

| GEOLOGICAL DESCRIPTION | SAMPLE NUMBER | RADIO-ACTIVITY IN CPS BGS-ISL | GEOCHEMISTRY AND ASSAY | | | | % RECOV | GEOLOGY | STRUCTURE | | HOLE DEPTH (FEET) | MOUNT SOPRIS GAMMA PROBE LOG |
|---|---------------|-------------------------------|---------------------------------------|--------|--------|--------|---------|---------|--------------------------|--------------------|-------------------|------------------------------|
| | | | % U ₃ O ₈ ppm U | ppm Cu | ppm Mo | ppm Ag | | | L to core | L to core | | |
| <p>PSEUDOLEUCITE TINGUAITE: white, subhedral to euhedral pseudoleucite phenocrysts up to 15 mm across and white tabular orthoclase phenocrysts up to 8 mm long in a medium grey, aphanitic groundmass. Relatively massive, fracture density 2-3/ft. Fractures normally open, where closed usually filled with orthoclase and/or calcite. Fractures at high angles to the core axis are usually open, whereas shallow angle fractures tend to be closed.</p> <p>8.6'-9.0': small fracture zone is weakly stained with hematite and contains minor molybdenite. An unidentified, non-magnetic black mineral is present in minor amounts surrounded by a hematite halo.</p> <p>9.0'-15.0': pseudoleucite tinguaites, fracture density 2-5/ft with minor hematite stains on some fractures.</p> <p>15.0'-16.4': 1 mm wide fracture crossing pseudoleucite tinguaites at 10° is filled with orthoclase and goethite coated, euhedral pyrite.</p> <p>21.0'-22.4': gradational contact between pseudoleucite tinguaites and a finer grained tinguaites phase.</p> <p>FINE GRAINED TINGUAITE: orthoclase phenocrysts > pseudoleucite phenocrysts, phenocrysts rarely exceed 3 mm in length, in a dark grey to black groundmass. Fracture density 3 to 9/ ft normally. Commonly exhibits weak to moderate foliation at 60-80° to core axis. Compositional banding, notably of phenocryst rich versus phenocryst deficient bands, parallel foliation. Disseminated magnetite is locally present.</p> <p>27.3': 1 mm 45° fracture filled with drusy orthoclase, purple fluorite and goethite coated pyrite.</p> | H46300 | BKGD | <10 | 6 | 3 | 0.6 | 100% | | 10° to 20° 20° to 90° | 2-3/ft | 5 | |
| | H46301 | | 10 | 6 | 5 | 0.2 | | | 10° to 20° 20° to 80° | 2-5/ft | 10 | |
| <p>36.6': pyrite and very black purple fluorite coating <1 mm, 60° fracture.</p> <p>38.4'-39.0': orthoclase > calcite > pyrite > purple fluorite coating 1 mm closed fracture cutting tinguaites at 20°, tinguaites slightly vuggy adjacent to fracture.</p> <p>41.7'-42.7': 3, 1 cm wide, hematite stained fracture zones cutting fine grained tinguaites at 50° to 60°, associated with a non-hematitic, 1 cm wide, black tinguaites (?) filled fracture zone which parallels the other 3.</p> | H46302 | | 10 | 14 | 2 | 0.2 | | | 5° to 20° 20° to 80° | 3-7/ft | 25 | |
| | H46303 | | <10 | 12 | 2 | 0.4 | | | | | 30 | |
| <p>42.7'-49.0': a series of weakly goethite and hematite stained fractures cut the weakly foliated and banded, fine grained tinguaites at 5-20°, most are less than 1 mm in diameter. A 1 cm fracture between 46.5' and 47.5' contains minor pyrite > galena with calcite gangue.</p> <p>49.0'-58.5': fractures at 20-30° and 80° are coated with minor pyrite. Between 51.6' and 55.4' a 1 mm wide closed fracture, filled with pyrite > calcite parallels the core axis.</p> | H46304 | | 10 | 20 | 1 | 1.2 | | | | | 35 | |
| | H46305 | | 20 | 16 | 1 | 0.8 | | | | | 40 | |
| <p>58.7'-59.3': 1/2 mm, closed fracture cutting fine grained tinguaites at 10° is filled with pyrite, goethite, and calcite.</p> <p>59.3'-63.0': PSEUDOLEUCITE TINGUAITE: with phenocrysts up to 1 cm in diameter. Probably a xenolith. Fracture density 3-10/ft.</p> <p>63.0'-70.7': FINE GRAINED TINGUAITE: is cut by a fracture zone (6-50 ft). Most fractures <1/2 mm wide, cut core at 20-30°. Fractures coated with chlorite > calcite, locally pyrite, goethite and/or hematite. Some bleaching of tinguaites adjacent to fractures. Tinguaites is not foliated.</p> | H46306 | | 20 | 12 | 4 | 0.2 | | | 10° to 30° 20° to 30° | 3-10/ft 6-50/ft | 45 | |
| | | | | | | | | | | | 50 | |
| | | | | | | | 80% | | | | 55 | |
| | | | | | | | 40% | | | | 60 | |
| | | | | | | | 100% | | | | 65 | |
| | | | | | | | | | | | 70 | |
| | | | | | | | | | | | 75 | |

PROJECT UVJ HOLE TH1 LOCATION ZONE T1 CORE SIZE B2 STARTED 11/07/79 FINISHED 13/07/79 PAGE 2 OF 3
CLAIM GROUP TOMBSTONE LENGTH 132' DIP -45° AZIMUTH 270° COLLAR ELEVATION 5400' DRILLED BY CARON LOGGED BY EATON

| GEOLOGICAL DESCRIPTION | SAMPLE NUMBER | RADIO-ACTIVITY IN CPS BGS-ISL | GEOCHEMISTRY AND ASSAY | | | | % RECOV | GEOLOGY | STRUCTURE | | HOLE DEPTH (FEET) | MOUNT SOPRIS GAMMA PROBE LOG |
|--|---------------|-------------------------------|--|--------|--------|--------|---------|---------|------------|--------|-------------------|------------------------------|
| | | | (% U ₃ O ₈) ppm U | ppm Cu | ppm Mn | ppm Ag | | | L to core | to 1' | | |
| 74.0'-79.0': fine grained, non-foliated tinguaitite, moderate fracture density 3-9/ft, most fractures 1 mm wide but one at 75' is 10 mm wide. Two fracture sets: 1 at 50°, generally open and the other at 15°-30° filled with chlorite>calcite>goethite. | H46307 | | <10 | 12 | 5 | 0.4 | | | 15° to 30° | 3-9/1' | 80 | |
| 79.0'-92.0': fine grained, relatively massive, weakly banded tinguaitite; a few pseudo-leucite phenocrysts up to 7 mm in diameter but orthoclase>pseudoleucite. Orthoclase rarely exceeds 3 mm in length. 6 fractures/ft. At 86.0' pyrite in fracture; most others contain only calcite and chlorite. | | BKGD | | | | | 100% | | 15° to 30° | 6/1' | 85 | |
| | H46308 | | <10 | 6 | 4 | 0.2 | | | 50° to 80° | | 90 | |
| 92.0'-96.0': fine grained tinguaitite with chlorite>calcite>pyrite coating fractures. Also pyrite with biotite enclosed in pseudoleucite phenocrysts between 92.8' and 93.6'. | | 20/BKGD | | | | | 70% | | | | 95 | |
| INTERMEDIATE TINGUAITE: medium grey tinguaitite with abundant phenocrysts in the 5-8 mm range. Pseudoleucite ± orthoclase. Relatively massive with a fracture density of 3/ft. Most fractures 0-30° to core axis and filled with chlorite ± orthoclase, calcite, goethite, and pyrite. Minor calcite and magnetite are disseminated in the groundmass. | H46309 | | <10 | 8 | 3 | 0.2 | | | | | 100 | |
| | | BKGD | | | | | 100% | | | | 105 | |
| | H46310 | | 30 | 8 | 5 | 0.6 | | | | | 110 | |
| | | | | | | | | | | | 115 | |
| | H46311 | 20/BKGD | 20 | 10 | 6 | 0.2 | 80% | | 0° to 30° | 3/1' | 120 | |
| Still intermediate tinguaitite as described above except that magnetite now comprises 1-3% of core. | | | | | | | | | | | 125 | |
| | H46312 | | <10 | 8 | 2 | 0.4 | 100% | | | | 130 | |
| 133.0'-133.6': small fracture cutting core axis at 25°, contains chlorite and minor hematite. Some pitting adjacent to fracture. Surrounding intermediate tinguaitite still strongly magnetic. | | 40/BKGD | | | | | | | | | 135 | |
| 135.0'-135.5': 1 mm wide, 20° fracture contains strong hematite stain, an unidentified black mineral, and calcite. Surrounded by a 50 mm wide envelope of weakly hematized intermediate tinguaitite. | H46313 | | 30 | 12 | 2 | 0.6 | 60% | | | | 140 | |
| | | | | | | | | | | | 145 | |
| Still intermediate tinguaitite with a fracture density of 3/ft. Contains 1-2% magnetite. Fractures generally 20-30° to core axis. Calcite most common fracture filling material. | | BKGD | | | | | 100% | | | | 150 | |
| | H48198 | | <10 | 12 | 5 | 0.2 | | | | | | |

PROJECT UJV HOLE TH1 LOCATION ZONE T1 CORE SIZE BQ STARTED 11/07/79 FINISHED 13/07/79 PAGE 3 OF 3
CLAIM GROUP TOMBSTONE LENGTH 172' DIP -45° AZIMUTH 70° COLLAR ELEVATION 5400' DRILLED BY CARON LOGGED BY EATON

[illegible]