

PROJECT UJV HOLE TH7 LOCATION Zone 53 CORE SIZE BQ STARTED 10/08/79 FINISHED 11/08/79 PAGE 1 OF 4
CLAIM GROUP TOMBSTONE LENGTH 297' DIP -50° AZIMUTH 000° COLLAR ELEVATION 5090' DRILLED BY CARON LOGGED BY EATON

GEOLOGICAL DESCRIPTION	SAMPLE NUMBER	RADIO-ACTIVITY IN CPS BGS-1SL	GEOCHEMISTRY AND ASSAY				% RECOV	GEOLOGY	STRUCTURE % TO CORE	HOLE DEPTH (FEET)	MOUNT SOPRIS GAMMA PROBE LOG
			(% U ₂ O ₈) ppm U	ppm Cu							
OVERBURDEN: syenite and tinguaites boulders mixed with soil; both glacial and talus material present.		20/BKGD					15			5	
MIXED TINGUAITE: lenses of normal pseudoleucite tinguaites are cut by sheared zones of foliated, brecciated and/or altered tinguaites, described in detail below.	H46245		97				100		20° 1/1'	10	
HIGHLY FRACTURED, ALTERED AND LIMONITE STAINED MIXED TINGUAITE: fracture density 5-30/fc, most at 5-20° to core axis. The pl phenocrysts have been more affected by alteration than the groundmass as a rule. The phenocrysts are typically tan or brown due to limonite flooding or pale green to milky white due to sericite alteration. The groundmass is medium grey except where fracture density is greatest; there it is tan to brown due to limonite and soft, suggesting clay or sericite alteration. The strongest fractures have 1/2 to 2mm coats of yellow brown limonite (goethite > jarosite). Traces of residual pyrite or pyrrhotite are found both in the groundmass and on fractures. Sericite is common on stronger fractures. The fractured and altered rocks are weakly radioactive. Alteration appears to be hypogene although it may be supergene in part.	H46246		41				95		5-30° 1/1'	15	
9.2'-13.0': MIXED TINGUAITE: lenses of normal plt are surrounded by sheared tinguaites. The plt to sheared tinguaites ratio is ~3:1. The shears occur at irregular intervals, average ~10 cm between shears and have ambiguous orientations to the core axis although there is a suggestion that a 30° orientation dominates. The normal plt contains white, euhedral to subhedral, 2mm-15mm (6mm average), pl phenocrysts comprising 25-45% of the rock, and white, stubby to prismatic, subhedral to euhedral, 1mm-10mm (3mm average) orthoclase phenocrysts, comprising <5% of the rock, in a medium grey, aphanitic groundmass. The large pl phenocrysts are commonly cracked. The sheared tinguaites is generally weakly foliated. It consists of 1-4mm fragments altered to biotite. Sulphides are rare in both normal and sheared tinguaites. The fracture density is low for both rock types. Most fractures are open with weak chlorite and limonite coatings; a few 20° fractures are filled with white calcite.	H46247		25						20° 23/1'	20	
ALTERED MIXED TINGUAITE: starts as 3 cm wide, tan, limonite flooded and pale green sericitized alteration envelopes around chloritized open fractures (to ~31.0'). Alteration principally affects phenocrysts, then grades into pervasive pale green to olive sericite alteration affecting both the groundmass and phenocrysts. (31.0'-41.7'). Traces of pyrite disseminated through rock. Moderate to strong limonite staining and coating on closed fractures with 5mm limonite flooding of adjacent wall rock. Chlorite > sericite on open fractures. Phenocrysts still highly visible despite alteration.	H46248		62						20° 1-2/1'	25	
	H46249		17						25° 1-3/1'	30	
	H46250		22						20° 3-4/1'	35	
	H46251	BKGD	19						50° 1-4/1'	40	
41.7' SHARP 50° CONTACT: altered mixed tinguaites to MAFIC RICH SYENITE DYKE: 41.7'-44.5': chill margin (?) fine grained, slightly porphyritic, grey-green syenite. Mafic very fine grained, mostly interstitial to coarser grained, grey feldspar crystals. Feldspar phenocrysts up to 1 cm long show greenish tint, sericite alteration. Pyrrhotite, disseminated, in blebs, and on fractures, comprises 1-2% of the rock. Sulphides closely related to biotite and calcite. Calcite estimated at 2% of whole rock and commonly fills <1mm irregular fractures running subparallel to the core axis.	H37571		43						20° 1-2/1'	45	
44.5'-51.8': fine to medium grained, porphyritic, mafic rich syenite with prismatic, grey orthoclase phenocrysts 7-15mm long and chloritized dark green pyroxene phenocrysts 1-4mm long in a finer grey-green groundmass. Mafics comprise 20-30% of the rock. Fractures are commonly chloritized, limonite is rare. Calcite occurs in minor cracks and is disseminated through the groundmass, still 2-4% of the rock. No chill margin on the lower dyke contact.	H37572		16.5						20° 1-2/1'	50	
51.8': SHARP 50° CONTACT: 51.8'-68.3': MIXED TINGUAITE: as before with lenses of normal plt between shear zones of brecciated, foliated and/or altered tinguaites. Shear orientation at ~30° to core axis. Ratio of normal pseudoleucite tinguaites to foliated tinguaites is 1:1. Most pseudoleucite phenocrysts in "normal" pl tinguaites have a distinctive pinkish tint, possibly signifying zoisite alteration. Biotite is the most prevalent alteration product in the sheared tinguaites. Minor green sericitic alteration occurs as an envelope around a calcite filled fracture between 52.5 and 53.0'. 5-20°, <1mm calcite filled fractures are common. Traces of pyrite occur locally in the tinguaites groundmass. Between 54.8-55.1' a dark grey, banded mylonite zone cuts through brecciated tinguaites at 30° to core axis.	H37573		14.5						75° 1/5'	55	
	H37574		15.5						20° 1/4-1/2'	60	
	H37575		31						50° 1/2'	65	
	H37576		26							70	
68.3'-69.3': SHARP CONTACT: MAFIC RICH DYKE: as above. 69.3'-77.2': MIXED TINGUAITE: as before; below this section biotite alteration is relatively uncommon.	H37577		34						75° 1-3/1'	75	

DRILL HOLE LOG

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