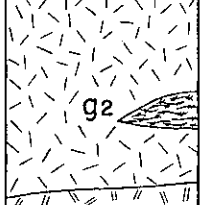


GEOLOGIC COLUMN AND UNIT DESCRIPTION

AGE	ROCK UNIT	LITHOLOGY; THICKNESS WHERE KNOWN	UNIT DESCRIPTION
QUATERNARY	Alluvium	 Qal	Sand, clay and gravel; thickness less than 10 meters
	UNCONFORMITY		
TERTIARY	Neogene formation	 Tu	Sandstone, shale and gravel; thickness more than 100 m
	UNCONFORMITY		
	Paleogene basalt	 Bi	Augite-olivine basalt and olivine dolerite; thickness more than 130 m
EFFUSIVE CONTACT			
MESOZOIC	Cretaceous granite	 G3	Biotite granite, two-mica granite, hornblende-biotite granite and aplite
	INTRUSIVE CONTACT		
	Jura-Cretaceous(?) formation	 Mjk	Sandstone and clay slate; thickness unknown
	UNCONFORMITY		
Jurassic volcanic complex (Greenstone complex)	 Mjv	Diorite porphyry, andesite porphyry, diabase porphyry, propylite, tuff and breccia; thickness unknown	
EFFUSIVE AND INTRUSIVE CONTACT			
Pre-Jurassic granite	 G2	Biotite granite, gneissose granite, two-mica granite, hornblende-biotite granite, micrographic granite and leucocratic granite	
(Column not drawn to scale)			

REFERENCES

OHKI, Ken'ichi, 1938, Report on the mineral resources along the proposed railway between Nen-ch'eng and Ch'i-kanf'ang [滿洲里至海拉尔间拟议铁路沿线之矿产]. Unpubl. rept., S. Manchuria Ry. Co.

1939, Report on the mineral resources along the proposed railway between Nen-ch'eng and Ou-p'u [嫩江至鄂博梁间拟议铁路沿线之矿产]. Unpubl. rept., S. Manchuria Ry. Co.

SAITO, Rinji, compiler, 1940, Geological map of Manchuria and adjacent areas, scale 1:3,000,000: Manchoukuo Geol. Inst.

YAMASHIMA, Sadao, 1935, Geology of the northern part of the Great Hsing-an Range: Shina Kogyo Jihō (Manchuria Geol. and Mining Rev.), no. 83, Geol. Inst., S. Manchuria Ry. Co.