

analysis, which was done in duplicate. A thin section from the specimen when examined under the microscope, shows it to consist of analcite and orthoclase fragments about 3 mm. in diameter, together with three or four prisms of aegirite augite about 1 mm. long. The finer grained matrix consists of a mixture of orthoclase, analcite, aegirite-augite and small fragments of garnet. Orthoclase makes up the greater part of this matrix. The particular slide examined showed analcite to be in excess of orthoclase: but judging from the relative amounts of alkalis as given in Dr. Dickson's analysis, column II, table II, it seems that the specimen as a whole contains excess of orthoclase.

TABLE NO. II.

	I	II	IIA.	III
SiO <sub>2</sub>	47.82	54.95	.916	52.83
Al <sub>2</sub> O <sub>3</sub>	13.56	18.64	.182	20.70
Fe <sub>2</sub> O <sub>3</sub>	4.73	4.75	.029	2.84
FeO	4.54	1.55	.021	1.19
MgO	7.49	0.60	.015	.41
CaO	8.91	2.27	.041	1.00
Na <sub>2</sub> O	4.37	4.91	.079	9.94
K <sub>2</sub> O	3.23	7.65	.081	4.87
H <sub>2</sub> O +	3.37	3.35	.185	5.28
H <sub>2</sub> O -		0.90		.37
TiO <sub>2</sub>	0.67	0.42	.005	0.16
P <sub>2</sub> O <sub>5</sub>	1.10	0.18	.001	0.03
Cl	0.04			0.06
Mn O	Trace	0.34	.005	
Ba O	0.16			
SrO	0.21			
	100.20	100.51		99.62

I. Analcite basalt from dike on east side of Highwood Gap. H. W. Foote, analyst.<sup>1</sup>

II. Analcite-trachyte-tuff from a point some six miles south of the town of Blairmore which is situated on the Crows Nest branch of the Canadian Pacific Railway. The specimen

1. Igneous rocks, Highwood Mountains, Mont. L. V. Pirsson, Bull. No. 237 U. S. Geol. Sur., 1905.