Drill Hole Record

Property Mackintosh EL 2/70	District Tasmania	Hole No. QR7	
Commenced 26/6/74	Location Que River Area	Tests at with Eastman single shot	Hor. Comp.
Completed 9/7/74	Core Size NQ to 42.05m, BQ to	Corr. Dip	Vert. Comp.
Co-ordinates 5300E 7400N	completion.	True Brg.	Logged by EHS
Objective To test above massive sulphides in QR1 and immediately beneath the EM conductor axis. Also to test down dip below massive mineralisation in QR2		% Recov. 100 except as specified	Date 19/8/74

Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet

Footage From	Footage To	Description	Metres To	Metres From	Mineralisation	Sample No.	Length	Analysis
		SURVEYS: Surface minus 60°, 284° magnetic						
		48.15 " 58°, 285° "						
		82.00 " 55°, 286° "						
		129.30 " 51°, 288° "						
		174.60 " 46.5°, 290.5° "						
		225.25 " 42.5°, 292° "						
		258.60 " 39.5°, 291.5° "						
0	2.90	Bleached volcanic rubble						
2.90	4.80	Rubble of grey pyritic lithic tuff	2.90	9.82	Av 5-10% pyrite, locally 60% as coarse ramifying veins of subhedral 1mm crystals.			
4.80	9.82	Feldspar crystal lithic tuff agglomerate with quartz and carbonate veining. Brown-yellow colour imparted by oxidising pyrite and carbonate. Rock fragments are grey feldspar crystal fine lithic tuff of subangular to amoeboid shape up to 5cms in a white siliceous (silicified?) matrix. Fracturing is 45° to core axis.						
9.82	27.50	Massive sulphide with white quartz rich matrix. Where, locally sulphide content is low, the	9.82	13.02	75% pyrite, 2% chalcopyrite locally Pyrite is euhedral-subhedral and up			

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Drill Hole Record

Property	District	Hole No.		Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet
Commenced	Location	Tests at	Hor. Comp.							
Completed	Core Size	Corr. Dip	Vert. Comp.							
Co-ordinates		True Brg.	Logged by							
Objective		% Recov.	Date							

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
		host rock is a light mottled grey vitric vol-			to 1mm consistently. Crystal			
		canic (?rhyolite autobreccia) with ramifying			aggregates show rounded shapes up			
T5?		sulphide filled fractures. Appearance similar			to 5mm; crude banding, often dis-			
		to T5 of QR1, 2, 3.			rupted is at 50° to core axis.			
		Faulting at margin of sulphide: pug at 9.80			Bands are typically < 1cm of			
CORE REC.		" " 17.27			consistent grain size. Chalcopyrite			
9.70 to 12.50					occurs as discrete fine grained			
(2.80)					aggregates of < 3mm, and as fine			
Rec. 2.60					<2mm long lamellae perpendicular			
(approx.)					to the banding. Some fine chalco-			
					pyrite is disseminated through			
					pyrite.			
					This sulphide section is leached.			
					Locally 5-10% of core is cavity.			
					Leaching possibly related to coarse-			
					ness of pyrite.			
			13.02 - 14.40		85% pyrite: fine framboidal (?)			
					sulphide shows beading (locally),			
					at 45° to core axis. Chalcopyrite is			
					rare.			

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T. Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
			14.40	14.70	15% pyrite, 10% galena, 10% sphalerite 1% chalcopyrite. Bulk is 50% crypto-crystalline black mineral with silica forming a hard (>6 mhos scale) matrix. All sulphides show concentration into disrupted 1cm bands. Sphalerite also occurs finely mixed with pyrite. Galena, only, shows discrete crystal surfaces. Banding is 20-30° to core axis.			
			14.70	14.98	85% pyrite			
		15.35: Slumped bedding indicates stratigraphic top down hole. Bedding is known to be sub-vertical, hence direction of slumping.	14.98	15.55	50% pyrite, 10% galena, 15% sphalerite, 5% chalcopyrite, bulk, black mineral plus quartz as above. Slumping of ≪ 2cm beds indicates stratigraphic top is down hole, and source of slumped material from above the hole.			
			15.55	16.15	75% pyrite, 5% galena, 5% sphalerite			

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
					2%(?) chalcopyrite. Base metals are			
					concentrated into clots and disrupted			
					bands.			
			16.15	16.99	85% pyrite, cryptocrystalline			
					aggregates.			
			16.99	17.27	40% pyrite, 35% galena, 10% sphalerite			
					minor chalcopyrite.			
			17.27	27.50	50% pyrite average, commonly 80% in			
					vitric tuff-agglomerate/ medium fine			
					grey lithic tuff. Disrupted bands and			
					stringers are 50° to core axis, some			
					bands with massive sphalerite (rare)			
20.32	31.80	Mid grey medium to fine grained reworked lithic			are 15-20° to core axis. Chalcopyrite			
		tuff: contains scattered rounded fragments up			occurs as rare splashes, reaching			
		to 3cms.			3-5% between 24.25 and 25.80. Short			
		Bedding is 30° to core axis at end of unit.			intervals of low (<10%) pyrite.			
		Occasional narrow (5cm) bands of agglomerate						
		occur. Fractured core (fault?) at 31.10.						
			27.50	30.40	Typically 5% pyrite, locally 10% as			

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T. Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
					veins and stringers. Rare sphalerite			
					in veinlets.			
31.80 -	42.57	Medium grained (≤ 5mm) reworked lithic tuff, of	30.40 -	34.80	5% pyrite: disseminated euhedral			
		subangular to rounded fragments, locally			grains ≤ 1mm. random veining.			
		agglomerate. Carbonate alteration through but						
		locally intense (10%). Foliation at 45° to core	34.80 -	40-60	15% pyrite: disseminated euhedral			
		axis.			grains; veining of massive pyrite			
					(after beds?) 1-2% sphalerite,			
					average locally (<1cm bands)			
					massive; trace galena throughout.			
42.57 -	[illegible]		40.60 -	41.00	Slumped pyrite bed (85%); chalco-			
					pyrite 2%; galena, trace.			
					Thoroughly disrupted beds(?) vary			
					subparallel to core axis.			
			41.00 -	42.05	5-10% disseminated pyrite; specks			
					sphalerite			
			42.05 -	42.35	60% plus pyrite with minor sphalerite.			

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Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T. Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
42.37	-62.55	Indefinite contact. Lithic tuff to tuff agglom-	42.35	50.27	10% pyrite as stringers and dissem-			
Core Recovery		erate : angular to subangular fragments, often			inated euhedral grains	1mm,	ran-	
54.95	- 55.65	amoeboid or flattened. Carbonate alteration is			dom veining.			
(0.70)		heavy, particularly in the fragments. Matrix						
Rec. 0.45		material, where not richly pyritic, is fine-	50.27	- 50.66	70% pyrite, 5% sphalerite			
		grained tuffaceous or arkosic(?) material. A						
		sedimentary origin for this unit is possible.	50.66	- 60.80	Variably 5-25% pyrite, average around			
		Foliation and alignment of sulphide stringers			7% with specks of sphalerite. Rare			
		is 50° to core axis.			stringers (disrupted beds?) of			
					sphalerite→galena e.g. 5cm band at			54.45.
		Between 50.66 and 53.53 carbonate alteration is			25cms massive pyrite at 58.90			
		relatively low and the tuff has a grey rather			Note: native copper(?) at 53.35.			
		than yellow colour.						
			60.80	- 61.00	85% pyrite, 5% chalcopyrite, 5%			
		Broken core (faulting?) at: 54.95 to 55.65			sphalerite. Banding at 40° to core			
		57.20			axis. Pyrite crystals 1mm.			
		61.13						
			61.00	- 62.55	5-10% disseminated pyrite.			
		Below 51.30 there is a decrease in overall						
		fragment size. Rock generally appears fine						
		grained.						
		Marked break (with sulphide concentration) at						

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Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T. Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

~~Footage~~ Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
		54.55, with coarse lithic tuff present to end						
		of interval.						
		Interference: Graded sequence of water laid						
		tuffs (top is down hole)						
62.55	62.90	Buff coloured siltstone. Foliation is 45° to	62.55	62.90	No sulphide			
		core axis						
		Unit is bounded by Fault pug.						
62.90	74.48	Coarse lithic tuff. Carbonate and diffuse	62.90	65.40	5% pyrite			
		quartz veining throughout, most intense above						
		65.40. Hard light grey siliceous rock generally,	65.40	66.35	50% pyrite			
		patchy development of sericite.						
		Crude fractures at 45° to core axis. Core is	66.35	74.48	5% pyrite, scattered veins and vein			
		broken throughout but probable fault occurs at			concentrations to 50% plus , with			
		71.75.			very rare chalcopyrite, and finely			
					disseminated sphalerite (e.g.69.85)			
74.48	79.30	Fine grained feldspar crystal tuff, possibly	74.48	86.98	5% pyrite as disseminated grains and			
		dacite flow breccia. Irregular banding,			veinlets.			
		emphasised by carbonate alteration (yellow)						

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T. Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
		alternates with agglomerate texture.						
79.30	80.50	Coarse lithic tuff. Foliation is 45° to core						
		axis (alignment of fragments)						
80.50	82.77	Dominantly fine grained siliceous tuff or dacit-						
		ic(?) flow breccia. Core broken 81-84 metres						
		approx..						
82.77	115.21	Tuff agglomerate : shows carbonate alteration						
T7		declining in intensity to 86.40. Below this point	86.98	87.38	60% pyrite			
		matrix colour is blue grey; fragments are						
		greenish grey. Fragment shape varies subangular	87.38	115.21	Typically 1% pyrite as disseminated			
		to amoeboid; individual fragments are broken.			euhedral crystals < 1mm. Scattered			
		Below 108.30 the texture is agglomerate or more			short (3-10cm) zones of 50%+ pyrite			
		probably autobreccia in which fragments with			with trace galena occur, particularly			
		white alteration rims are closely packed with			between 94 and 102 metres, and below			
		corresponding margins. A mosaic effect is			112.10, where galena in pyrite zones			
		apparent. Fragments are sericitised, after a			is obvious. Here sulphide is in vein			
		glassy volcanic.			form between fragments, forming a			
					coarse stockwork, associated with			
					quartz.			

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T. Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
115.21-123.15		Moderately to strongly altered zone; carbonate-	115.21-123.15		10-15% pyrite as a fine network,			
Core Recovery		chlorite-sericite (talc?) mosaic, with coarse			also locally replacing lithic			
121.11-123.08		veining of quartz-carbonate, particularly below			fragments.			
(1.97)		120m. Cleavage is 60° to core axis.						
Rec. 0.25								
123.50-125.08		Faulting: Broken core, pug and losses between						
(1.58)		121.11 and 125.08						
Rec. 0.40								
123.15-142.74		Mid grey feldspathic autobreccia (dacite?),	123.15-128.10		Average 5% pyrite, patchily > 50%			
T7		patchily carbonated (e.g. 132.22) veined			as a network of veins associated			
		throughout with carbonate and quartz. Grey-			with quartz and carbonate, and			
		green colour indicates genetic affinity close			containing scattered galena (total			
		to unit 82.77 to 115.21			< 1%) Massive pyrite (no base metals)			
					125.96 to 126.41 (45cms)			
			128.10-142.74		Typically < 2% pyrite, patchy zones			
					of 15%, rare narrow (2cm) massive			
					bands.			
142.74-144.77		Fawn-grey fine grained tuff with scattered	142.74-144.77		No sulphide			
		feldspar crystals. Bedding is 55° to core axis						

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
		Fault zone (broken puggy core)						
		144.55 to 144.77						
144.77	175.90	Mid grey dacite or rhyolite agglomerate or, locally, flow banded autobreccia. Banding where present (e.g. 173m) is 60° to core axis. Colouration indicates affinity with tuff agglomerates and autobreccias above. This unit is patchily sericitised and carbonated, with sparse carbonate and diffuse quartz veining throughout. Near the top of the unit, very fine grained grey areas of silicification (?) are identical with occurrences in QR2.	144.77	200.20	5% pyrite average in veins and stringers bounding quartz-carbonate veins which occupy inter-fragment areas Some massive veins of up to 90% pyrite show erratic shapes and orientations. Between 163.00 and 168.40 pyrite veining and pyrite with chlorite attains 25-30% of the interval. 183.50 to 184.37 - 30% pyrite in a sheared sericitic carbonate host.			
175.90	200.20	Indefinite contact: Tuff agglomerate. Distinguished from above by obvious nature of fragments and variety of fragments. Below 189.00 the general fragment size has declined - coarse lithic tuff. Fragments are sericitised to varying degree, but irrespective of this, shows colours of light grey, greenish grey and dark grey to black in a steel grey matrix.						

T7

T7

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Drill Hole Record

Property	District	Hole No.		Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No. / Sheet
Commenced	Location	Tests at	Hor. Comp.						
Completed	Core Size	Corr. Dip	Vert. Comp.						
Co-ordinates		True Brg.	Logged by						
Objective		% Recov.	Date						

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
		Shapes are rounded, amoeboid to angular.						
		Occasional fragments are sulphide and/or carbonate rich. Original composition similar to unit above. Fine carbonate veining and spotting is marked below 191m.						
		Narrow 2-5cm bands of chlorite-sericite-carbonate, finely cleaved, become commoner (2 per metre) below 195m. Cleavage is 55° to core axis.						
		Faulting: Broken core 187.74 to 188.18						
		Pug (2cms) 196.20						
		Broken core 196.50						
		" " 199.40						
200.20	205.36	T1 type - Chlorite-sericite carbonate schist,	200.20	205.36	5% disseminated pyrite			
T1		after lithic tuff(?). Below 203m fine grained mid grey siliceous areas appear to be preserved zones of silicification predating the sericitisation. Sericite lenticles (up to 2mm) defining the cleavage planes are 65° to 85° to the core axis.						
		Faulting: Whole unit is strongly cleaved.						

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T. Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage From	Footage To	Metres From	Metres To	Description	Mineralisation	Sample No.	Length	Analysis
				Pug zones present at:				
				200.45 to 200.70				
				202.50 to 203.20 (intermittently)				
				204.65				
205.36	212.39	205.36	205.92	Massive sulphide zone: sericite carbonate matrix after lithic tuff.	50% pyrite, trace chalcopyrite and sphalerite, concentrated into diffuse non-continuous bands at 60° to core axis. Pyrite is << 1mm grain aggregates.			
		205.92	206.69		30% galena, 10%(?) very fine pyrite, 15% sphalerite, trace chalcopyrite. Sphalerite and pyrite occur as < 3mm subangular crystal aggregates (mud balls?) with interstitial galena (dominant) and matrix gangue. Gross texture is schistose.			
		206.69	208.38		80% pyrite, cryptocrystalline, sub-spherical aggregates c. 5mm. Inter-stitial galena, and sphalerite aggregates varies 5-10% combined. Rare flecks			

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Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
					of chalcopyrite present. Occasional			
					bands of 1cm (207.97) of massive			
					cryptocrystalline sphalerite.			
					Foliation (disrupted bedding?) 45°			
					to core axis.			
			208.38	212.39	Fine (< 3mm average) wavy laminations			
					(beds) with sulphide mud balls and			
					" boudins" in massive pyrite (10%)			
					galena (20%) and sphalerite (50%)			
					with silica, and a fine grained			
					black mineral. Sphalerite occurs as			
					massive bands, usually with admixed			
					galena visible at x10. Galena occurs			
					dominantly between sphalerite bands and shows			
					crystal surfaces to the naked eye.			
					Chalcopyrite is rare. Pyrite is commoner			
					below 211.80.			
					Bedding is ≈45° to core axis.			
					No facing data was deciphered.			
					Direction of slumping not			
					determinable.			

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim | T. Brg. | Collar Dip | Elev. | Length | Hole No. | Sheet

Footage Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
212.39	213.48	Sheared sericitised lithic tuff with pyrite pellets. Cleavage is 50° to core axis.	212.39	213.48	Pyrite 5-10% as pellets, and disrupted beds.			
213.48	213.90	Grey sericitised tuffaceous shale	213.48	213.90	No mineralisation			
213.90	214.29	Sheared sericitised lithic tuff. Foliation at 60° to core axis.	213.90	214.29	Finely banded, locally remobilised galena 10% and sphalerite 10%.			
214.29	219.46	Massive sulphide mineralisation	214.29	215.56	60% sphalerite, 10% galena, bands 1mm to 1cm. Pyrite inobvious because of fine grain of sulphides - ?10%. Bulk is ? fine black mineral. Bedding is 60-70° to core axis.			
		Note on recoveries. Several apparent gains (and one loss) may be attributable to swelling of soft core, or driller error(?) No obvious core losses.						
		212.45 to 217.10 (plus 55cms core)	215.56	216.50	Massive fine grained pyrite (95%); short intervals of massive sphalerite, galena (60% combined - viz. 216.20, 216.42)			
		217.10 to 220.15 (plus 25 " ")						
		220.15 to 223.20 (plus 20 " ")						
		223.20 to 226.25 (plus 20 " ")						
		226.25 to 228.75 (minus 50 " ")						
		228.75 to 229.95 (plus 20 " ")	216.50	219.46	Massive fine grained pyrite (90%), showing contorted banding locally. Trace sphalerite, galena.			

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet

~~Footage~~ Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
219.46	230.65	Strongly sheared sericitised lithic tuff, with numerous pyrite fragments up to 5mm typically. Banding in sulphide fragments oblique to the schistosity, and the variety of sulphide grain sizes is considered to indicate the detrital, rather than replacement nature of the pyrite This unit suggests stratigraphic top is down hole. Below 227m quartz carbonate veining is present locally intense (over 10cm intervals); some minor intervals (5cms max.) are rich in chlorite. Shearing is intense throughout. Pug zones occur at 221.19, 222.80, 223.20, 224.73, 228.00 (with quartz carbonate veining) 228.45, 229.08 (15cms), 229.95.	219.46	229.00	Pyrite 15-20%, as detrital fragments and disrupted layers. Fine stringers of sphalerite and galena are rare.			
			229.00	250.00	Short, < 10cm massive pyrite intervals become progressively commoner below 229m, discrete sulphide fragments show greater degree of remobilisation into vein networks. Ground mass sulphide becomes common in the chloritic unit. Sulphide (pyrite) averages 20%; commonly up to 60%+ over short intervals. These zones are comprised of subangular aggregates of subhedral-euhedral crystals ≤ 1mm.			
230.65	238.16	Massive chlorite-schist with carbonate veinlets and spotting. Disseminated pyrite occurs as described opposite. The chlorite appears to replace a medium to fine grained lithic tuff. Cleavage is 60° to core axis but is relatively						

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet

~~Footage~~ Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
		poor compared with sericitic units. Fracturing						
		at 60-90° to core axis is common.						
		Core very broken between 232.60 and 235.40 but						
		no major core loss.						
238.16	256.30	Indefinite contact with mid grey sericitised						
		feldspar(??) crystal fine tuff. White flecking						
		is probably carbonate alteration. Locally,						
		sericitisation has converted this rock to a T1	250.00	256.30	Pyrite typically 5% occurs as			
		type with dark green lenticles of sericite.			disseminated grains, grain clots,			
		Quartz carbonate veining is common below 248.50			bands and associated with carbonate			
		These are typically erratic in shape but			veins.			
		largest dimension is usually 45-60° to core			Between 249.43 and 255.00 rare			
		axis. Cleavage is 45° to core axis.			chalcopyrite occurs with pyrite-			
		Faults: (pug zones) 241.25, 242.39, 249.97 to			carbonate veins.			
		251.47 (intermittent pug zones indicate broad						
		fault zone.						
256.30	259.85	Pink to green sericitised pumiceous(?) tuff-	256.30	259.85	1% pyrite interstitial to rock			
		agglomerate or autobreccia			fragments.			
		Foliation is 55-60° to core axis;						
		The contact is strongly carbonate veined both						

Drill Hole Record

Property	District	Hole No.	
Commenced	Location	Tests at	Hor. Comp.
Completed	Core Size	Corr. Dip	Vert. Comp.
Co-ordinates		True Brg.	Logged by
Objective		% Recov.	Date

Claim	T. Brg.	Collar Dip	Elev.	Length	Hole No.	Sheet

~~Footage~~ Metres From	To	Description	Metres To	From	Mineralisation	Sample No.	Length	Analysis
		parallel to and perpendicular to the cleavage.						
		Core is broken and puggy between 256.27 and						
		256.80.						
		END OF HOLE						

HOLE Nº QR7 DATE 30-6-74

SAMPLE Nº	FROM (M)	TO (M)	I.W. (cm)	REMARKS	INITIAL ANALYSIS: A.C.S. Labs %Cu AAS	%Cu XRF	%Pb AAS	%Pb XRF	%Zn AAS	%Zn XRF	%Fe TIT	ppm Ag AAS	ppb Au AAS	ppm Au FIRE	CHECK LAB: INTERVAL & BULK Nº	%Cu TIT	%Pb GRAV	%Zn TIT	Δ
145415	9.75	11.02	127	Datum 9.70		4.86		0.080		0.064	33.7	205	400						
416	11.02	12.06	104	22cm core loss to 11.25		1.92		0.084		0.17	29.1	48	260						
417	12.06	12.97	91	8cm core loss to 12.50		2.11		0.038		0.052	33.5	30	170						
418	12.97	13.65	68			0.51		0.10		0.11	30.5	22	280						
419	13.65	14.34	69			0.45		0.16		0.027	33.5	15	310						
420	14.34	14.71	37			1.15		3.13		21.9	21.0	50	220						
421	14.71	14.96	25			0.61		1.19		0.96	27.9	<2	300						
422	14.96	15.62	66			1.08		7.08		17.8	17.2	76	180						
423	15.62	16.27	65	Tie in 15.65		0.91		3.03		10.4	26.7	48	190						
424	16.27	16.92	65			0.16		0.36		0.69	33.3	15	<20						
425	16.92	17.22	30			2.65		24.7		6.13	21.7	207	270						
145451	17.22	18.15	93			0.24		0.22		0.19	12.1	11	220						
452	18.15	19.19	104	Tie in 18.60		0.26		0.08		0.21	21.2	11	610						
453	19.19	19.99	80			0.12		0.039		0.74	15.1	11	140						
454	19.99	20.74	75			0.17		0.048		0.56	11.0	9	350						
455	20.74	21.22	48			0.37		0.43		14.1	23.1	24	260						
456	21.22	22.18	96	Tie in 21.35		0.018		0.049		0.43	12.7	4	230						
457	22.18	23.22	104			0.11		0.042		0.25	19.4	14	300						
458	23.22	24.02	84			0.43		0.089		0.73	32.4	31	<20						
459	24.02	25.01	99	Tie in 24.40		1.45		0.066		0.077	34.5	54	75						
145460	28.07	28.76	69	datum block 27.95.		0.49		0.078		1.00	17.2	13	230						
WEIGHTED AVERAGE																			
	9.75	17.22	747			1.81		2.16		3.95		71.6							

HOLE Nº QR 7 DATE 18-8-74

SAMPLE Nº	FROM (M)	TO (M)	W (cm)	REMARKS	INITIAL ANALYSIS: A.C.S. Labs.										CHECK LAB:				
					%Cu		%Pb		%Zn		%Fe	ppm Ag	ppb Au	ppm Au	INTERVAL & BULK Nº	%Cu	%Pb	%Zn	Δ
					AAS	XRF	AAS	XRF	AAS	XRF	TIT	AAS	AAS	FIRE		TIT	GRAV	TIT	
136958	25.01	26.01	100	Datum 24.40		0.23		0.020		0.30	12.0	19	60						
136961	26.01	26.77	76			0.58		0.037		0.11	14.7	18	20						
136963	26.77	27.69	92	ties. 27.45.		0.14		0.039		0.18	9.69	8	120						

HOLE Nº QR 7 DATE 23-8-74

SAMPLE Nº	FROM (M)	TO (M)	I.W. (cm)	REMARKS	INITIAL ANALYSIS: A.C.S. Labs. %Cu AAS	%Cu XRF	%Pb AAS	%Pb XRF	%Zn AAS	%Zn XRF	%Fe TIT	ppm Ag AAS	ppb Au AAS	ppm Au FIRE	CHECK LAB INTERVAL & BULK Nº	%Cu TIT	%Pb GRAV	%Zn TIT	Δ
141044	31.67	32.57	90	Datum 30.50		0.34		0.15		0.12	12.5	13	220						
045	32.57	33.47	90			0.17		0.14		0.43	11.9	10	160						
047	33.47	34.37	90	15cm core loss to 33.85		0.051		0.071		0.57	16.0	8	120						
141050	34.37	35.30	93			0.015		0.31		0.52	14.6	9	160						
053	35.30	36.30	100			0.18		0.75		2.39	17.6	15	260						
057	36.30	37.45	115	+20 cm core to 36.80		0.02		0.18		0.22	13.3	5	115						
059	37.45	38.85	140			0.07		0.33		0.68	14.1	6	110						
141070	38.85	39.85	100	10 cm core loss betw. 36.90 and 40.25		0.061		0.30		0.37	17.5	3	80						
072	39.85	40.20	35			0.01		0.081		0.05	14.7	<2	75						
073	40.20	40.70	50	+15cm core betw 40.25 & 41.15		1.52		0.45		0.90	32.5	8	350						
074	40.70	41.30	60			0.017		0.12		0.18	14.4	<2	75						
076	41.30	41.93	63	+15cm core 41.15 to 42.05		0.012		0.12		0.079	13.4	2	70						
141077	41.93	43.20	127			0.21		0.33		1.00	18.0	11	190						
141078	50.25	51.17	92	datum 49.25 tries block		0.81		1.07		2.17	18.8	19	160						
141081	51.17	51.59	42	51.30		0.29		0.33		0.34	15.6	31	115						
141085	60.90	60.95	25	datum 60.65		1.30		0.44		1.55	39.6	23	70						

HOLE Nº QR 7 DATE 7-7-74

INITIAL ANALYSIS: A.C.S. Labs.

SAMPLE Nº	FROM M	TO M	W cm	REMARKS	%Cu AAS	%Cu XRF	%Pb AAS	%Pb XRF	%Zn AAS	%Zn XRF	%Fe TIT	ppm Ag AAS	ppb Au AAS	ppm Au FIRE
145465	205.53	205.91	38	Datum 204.80		0.43		0.52		3.27	21.1	18	400	
466	205.91	206.41	50			0.76		10.6		21.5	10.9	111	850	
467	206.41	206.71	30			0.50		8.25		13.9	16.4	77	1800	3.3
468	206.71	207.71	100	tie in block 207.16		0.28		6.38		10.2	22.0	99	70	4.0
469	207.71	208.42	71			0.52		12.6		12.3	26.6	270	30,000	22.1
470	208.42	209.35	93			0.74		28.1		31.4	7.26	890	6100	6.7
471	209.35	210.38	103			0.71		25.6		30.1	11.1	745	4300	6.0
472	210.38	211.25	87	tie in block 210.75		0.17		23.5		33.1	8.0	675	7800	10.3
473	211.25	211.93	68			0.57		19.5		24.0	15.1	535	6800	6.7
474	211.93	212.31	38			0.61		12.9		24.9	20.1	358	6500	8.0
475	212.31	213.05	74	tie in block 212.45		0.085		1.44		2.54	8.26	39	600	1.7
145326	213.05	213.81	76			0.14		2.85		4.87	6.70	73	1600	1.3
327	213.81	214.21	40	block 214.00 suspect		<0.01		0.22		0.14	3.98	2	30	0.3
328	214.21	214.61	40			0.38		8.10		18.2	11.6	470	5400	7.0
329	214.61	215.85	124			0.65		15.0		33.1	12.3	330	6000	10.3
330	215.85	216.60	75			0.34		6.83		19.6	24.6	147	1800	3.0
331	216.60	217.12	52	tie in block 217.10		0.37		2.02		7.52	34.2	80	900	
332	217.12	218.32	120			0.38		1.29		2.22	40.6	41	90	
145333	218.32	219.36	104			0.13		0.70		0.82	37.8	28	<20	
WEIGHTED AVERAGE														
	205.91	217.12	1121		0.44		12.96		19.73			346.6	6.36	

CHECK LAB: Superrse Shean/CE

INTERVAL & BULK Nº	%Cu TIT	%Pb GRAV	%Zn TIT	Δ
145465	0.26	0.43	3.2	
BULK #1	0.33*	14.64	19.9	
	(0.54)	(14.31)	(18.87)	
Bulk #2	0.49	20.99	28.5	
	(0.63)	(22.58)	(28.91)	
Bulk #3	0.05	1.63	2.9	
	(0.09)	(1.75)	(2.97)	
Bulk #4	0.50	11.00	26.3	
	(0.51)	(11.28)	(26.37)	
ACS averages in brackets				
Assayed by S.S as individual samples				
145471	0.65	23.23	29.4	
145328	0.35	8.38	18.5	
145331	0.36	1.89	7.3	

* CEPL Check of Bulk #1 Cu = 0.375