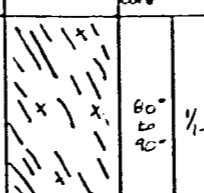
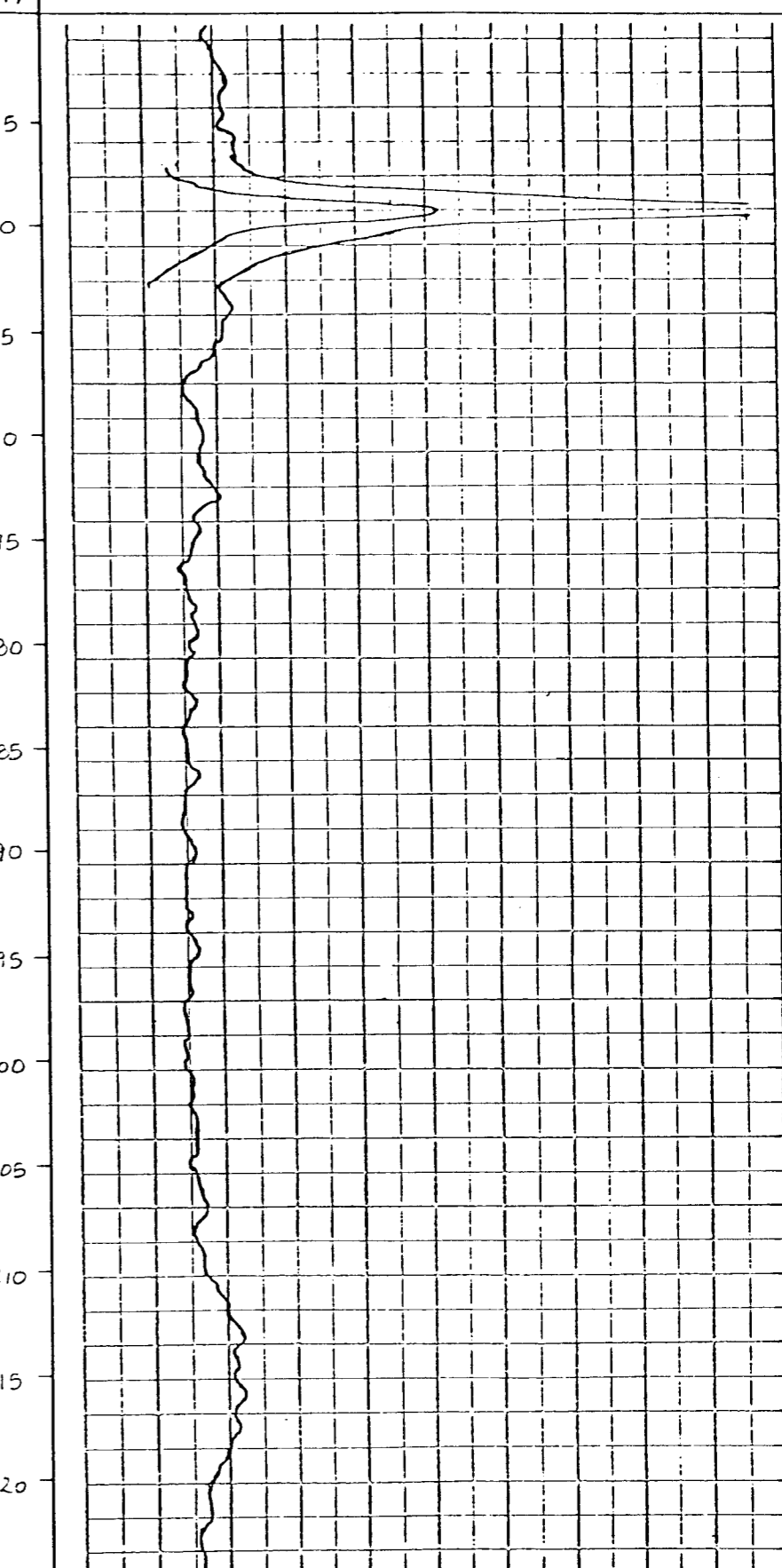
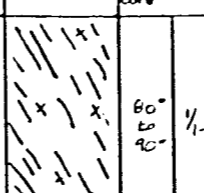
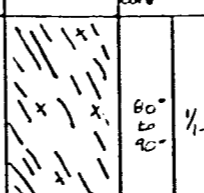


PROJECT UJV HOLE TH13 LOCATION synite contact CORE SIZE BQ STARTED 05/09/79 FINISHED 07/09/79 PAGE 1 OF 5
CLAIM GROUP TOMBSTONE LENGTH 312' DIP 50° AZIMUTH 030° COLLAR ELEVATION 5000' DRILLED BY CARON LOGGED BY EATON

GEOLOGICAL DESCRIPTION	SAMPLE NUMBER	RADIO-ACTIVITY IN CPS BGS-LSL	GEOCHEMISTRY AND ASSAY				% RECOV	GEOLOGY	STRUCTURE to core	HOLE DEPTH (FEET)	MOUNT SOPRIS GAMMA PROBE LOG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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GEOLOGICAL DESCRIPTION	SAMPLE NUMBER	RADIO-ACTIVITY IN CPS BGS-ISL	GEOCHEMISTRY AND ASSAY				% RECOV	GEOLOGY	STRUCTURE L to core	HOLE DEPTH (FEET)	MOUNT SOPRIS	
			(% U ₂ O ₈) ppm U	ppm Cu							GAMMA	PROBE LOG
<p>87.7'-109.0': <u>INTRUDED SHEARED PSEUDOLEUCITE</u>: the tinguaites have been strongly foliated to the point where most of phenocrysts have been destroyed, leaving a fine grained, medium grey tinguaites gneiss. This gneiss has then undergone either extensive intrusion by dykes composed of white orthoclase and black mafic (hornblende). These intrusives generally parallel the foliation although they do locally crosscut it. In addition to orthoclase and mafics the dykes commonly contain minor purple fluorite, pyrrhotite and an unidentified light brown mineral. Outside of these dykes the rocks rarely contain sulphides. The foliation is at 35-45° to core axis. Most fractures are open with a weak to moderate clay coating.</p> <p>104.9'-105.6': an 11cm wide, fine grained, orthoclase-mafic syenite dyke similar to the smaller dykes mentioned above, parallels the foliation at 40° to core axis.</p> <p>107.0'-107.1': an irregular 1.5-2cm pegmatite dyke cutting the core axis at 70° contains pink and grey orthoclase, a black mafic, 2% magnetite and a trace of molybdenite.</p> <p>107.8'-109.0': a 20cm wide band of sericitic and argillitic sheared tinguaites is moderately stained with hematite and yellow U oxides. It also contains a 3mm wide vein of white calcite. The upper part of the band is moderately radioactive at 160/background.</p> <p>109.0'-132.0': <u>INTRUDED SHEARED TINGUAITE</u>: as before except that the foliation varies from subparallel to 10° to the core axis and the syenite dykes are highly irregular, both paralleling and crosscutting the core axis. The mafic in the syenite is hornblende with the distinctive poikilitic textures. Occasional blebs of pyrrhotite occur in the dykes but otherwise sulphides are rare. The sheared tinguaites contains minor hematite stains. Most fractures are open with a moderate coating of calcite.</p>	H46598	BKGD	11						80			
											85	
											90	
	H46599		23				25° to 30°	1/10'	95			
	H37101	20/BKGD	55				45° to 50°	1-5/11'	100			
	H37102	40-240/BKGD	197				45° to 50°	1/2'	105			
	H37103	20/BKGD	52			100			110			
	H37104	10/BKGD	28						115			
	H37105	BKGD	27						120			
	H37106	60/BKGD	360						125			
	H37107	30/BKGD	27						130			
<p>132.0'-146.3': <u>INTRUDED SHEARED TINGUAITE</u>: the tinguaites is lighter grey than usual but is still strongly foliated and recrystallized. It is intruded by syenite dykes. The foliation is between 10-20° to core axis. This interval is distinguished from the surrounding intervals by the width and abundance of the orthoclase and hornblende dykes and by the size of the poikilitic hornblende crystals in the dyke. Approximately 25% of the interval is syenite dyke material. These dykes generally cut the tinguaites at a shallow angle and the core axis at 30-40°. They vary in width from 5mm-15cm. The hornblende crystals tend to form aggregates. Individual crystals up to 8mm across are present. The dykes also contain minor pyrrhotite with mafics and a trace of disseminated molybdenite.</p>	H37108	10/BKGD	17.5			80° to 90°	1-2/11'	135				
	H37109	20/BKGD	40			10° to 20°	1/3'	140				
	H37110		28			50° to 70°	1/2'	145				
	<p>146.3'-159.0': the syenite dykes are less common (1% of the rock) but otherwise the rock is unchanged. The foliation varies from 15-30° to core axis. Fractures are open and coated with white dolomite.</p> <p>146.7'-147.6': 2 hairline, 20° bands of pyrrhotite parallel the foliation.</p>	H37111	BKGD	12.5			80° to 90°	1/1-2'	150			

PROJECT UJV HOLE TH13 LOCATION 44°11'N 122°22'W CORE SIZE 3Q STARTED 05/09/79 FINISHED 07/09/79 PAGE 3 OF 5
CLAIM GROUP TOMBSTONE LENGTH 312' DIP 50° AZIMUTH 020° COLLAR ELEVATION 5000' DRILLED BY LAFON LOGGED BY ELSON

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	100 ppm Cu							
<p>159.0'-196.0': CHILL MARGIN SYENITE: a salt and pepper, fine grained, moderately foliated syenite. Although it is tempting to suggest that this syenite represents recrystallized tinguaitite, a 10cm xenolith of stressed tinguaitite at 164.0' hurts this argument. The fine grained syenite has been extensively intruded by the same white and black orthoclase--poikilitic hornblende dykelets that intrude the surrounding tinguaites. Over this interval the orthoclase-hornblende dykes comprise 15-25% of the total rock. The dykes cut the core axis at 25-40° while the foliation is generally 10-20°. Traces of pyrrhotite occur throughout the interval. Much of the hornblende has gone to chlorite. Between 159.0' and 160.0' the fine grained syenite is strongly radioactive--200/background and contains 1% purple fluorite, 1/4% pyrrhotite, 3% a pink-tan mineral, possibly pink mica, and 3% olive mineral, probably sericite.</p>	H37112		13					<p>80° to 90°</p>	<p>1/1-2'</p>	155	
	H37113	20/BKGD	27							160	
	H37114	40-200/BKGD	636				165				
	H37115	25/BKGD	40				170				
	H37116		22				175				
	H37117	15/BKGD	20				180				
	H37118		18.5				185				
	H37119		15.5				190				
	H37120		16.5				195				
	H37121		14.0				200				
<p>196.0'-232.5': ORTHOCLASE-HORNBLLENDE SYENITE: over this interval the orthoclase-hornblende dykes are the predominant rock while the intervening fine grained syenites comprise less than 30% of the rock and do not exceed 10cm in width. The orthoclase-hornblende syenite appears to cut the core axis at 25-35°. The orthoclase-hornblende syenite is 85-95% light grey fine-medium grained orthoclase and 5-15% black to green-brown hornblende and chlorite(?) after hornblende. Approximately 70% of the hornblende appears to have gone to chlorite. The hornblende phenocrysts dominate the rock, ranging from 2-12mm in length and exhibiting striking poikilitic texture. The rock is weakly magnetic probably due to magnetite liberated by the destruction of hornblende. Sulphides are rare. The fine grained syenites are as previously described. Their mineralogy is generally similar to the coarser dykes. The fractures are open and coated with white dolomite.</p>	H37122	BKGD	14.5					<p>70° to 80°</p>	<p>1-2 1/2'</p>	210	
	H37123		15							215	
	H37124		16.5				220				
	<p>218.0'-218.3': a 10cm long xenolith(?) of more mafic and coarser syenite containing 25% non-poikilitic hornblende and chlorite. This is similar to broad dykes found lower in the hole.</p>	H37125		20.5					<p>75° to 85°</p>	<p>1-3 1/2'</p>	225
		H37126		25							
		H37127		16							

PROJECT U37 HOLE TH13 LOCATION 4000' 1200' CORE SIZE EO STARTED 05/09/99 FINISHED 07/01/99 PAGE 4 OF 5
CLAIM GROUP TOK30T016 LENGTH 321 DIP 50° AZIMUTH 220° COLLAR ELEVATION 5000' DRILLED BY SLM LOGGED BY LAB

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
			(% U ₂ O ₈) ppm U	ppm Cu							
<p>232.5': SHARP 55° CONTACT</p> <p>232.5'-253.6': MAFIC RICH SYENITE: medium to coarse grained, slightly porphyritic, well foliated syenite composed of 75-80% light grey orthoclase, generally as ground-ess but less commonly as anhedral phenocrysts ranging from 5-12mm across, 5-10% black hornblende or pyroxene and 10-15% green chlorite after the principal mafic. The feldspars often exhibit a chalky white color suggesting weak argillic alteration. Sulphides are rare. Fractures are open and coated with dolomite.</p>	H37128	BKGD	19				+	50° to 70°	1/2'	230	
	H37129		13				+			235	
	H37130		10.5				x			240	
	H37131		11				x			245	
	H37132		11.5				x			250	
	H37133		11				x			255	
	H37134		20				+			260	
	H37135		18				+			265	
	H37136		20.5				+			270	
	H37137		19				+			275	
<p>278.5'-292.7': FINE GRAINED SYENITE: the orthoclase-hornblende syenite is still abundant however it now forms only 25-35% of the rock while the fine grained syenite makes up the remainder. Near the top of the interval the fine grained syenite is very weakly foliated, but as one goes down the interval the foliation becomes more pronounced. The orthoclase syenite dykes cut the core axis at 40-50° which is subparallel to the 30-45° angle of the foliation. The dykes vary in width from 1-10cm. Both the fine grained syenite and the orthoclase-hornblende syenite are mineralogically and texturally similar to their previous description. Fractures are very rare and open. Sulphides are rare.</p>	H37138	18				+	50° to 70°	1/4'	280		
	H37139	18				+			285		
<p>292.6': SHARP 25° CONTACT</p> <p>292.6'-293.0': MAFIC RICH DYKE: slightly more porphyritic than previously described with orthoclase phenocrysts up to 1.5cm long. Still contain 25% mafics.</p>	H37140	21.5				+	50° to 60°	5-10'	290		
	H37141	22.5				+			295		
<p>293.0'-End of Hole: INTRUDED AND SHEARED PSEUDOLEUCITE TINGUAITE: typical sheared tinguaitite, with lenticular pl phenocrysts highlighting the foliation, has been intruded by numerous 3mm-30cm orthoclase hornblende dykes. Although the dykes cut the core axis at angles ranging from 20-60° most are aligned parallel or subparallel to the 35° foliation of the plt. The dykes comprise approximately 1/2 of the rock by volume. The best preserved sheared plt is between 299.5 and 301.8'. Over most of the interval the tinguaitite is largely recrystallized so that the pl phenocrysts are only weakly recognizable. Sulphides are rare. Fractures are open and weakly coated with white dolomite.</p>	H37142	23.5				x	50° to 60°	1-2 1/2'	300		

DRILL HOLE LOG

PROJECT 111 HOLE TH 13 LOCATION S. 1000 CORE SIZE 130 STARTED 05/28/88 FINISHED 12/01/88 PAGE 5 OF 5

CLAIM GROUP TD131304E LENGTH 310' DIP 55° AZIMUTH 230° COLLAR ELEVATION 5022' DRILLED BY CABCO LOGGED BY FATON

[illegible]