

PROJECT UJV HOLE TH8 LOCATION Zone 517 CORE SIZE BQ STARTED 13/08/79 FINISHED 16/08/79 PAGE 1 OF 6
CLAIM GROUP TOMBSTONE LENGTH 397' DIP -50° AZIMUTH 000° COLLAR ELEVATION 4985' DRILLED BY CARON LOGGED BY EATON

Interval	Description	ID	Grade	Value	Scale	Notes	Depth (m)
0-3.0'	OVERBURDEN: soil, talus and highly decomposed bedrock.	H46293	BKGD	35	0.8	0	0
3.0'-10.0'	SYENITE DYKE: rusty weathering, medium to coarse grained syenite dyke containing 80-90% tan to light grey, euhedral to subeuhedral, often twinned orthoclase and 10-20% green, interstitial, chloritized mafics. Up to 1% of these mafics have been replaced by pyrrhotite. The fractures are open with moderate to strong limonite stains. The limonite has flooded the syenite adjacent to the fractures in envelopes up to 5mm wide. Minor disseminated purple fluorite is also present.	H46294	20/BKGD	36	0.8	90	5
10.0'	SHARP 60° CONTACT	H46295	40/BKGD	34	0.4	10° to 20°	10
10.0'-22.4'	SHEARED TINGUAITE: the tinguaites has been highly brecciated and weakly to moderately foliated (predominantly the mafics). It contains 1-4mm orthoclase phenocryst fragments in a medium grey groundmass however the color of the rock varies from a pinkish grey to grey-green due to weak sericitic and chloritic alteration. Most fractures are open and limonite stained. The closed fractures usually contain white to pink orthoclase + sulphides and mafics. The foliation generally cuts the core axis at 35-45°.	H46296	190/BKGD	449	1.0	60° to 70°	15
13.7'	a 1/2mm, 30° fracture is filled with pyrrhotite > arsenopyrite > chalcophyrite.	H46297	60/BKGD	41	0.1	60° to 70°	20
16.0'-16.4'	a coarse grained, 10 cm wide, strongly radioactive syenite dyke cuts the core axis at 90°. The dyke contains 90% pink to green-grey orthoclase, 7% chloritized mafics, 2 1/2% pyrite, and <1/2% shiny, hard black minerals, which are probably the source of the radioactivity. Around this dyke are a number of pink orthoclase filled fractures varying from 1/2mm to 3mm wide.	H46298		46	0.6		25
19.4'-19.5'	a group of hairline, 50° fractures contain pyrite and arsenopyrite.	H46299	70/BKGD	79	0.6		30
21.8'	a hairline, 60° fracture contains arsenopyrite and limonite.	H43146	100/BKGD	85	0.4	10° to 25°	35
22.4'	SHARP 30° CONTACT	H43147		85	0.6		40
22.4'-43.6'	SYENITE DYKE: surrounded by a 10 cm weakly sericitized and chloritized alteration envelope. The dyke is composed of 90-95% coarse grained orthoclase and 5-10% interstitial, chloritized biotite and hornblende, 1% purple fluorite and 1/4-1% disseminated sulphides, mostly pyrrhotite, often replacing or occurring with the mafics. The color of the rock varies depending upon the color of the orthoclase. Generally the upper part of the dyke is green and the lower part pink. Pink syenite occurs between 28.5-30.8' and 33.4'-43.6'. Although the orthoclase looks fresh (very hard) some of the green color may be due to sericitization. The pink syenite is a 2 MICA SYENITE containing both biotite and abundant, up to 5%, sericite. A schiller effect is present in a few of the orthoclase crystals. The fractures are usually open and are moderately to strongly coated with limonite + pyrrhotite or pyrite.	H43148	80/BKGD	102	0.4	60° to 70°	45
23.3'-23.7'	small chlorite limonite and pyrite coated fracture zone with 1/2 cm light green, sericitic alteration envelopes cuts the core axis at ~20°.	H43149	50/BKGD	14	0.1		50
27.3'-27.5'	blebs of disseminated or fracture chalcophyrite with pyrrhotite and purple fluorite near a 1mm, 20° fracture filled with pyrite.	H37621		9.0			55
28.5'	a 2-6mm band of magnetite and chloritized mafics cuts the core-axis at 60°.	H37622		16.5		0° to 20°	60
36.1'	a 10mm, white orthoclase >> purple fluorite = pyrrhotite filled fracture cuts the core axis at 60°.	H37623	BKGD	13.5		30° to 45°	65
39.5'-39.6'	a 2 cm wide coarse grained orthoclase, chloritized mafic, purple fluorite and minor black mineral dykelet cuts the core axis at 45°.	H43156		14		60° to 70°	70
43.5'	another 4-8 mm wide band of magnetite and chloritized mafics cuts the core axis at 30°.	H37624		33			
43.6'	SHARP 35° CONTACT with no alteration of adjacent tinguaites.	H37625		7.5			
43.6'-49.2'	SHEARED TINGUAITE: as previously described except that biotite alteration is rare leaving the tinguaites with a salt and pepper color. Brecciation still dominates texturally with a weak 35° foliation in places. Sulphides are rare.						
45.7'	a 2 mm wide, fine grained syenite cuts tinguaites at 80° to core axis.						
49.2'-71.7'	SERICITIZED SHEARED TINGUAITE: as previously described except rock has been pervasively altered to sericite producing a mottled to uniform pale green color. Appears to be related to a series of sulphide bearing fractures described below. In addition to the sericitization, much of the biotite has gone to chlorite. Most open fractures are coated with chlorite and/or limonite. The closed fractures contain chlorite + pyrrhotite, and other sulphides.						
50.5'-50.9'	a 3 cm wide intensely fractured and altered zone cutting the core axis at 20° contains abundant chlorite > pyrrhotite > dolomite > pyrite > a dark grey mineral with a brown streak (sphalerite? wolframite?) > chalcophyrite > arsenopyrite. Very heavy rock.						
52.3'-52.7'	a 2mm, 10° fracture contains arsenopyrite > pyrite.						
53.5'-53.8'	a 8 mm white orthoclase dykelet cuts the core axis at 20°.						
57.0'-57.6'	a 1mm, 10° fracture is filled with pyrite.						
58.4'-61.4'	a fine grained, leucocratic, pale green syenite dyke cuts the core axis at 30°. Mafics are altered to sericite. Rock contains 1/4% pyrrhotite. A 2 cm wide zone of 20° fractures at 58.8'-62.2' contains abundant pyrite.						

DRILL HOLE LOG

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CLAIM GROUP TOMBSTONE LENGTH 397' DIP -50° AZIMUTH 000° COLLAR ELEVATION 4185' DRILLED BY CARON LOGGED BY EATON

GEOLOGICAL DESCRIPTION	SAMPLE NUMBER	RADIO-ACTIVITY IN CPS BGS-ISL	GEOCHEMISTRY AND ASSAY				% RECOV	GEOLOGY	STRUCTURE L to core	HOLE DEPTH (FEET)	MOUNT SOPRIS GAMMA PROBE LOG	
			1% U ₂ O ₈ ppm U	ppm Cu								
the pl phenocrysts. The sericitization is related to chlorite and arsenopyrite bearing 0-20° fractures. Aside from these bands alteration is slight or absent. Most fractures are usually closed and are filled with white orthoclase rich syenite. A number of 1-4 cm wide leucocratic syenite dykes cut the tinguaita. Some of these dykes are conformable with the tinguaita foliation while others cut it. 306.2' SHARP 45° CONTACT 306.2'-316.0': SYENITE DYKE: medium to coarse grained, grey to pink, in part slightly porphyritic syenite composed of 90% orthoclase, some exhibiting a schiller effect, 9% interstitial mafics and 1% pyrite, disseminated and on cracks. Where pink orthoclase is found the rocks generally contain 1-2% white sericite after orthoclase. Pale green sericite alteration halos surround some fractures. 307.8': an irregular 1-2 cm pegmatite dyke contains a green fibrous amphibole, orthoclase, magnetite and minor wolframite? sphalerite? 309.0': an 8mm pegmatite dyke containing 60% orthoclase, 35% smoky quartz and 5% green mafics cuts the core axis at 30°. 314.2'-314.5': a 1 cm wide pegmatitic dyke contains 40% orthoclase, 40% pale green sericite, 10% pyrrhotite, and 10% chlorite and a trace of chalcopyrite. 316.0' SHARP 60° CONTACT 316.0'-321.8': MIXED TINGUAITE: as previously described except from 319.5-321.8' a sericitized alteration envelope surrounds a syenite dyke. Between 320.3' and 320.8' is a syenite dyke as occurs between 306.2' and 316.0'. 321.8': POORLY DEFINED CONTACT 321.8': SYENITE DYKE: while the dyke appears to be highly variable based on color it was in fact relatively uniform prior to intense sericitic alteration associated with a mineralizing event. The fresh rocks are a pinkish-grey, medium to coarse grained syenite similar to the 306.3-316.0' dyke. Approximately 20% of the dyke is fresh. The remainder of the rock has been weakly to intensely altered to pale green sericite accompanied by arsenopyrite > chalcopyrite > pyrite > purple fluorite. Disseminated pyrrhotite and arsenopyrite comprise 1-5% of the entire dyke. The principal mineralized bands are described below. 325.0'-328.2': Highly sericitized breccia zone cutting the core axis at 45°? contains 20%-30% subhedral to euhedral arsenopyrite and minor purple fluorite between 325.2-326.1' and 10% arsenopyrite, 1% chalcopyrite, 1% smoky quartz and minor purple fluorite between 327.5-327.8'. 330.8': smoky quartz and pyrrhotite common. 334.0'-334.8': a 2 mm fracture contains 25% smoky quartz, 25% arsenopyrite and 10% chalcopyrite. 335.0'-341.5': a broad zone contains numerous patches of intense alteration usually containing disseminated and fracture chalcopyrite > arsenopyrite > pyrite > purple fluorite < cream dolomite. The patches are generally 10-12 cm across and contain 1-5% chalcopyrite. The entire interval is estimated to contain 0.2% copper.	H48162	19/BKGD	22					0° to 20°	1-3/4'			
	H48163	BKGD	34					+	30°	1/2'	305	
	H48164		29					+	60° to 70°	1-2/4'	310	
	H48165		18					+	60°	1/1'	315	
	H48166		33					+			320	
	H48167	30/BKGD	65					+			325	
	H48168	40/BKGD	50					+			330	
	H48169		37					+	15° to 25°	1-3/4'	335	
	H48170		44					+			340	
	H46369	30/BKGD	47					+	40° to 50°	1-2/4'	345	
	H46370	45/BKGD	60					+	60° to 70°	2-3/4'	350	
	H46371	50/BKGD	50					+			355	
	H46372	60/BKGD	49					+			360	
	H46373	50/BKGD	62					+			365	
	H46374	25/BKGD	65					+			370	
367.3'-367.9': extremely intense sericitic alteration is accompanied by 1-2% chalcopyrite in blebs, 1% purple fluorite in blebs and a cream colored carbonate.								+			375	

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