Petrographic Report

July 27, 1950

Sample Nos: P-10142 (KB-157), P-10143 (KB-158), P-10144 (KB-159)


Wanted: Identification

I. Sample No. P-19142 (KB-157) - core from 4300' to 4305'

1. Macroscopic description:

   A black aphanitic igneous rock

2. Microscopic determination:

   Essential minerals:

   1) Plagioclase feldspar - extinction angle on sections normal to 010 range from 28° to 34° indicate bytownite

   2) Augite

   3) Volcanic glass (minor)

3. Determination: Basalt

II. Sample No: P-10143 (KB-158) core from 4230' to 4233'

1. Macroscopic description:

   A greenish-gray aphanitic igneous rock (apparently extremely altered as indicated by being soft). Some feldspar laths and black spots noted.
Sample No. P-10143 (KB-158) core from 4230' to 4233' (Cont.)

2. Microscopic determination:

   Essential minerals:

   1) Plagioclase feldspars - showing kaolinitic alteration. Fresh feldspars show a = 1.555 = 1.57, which indicates labradorite.

   2) Augite - showing extreme chloritic alteration.

   3. Determination: an altered basalt

III. Sample No. P-10144 (KB-159) core from 4190' to 4195'

1. Macaeromic description:

   A dark gray to black fine-grained igneous rock with small feldspar laths in an aphanitic groundmass. On weathered surface the feldspar laths stand out to present a porphyritic-like texture.

2. Microscopic determination:

   Essential minerals:

   1) Plagioclase feldspars: n = 1.555 = 1.57, labradorite

   2) Augite

   3) Volcanic glass

3. Determination: Basalt

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