

DRILL HOLE LOG

PROJECT UJV HOLE TH 16 LOCATION Zone S17 CORE SIZE BQ STARTED 16/09/79 FINISHED 19/09/79 PAGE 1 OF 7
CLAIM GROUP TOMBSTONE LENGTH 507' DIP -50° AZIMUTH 070° COLLAR ELEVATION 4853' DRILLED BY CARON LOGGED BY EATON

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PROJECT UVV HOLE TH16 LOCATION Zone 517 CORE SIZE BQ STARTED 16/09/79 FINISHED 19/09/79 PAGE 1
CLAIM GROUP TOMBSTONE LENGTH 507' DIP -50° AZIMUTH 070° COLLAR ELEVATION 4353' DRILLED BY CARON LOGGED BY EATON

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PROJECT UJV HOLE TH16 LOCATION Zoro S17 CORE SIZE B0 STARTED 11/09/79 FINISHED 19/09/79 PAGE
CLAIM GROUP TOMBSTONE LENGTH 507' DIP -50° AZIMUTH 070° COLLAR ELEVATION +353' DRILLED BY CARON LOGGED BY EATON

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PROJECT UJV HOLE TH16 LOCATION Zone 517 CORE SIZE BQ STARTED 16/09/79 FINISHED 19/09/79 PAGE 4 OF 7
CLAIM GROUP TOMBSTONE LENGTH 507' DIP -50° AZIMUTH 070° COLLAR ELEVATION 4853' 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 ₃₀₈ ppm U)	ppm Cu	ppm H ₂ O				to core	to core		
227.5': the syenite contains a few 3mm blebs of a lime green mineral, hardness about 4.	H37865		25		1			+				
	H37866	BKGD	32		1			+	30° to 40°	1/1'	230	
236.9': the syenite has been sheared and possibly mylonitized to produce a fine grained rock with bands of chlorite containing 10% pyrrhotite and minor purple fluorite. A 2mm fracture at 236.8' contains yellow-orange limonite and is weakly radioactive, possibly a uranium secondary.									40° to 50°	1-2/1'	235	
238.0'-239.0': a 7mm wide band or irregular fracture running subparallel to the core axis contains 30% pyrrhotite, 1% chalcopyrite and minor smoky (black) quartz.	H37867		44		1			+				
								+			240	
241.0'-243.2': another 7mm wide band or fracture running subparallel to the core axis contains 10-30% pyrrhotite, abundant green chlorite and mafic and up to 10% purple fluorite. Some of the narrow high angle fractures also contain purple fluorite and/or pyrrhotite.	H37868	40/BKGD	47		1			+			245	
245.4' and 246.1': a pair of 3-8mm wide fractures contain abundant chlorite, 2-3% pyrrhotite, 1% purple fluorite and minor chalcopyrite; in addition, the 246.1 fracture contains a 5mm wide bleb of a black mineral with a dark brown streak (hardness about 5) - wolframite?	H37869	10/BKGD	78		10			+			250	
246.5'-247.9': a hairline to 2mm fracture running subparallel to the core axis contains abundant pyrrhotite and purple fluorite.		20/BKGD										
252.3'-253.0': a small fracture zone at 30° to core axis contains 10% pyrrhotite, 1% chalcopyrite and minor molybdenite.	H37870		37		87			+	10° to 30°	2-5/1'	255	
255.8'-258.8': a sheared tinguaitite xenolith with 80° contacts.								+				
	H37871		9.5		1		100	+	40° to 60°	1/2'	260	
260.9'-261.4': a 15mm, 30° fracture zone contains 5% pyrrhotite, minor chalcopyrite and purple fluorite								+				
262.2': a 3mm, 60° fracture is filled with dark green chlorite, black mafics and 10% pyrrhotite.	H37872	BKGD	29		1			+			265	
262.8'-264.0': a number of hairline to 1mm fractures contain 5% pyrrhotite. Their attitudes are at both 20° and 60°.												
266.7'-267.1': a series of 2-5mm chlorite, pyrrhotite filled fractures cut the core axis at angles between 20-45°.	H37873		29		1			+			270	
267.6'-270.3': a moderately sericitized tinguaitite xenolith.								+				
267.8'-268.2': a 3mm, 20° fracture contains 60% pale purple fluorite, 39% pyrrhotite and 1% arsenopyrite.												
268.5'-269.5': a hairline fracture running subparallel to the core axis contains chlorite >> chalcopyrite >> pyrrhotite >> purple fluorite.								+				
269.5'-270.1': a 5mm wide fracture cutting the core axis at 10° contains purple fluorite >> chalcopyrite >> arsenopyrite.												
272.6' and 273.1': 2, 2mm wide 30° chlorite >> pyrrhotite filled fractures.	H37874	50/BKGD	58		155			+			275	
273.3'-273.7': an 11cm wide strongly sericitized fracture zone contains 5% pyrrhotite, 1% molybdenite throughout.												
274.5'-275.0': a series of shallow angle hairline fractures again contain pyrrhotite and molybdenite (about 20cm of 0.1% molybdenite).								+				
275.0'-275.6': trace of disseminated molybdenite.	H37875		24		79			+			280	
278.1': a 75°, 5mm wide fracture contains 5% pyrrhotite and 5% molybdenite.												
280.0'-288.0': the syenite is weakly to moderately sericitized.								+				
280.0': a 2mm wide 45° fracture contains 1% molybdenite and 10% pyrrhotite.												
281.0'-281.2': a 30° 1cm wide fracture contains 5% pyrrhotite.	H37876		22		4			+			285	
281.9'-282.0': a 25°, 1mm wide fracture contains 1% pyrrhotite and a trace of molybdenite.												
285.4'-285.6': a pair of weakly hematite stained fractures contain 10% purple fluorite and a trace of arsenopyrite.								+				
287.4'-287.6': a 6cm, possibly incompletely cored, strongly sericitized dyke? contains 1% pyrrhotite, 1% molybdenite and 1% purple fluorite with a trace of chalcopyrite.	H37877	BKGD	62		165						290	
287.9'-288.0': a 30°, 1mm wide fracture contains 3% pyrrhotite and a trace of purple fluorite and molybdenite.												
288.5'-288.7': a 30°, 1mm wide fracture contains 4% pyrrhotite and a trace of chalcopyrite and purple fluorite.												
	H37878		14.5		8				30° to 40°	1-3/1'	295	
290.8': SHAPE 70° CONTACT: with pink alteration of pl phenocrysts for 10cm from contact.									30° to 40°	1/2'		
290.8': MIXED TINGUAITITE: with a pl to sheared tinguaitite ratio of 1:2. The pl lenses consist of 30% anhedral, 2-12mm, white pl phenocrysts occasionally with minor blue feldspathoid, 1-3% 1-8mm, subhedral, white to light grey orthoclase phenocrysts, and 1% 0.5-2mm mafic phenocrysts in a medium grey groundmass. The sheared tinguaitite is weakly foliated and brecciated, mottled light and dark grey with the pl phenocrysts generally being absorbed into the groundmass. The shearing has little effect on the orthoclase phenocrysts. Weak biotite alteration is present locally. Disseminated sulphides are present in only minor amounts. Most fractures are relatively clean if open or filled with white orthoclase.	H37879		15.5		10				50° to 70°	1/2'	300	

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CLAIM GROUP TOMBSTONE LENGTH 507' DIP -50° AZIMUTH 070° COLLAR ELEVATION 4353' DRILLED BY CARON LOGGED BY EATON

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CLAIM GROUP TOMBSTONE LENGTH 507' DIP -50° AZIMUTH 070° COLLAR ELEVATION 4353' DRILLED BY CARON LOGGED BY EATON

GEOLOGICAL DESCRIPTION	SAMPLE NUMBER	RADIO-ACTIVITY IN CPS BGS-ISL	GEOCHEMISTRY AND ASSAY				% RECOV	GEOLOGY	STRUCTURE $\frac{L}{\text{to core}}$	HOLE DEPTH (FEET)	MOUNT SOPRIS	
			(% U_2O_8) ppm U	ppm Cu							GAMMA	PROBE LOG
379.0': the foliation is well developed at 40° and often results in the flattening of pl phenocrysts in the sheared tinguaitite. The plt to sheared tinguaitite ratio is a little higher than 2:3. Blue feldspathoids are common in the pl phenocrysts of the plt lenses. Fracture and disseminated sulphides are minor to rare. Most fractures are filled with white orthoclase.	H37895		2							380		
383.5' and 384.0': 2, 1mm, 20° fractures are filled with blue feldspathoids.	H37896		2							385		
	H37897		1.5							390		
	H37898		2.5							395		
392.0'-402.0': brecciation, foliation but rock is otherwise unchanged. 403.5'-403.6': a 7mm leucocratic syenite dyke cuts the core axis at 35° which is parallel to the strong foliation in the surrounding tinguaitite.	H37899		2.5							400		
408.7'-409.3': orthoclase phenocrysts are more abundant than usual in the plt comprising 5-10% of the rock.	H37900		1					0° to 20°	1/1'	405		
	H37901		1.5					30° to 40°	1 1/2'	410		
	H37902	BKGD	0.5				100	50° to 60°	1/6'	415		
411.0'-413.5': foliation in the sheared tinguaitite has flattened slightly to 25° and is best shown by the flattened pl phenocrysts. 414.3'-415.1': moderate biotite alteration of the pl phenocrysts in the sheared tinguaitite as before. The groundmass to the sheared tinguaitite is a lighter grey than in the plt. Foliation is absent in this interval.	H37903		1.5							420		
419.1-422.0': the rock contains 1-3% pyrrhotite often associated with whisps of mafics. 423.7'-423.8': a 5mm sericitized syenite dykelet cuts the core axis at 25° which is parallel to a weak foliation in the tinguaitite.	H37904		4.5							425		
427.7'-428.2': 4, 1cm long pyrrhotite rich blebs contain 25% pyrrhotite while the remainder of the rock is relatively sulphide deficient. 429.7'-430.0': a 1cm wide pyrrhotite rich band (7% of the rock) parallels a 25° contact between sheared tinguaitite and a plt lense.	H37905		3							430		
431.6'-431.7': a 30° fracture is weakly stained with limonite. The sheared tinguaitite around the fracture again contains 1-3% pyrrhotite in whisps. 431.3'-431.4': a 4mm sericitized leucocratic syenite dykelet cuts the core axis at 30°. 434.4'-434.8': a 4mm sericitized leucocratic syenite dykelet has been convolutedly folded. Its fold axes are not consistent.	H37906		6.5							435		
438.0'-438.6': moderate biotite alteration of pl phenocrysts in the sheared tinguaitite.	H37907		3.5							440		
440.0'-495.0': MIXED TINGUAITE: with a plt to sheared tinguaitite ratio of 1:3. The plt is variable in composition with 5-20%, 1-12mm, anhedral, light grey, sometimes cracked and often slightly flattened, pl phenocrysts, 1-5%, white, anhedral-subhedral, 1-8mm, orthoclase phenocrysts and 12 0.5-3mm, anhedral black mafic phenocrysts in a medium grey groundmass. The sheared tinguaitite usually has a lighter grey groundmass with only a few orthoclase fragments remaining. In the most intensely sheared portions even these orthoclase fragments become streaked out and obscured. Generally foliation ranges from weak to moderate; locally it is strong. Brecciation is weak to moderate. Biotite alteration ranges from weak to moderate in places. Disseminated sulphides are a minor component of the rock. Whispy bands of mafic are common but rarely contain sulphides over this interval. Fracture density is low. Most fractures are weakly coated with clay or filled with white orthoclase.	H37908		4.5					10° to 20°	1/4'	445		
	H37909		2					30° to 40°	1 1/2'	450		

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