

# 10026

Sample 10026 is a sub-angular, grey microbreccia. The sample originally weighed 9gm, and measured 2.5X2X1.5cm. Sample was returned in the Contingency Sample bag.

BINOCULAR DESCRIPTION BY: Kramer and Schwarz DATE: 10-6-75

ROCK TYPE: Microbreccia SAMPLE: 10026,10 WEIGHT: 8.47gm

COLOR: Grey DIMENSIONS: 2.5 x 2 x 1.5 cm

SHAPE: Sub-angular/sub-rounded; a faint layering can be observed parallel to the flat surface (PET).

COHERENCE: Intergranular – coherent  
Fracturing – absent; two sets of faint fine fractures best seen on flat surfaces (PET).

FABRIC/TEXTURE: Anisotropic/Microbreccia

VARIABILITY: Homogeneous

SURFACE: Irregular

ZAP PITS: Glass-lined, approximately 10 pits/cm<sup>2</sup>

CAVITIES: Absent

COMPONENT	COLOR	% OF ROCK	SHAPE	SIZE (MM)	
				DOM.	RANGE
Matrix	Grey	90%	-----	-----	-----
White Clast <sub>1</sub>	White	5%	Angular	.5mm	.25-1mm
Salt & Pepper	Blk. & White	3%	Angular	.5mm	.5-1 mm
Basalt Clast <sub>2</sub>	Lt. Grey	2%	Angular	.4mm	-----

- 1) Plagioclase (crushed).
- 2) Remains of basalt clast, on edge of E<sub>1</sub> face (fresh surface).

### SPECIAL FEATURE:

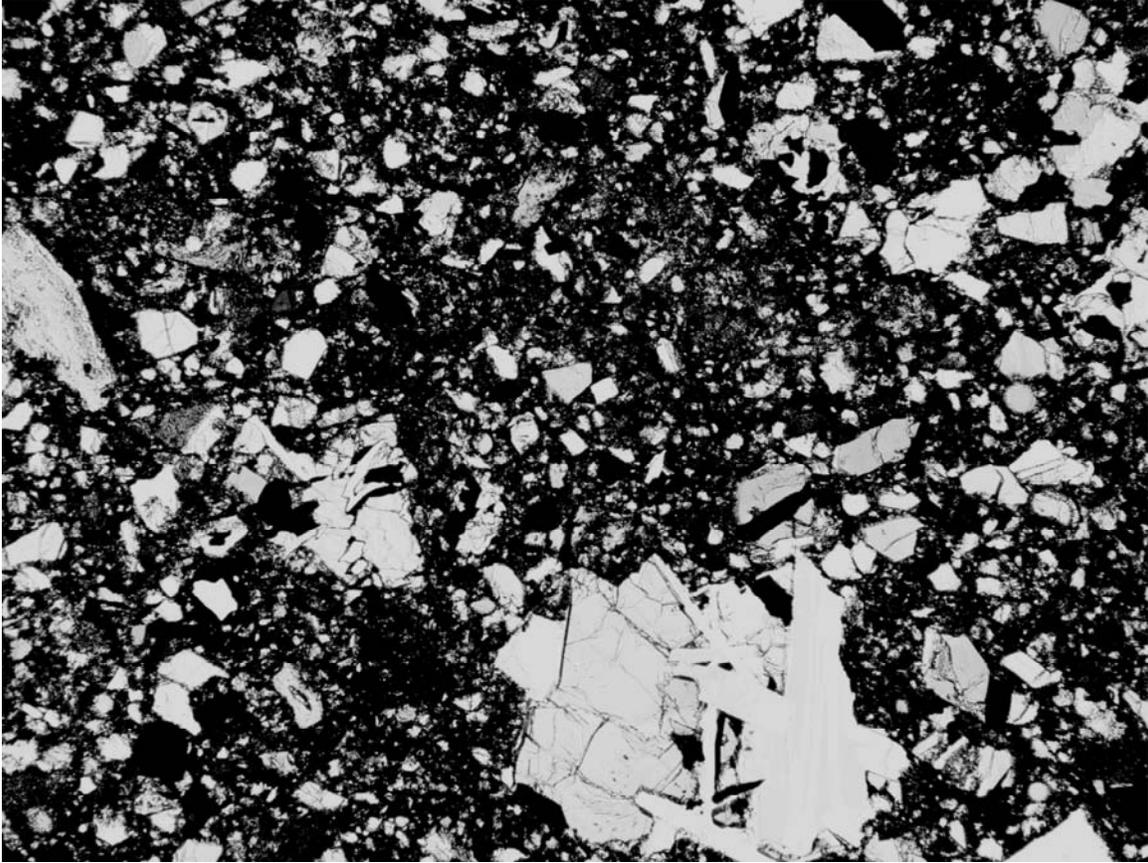
Color of pyroxene varies from light orange-brown crushed pyroxene to red-dark brown individual crystals to brown crystals associated with plagioclase clasts.



10026,0 Original PET Photo S-69-46078



10026,10 S-75-32595



SECTION: 10026, 17      Width of Field: 1.39mm plane light    S-76-26860

THIN SECTION DESCRIPTION    BY: Walton      DATE: 6/24/76

SUMMARY: Highly devitrified typical breccia with a relatively high percentage of mineral clasts. This section is light in color due to the high number of the mineral clasts and the lower percentage of matrix.

Matrix 47% of Rock

<u>Phase</u>	<u>% Section</u>	<u>Shape</u>	<u>Size (mm)</u>	<u>Comments</u>
Lt. Brown	100%	-----	< 0.001	Discontinuous; high glass content; large amount of devitrification.

Mineral Clasts 30% of Rock

<u>Phase</u>	<u>Relative Abundance</u>	<u>Shape</u>	<u>Size (mm)</u>
Pyroxene <sub>1</sub>	Very abundant	Angular to irregular	0.001-0.3
Plagioclase <sub>2</sub>	Abundant	Blocky to irregular	0.001-0.2
Opauques <sub>3</sub>	Moderate	Blocky to irregular	0.001-0.4

- 1) Many extinctions; highly fractured
- 2) Sharp twin planes to nearly glass

3) High percentage in matrix; some in clasts.

Lithic Clasts 18% of Rock

<u>Type</u>	<u>Relative Abundance</u>	<u>Shape</u>	<u>Size (mm)</u>
Small	Very abundant	Rounded to irregular	0.001-1.0
Large <sub>4</sub>	Five present	Rounded to irregular	>1.0

- 1) a. Coarse-grained basalt consisting of pyroxene, plagioclase and ilmenite.
- b. Fine-grained basalt consisting of pyroxene, plagioclase and ilmenite.
- c. Coarse-grained basalt consisting of pyroxene, plagioclase and ilmenite.
- d. Coarse-grained basalt consisting of pyroxene, plagioclase, and ilmenite.
- e. Fine-grained glass-rich matrix hosting crystal fragments and rock fragments.

Glass Clasts 5% of Rock

<u>Type</u>	<u>Relative Abundance</u>	<u>Shape</u>	<u>Size(mm)</u>
Yellow-orange <sub>5</sub>	Very abundant	Spherical to angular	0.001-1.2
Colorless <sub>6</sub>	Moderate	Angular	0.001-0.5

- 2) One yellow sphere 1.2mm in diameter; most are only partial spheres; few shards present.
- 3) All shards, no spheres; some bubbles.

HISTORY AND PRESENT STATUS OF SAMPLES – 6/24/76

10026 was removed from the Contingency Sample bag in PCTL. The sample was later split in RSPL and was re-examined in RSPL. There are no pristine samples remaining.

PRISTINE SAMPLES:

None

RETURNED SAMPLES:

10 8.46 gm Piece. Pits on five faces.

NO CHEMICAL ANALYSES OR AGE DATES.