151-912A-7H-7 (Piece Dropstone, 60–64 cm) OBSERVER: LLD WHERE SAMPLED: South Yermak Plateau
ROCK NAME: Metasedimentary rock (semi-schist?).
GRAINSIZE: Very fine-grained.
TEXTURE: Foliated, anastomosing, no slaty cleavage. 2–3 foliations.

PORPHYROBLASTS:

| MINERALS | VOl. % | SIZE | MORPHOLOGY | COMMENTS |
|---|---|---|---|---|
| Quartz | 30 | | Xenoblastic. | |
| White mica | 5 | 0.04–0.20 | Wispy. | |
| Opaque mineral | <1 | 0.6 | | |

GROUNDMASS

| MINERALS | VOL. % | SIZE | MORPHOLOGY | COMMENTS |
|---|---|---|---|---|
| Opaque minerals | 2 | <0.01 | Equant. | Cluster and form chains. |
| Titanite | 1–2 | <0.01 | Granular. | |
| Quartz | | <0.01 | Xenoblastic. | |
| Feldspar | 55 | <0.01 | Xenoblastic. | 55% quartz and feldspar. |
| White mica | 5 | 0.02 | | |

ADDITIONAL COMMENTS: Quartz pods have 120° grain boundaries. Matrix is a felsic mat and the only way to tell feldspar's presence is by relief differences, which are noticeable."

151-912A-11X-1 (Piece Dropstone, 17–18 cm) OBSERVER:LLD WHERE SAMPLED: South Yermak Plateau
ROCK NAME: Deformed, coarse-grained granite (metamorphosed).
GRAINSIZE: 0.02–1.5 cm
TEXTURE: None.

MINERALOGY

| MINERALS | PRES % | ORIG % | SIZE (mm) | COMP | MORPHOLOGY | COMMENTS |
|---|---|---|---|---|---|---|
| Quartz | 55 | | 0.02–11.0 | | | Undulatory extinction. |
| Plagioclase | 10 | | 0.02–7.0 | | | |
| Altered mica | <1 | | 0.02–0.10 | | | Chlorite? |
| Perthite | 33 | | 0.02–11.0 | | | Dusty with alteration products. |
| Iron-oxide minerals | <1 | | 0.01–0.3 | | | Along plagioclase cleavage and twin planes. |

VESICLES, CAVITIES, VOIDS, VEINS, AND FRACTURES

| TYPE | % | SIZE | LOCATION | FILLING | SHAPE/ ORIENTATION | COMMENTS |
|---|---|---|---|---|---|---|
| Vein | | | Within grains | Quartz | | Metamorphic "sweat" veins; remobilized? |

SECONDARY MINERALS

| MINERALS | % | REPLACEMENT/FILL |
|---|---|---|
| Chlorite/vermiculite? | | Biotite |

ADDITIONAL COMMENTS: Recrystallization along grain boundaries and within quartz.