

MASSEY - DANA FACIES

① TUFF BRECCIA - HETEROGENEOUS FRAGMENTS

- COLOR VARIES LIGHT GREY TO A CLEAR LIGHT GREEN.

- MAJORITY COMPOSED OF 70% ANGULAR FRAGS. OF LAPILLI SIZE (4-32 MM) IN A FINELY COMMUNITED MATRIX.

- RANDOM DISTRIBUTION OF LARGE BLOCKS 1'-20' IN DIAMETER. THESE ARE DOMINANTLY BASALTIC. SOME ARE FINELY BANDED RHYOLITE.

MIXED WITH THE TUFF BRECCIAS ARE PURPLISH GREY FELDSPAR PORPHYRIES

WITH 10-20% PLAG. PHENOS 1-2 MM

ALSO BUFF + RUSTY WEATHERING

LIGHT GREY RHYOLITES - SOME FINELY

BANDED. THESE ROCKS OCCUR AS

DIKES, SILLS +/OR FLOWS.

② BASALT - DARK BROWN TO BLACK APHANTIC

- WEATHERS TO A MIDDLE SHADE OF GREY-BROWN.

③ BASALTIC BRECCIAS

- VARICOLORED ROCK IN DARK SHADES OF RED, BROWN, PURPLE OR GREEN.

- FRAGS GENERALLY UNDER 2"-3"

- SOME HAVE MIX OF ACID FRAGS

- MOST HAVE AMYGDALOIDS WITH CHALCITE FILLED AMYGDULES.

NOTE MUCH OF THE DANA HAS BEEN METAMORPHOSED BY INTRUSIVES SO THAT CHLORITE AND EPIDOTE HAS OBSCURED RELATIONS.

④ RHYOLITES

- DARK TO LIGHT GREY WHEN FRESH.
- WEATHER LIGHT BUFF TO GREY.
- SOME WELL BANDED
- VARIABLY PORPHYRITIC - MAINLY FELDSPAR

⑤ RHYOLITE TUFFS

- APPARENTLY WELDED ASH FLOWS
- WHITE TO BUFF WEATHERING
- SPHERULITIC ADHANTIC
- INTERBEDDED WITH LAPILLI IGNIMBRITES.