

July 27, 1950

Petrographic Report

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

From: Baker office for C. M. Chrisley, Idaho-Oregon Production Company,  
Box 247, Vale, Oregon.

Wanted: Identification

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

1. Megascopic description:

A black aphanitic igneous rock

2. Microscopic determination:

Essential minerals:

1) Plagioclase feldspar - extinction angle on sections normal to  
O10 range from  $28^{\circ}$  to  $34^{\circ}$  indicate bytownite

2) Augite

3) Volcanic glass (minor)

3. Determination: Basalt

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

1. Megascopic 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  $n = 1.555 \quad 1.57$ , 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. Macroscopic 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:  $n = 1.555 \quad 1.57$ , labradorite
- 2) Augite
- 3) Volcanic glass

3. Determination: Basalt

David White  
Geologist