Drill Hole Record

Property Mackintosh EL 2/70	District Tasmania, Australia	Hole No. QR5	
Commenced 12/6/74	Location Que River Area	Tests at with Eastman single shot	Hor. Comp.
Completed 18/6/74	Core Size NQ to 9.15 , BQ to completion	Corr. Dip	Vert. Comp.
Co-ordinates 5250E, 7200N		True Brg.	Logged by EHS
Objective To test C horizon anomalous lead geochemical values		% Recov. 100% except as specified	Date 22/6/74

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

Footage Metres From	To	Description	Sample No.	Length	Analysis
		SURVEYS: Collar minus 50° 285.5° magnetic			
		12.20 " 44° 025° " (Tropari) Ignore			
		12.80 " 47° 283° " (Camera)			
		13.50 " 46° 286° " (Tropari)			
		14.90 " 47° 293° " (") Ignore azimuth			
		48.80 " 43° 286° " (")			
		97.00 " 39° 287° " (")			
		147.65 " 35° 288° " (")			

		To	From	Mineralisation	Sample No.	Length	Analysis
0 - 1.50	Overburden - no core						
1.50 - 29.09 All attributable to broken ground (i.e. faulting) See section on faulting in log.	Dark to mid-grey lithic tuff, locally tuff-agglomerate with sulphide breccia fragments. The largest rock fragments are vitric or pumiceous, light grey to greenish in colour, subangular and amoeboid. Fragments of 80% pyrite present locally - viz. 6.30m, 13.70m 14.20m. Silicification occurs throughout in varying degrees. Noticeably altered is the zone 11.75 to 12.30 - probably a major FAULT ZONE. Sericitisation is intense over short (c.5cm)			Pyrite, with rare chalcopyrite and galena occurs in rock fragments and as ramifying veins and stringers dominantly in the tuff matrix. Angular diffuse bands of pyrite are subparallel to the cleavage. Pyrite content averages 5% throughout, all partly oxidised, except			

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Objective		% Recov.	Date

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

Footage Metres From	To	Description	Metres From	To		Sample No.	Length	Analysis
		intervals.	10.50	10.70	Massive pyrite (70%+)			
		Orange/brown carbonate veining and spotting is	20.12	20.42	Massive (70%+) pyrite			
		typically associated with silicification.			Base metal sulphides			
		Faulting Broken and/or puggy core occurs at or			(chalcopyrite, sphalerite?)			
		between the following points. (Core recoveries			were observed only in sulphide			
		are indicated).			rich fragments (viz. 16.60)			
		1.50 to 3.00 40cms						
		3.00 to 4.40 70cms						
		5.55 to 5.90 20cms						
		5.90 to 7.60 1.60m (losses adjacent						
		to 5.90 and 7.60 markers)						
		7.60 to 9.15 35cms						
		9.15 to 9.75 40cms						
		9.75 to 10.05 20cms						
		10.05 to 10.80 grinding but no measure-						
		able losses						
		10.80 to 11.40 broken, no loss						
		11.40 to 12.20 57cms						
		12.20 to 13.10 20cms						
		13.10 to 13.20 5cms						
		14.29 minor grinding						
		14.39(?) broken core						

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Objective		% Recov.	Date

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

~~Footage~~ Metres From	To	Description	Metres To	From		Sample No.	Length	Analysis
		14.85 - broken core						
		15.25 - " "						
		19.40 - " " (16.75 to 19.80m Rec. 2.88m)						
		19.80 - pug						
		20.28 - " (19.80 to 20.70m Rec.						
		20.70 - " 78cms)						
		21.25 to 22.60 - broken core, no loss						
		27.41 to 29.05 - Rec. 1.16m broken puggy, quartz veined, pyrite rich.						
		(Broken core continues, see next unit)						
29.09 - 38.15		Richly chloritic-lithic tuffs strongly to weakly			Pyrite averaging 10-15%			
T2		sheared, at 50° to 55° to core axis. Rich in			locally massive, occurs as			
		chlorite above 32.75, rich in sericite below.			disseminated euhedral crystals			
		Random quartz-carbonate veining is present			(≤1mm) stringers and veinlets;			
		throughout. Leaching of rock matrix (?carbonate)			also as crude wispy bands, not			
		is apparent throughout but particularly in the			parallel to the cleavage but			
		vicinity of more coarsely crystalline sulphide.			rotated by 20-30° but with			
		Broken core and puggy vein material are indic-			similar inclination to the core			
		ative of faulting. Recoveries are indicated in			axis may indicate bedding			
		the broken sections.			orientation. Where the fragmental			

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Objective		% Recov.	Date

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

Footage Metres From	To	Description	Metres To	From		Sample No.	Length	Analysis
		29.05 to 29.80 58cms			nature of the rock is apparent			
		29.80 to 30.10 20cms			the pyrite is seen to be dom-			
		30.10 to 30.95 no obvious losses			inantly in the tuff matrix.			
		31.20 minor grinding			Sphalerite and galena (no			
		33.25 " thin (1cm) pug zone			chalcopyrite) occur in trace			
		34.55 to 34.80 broken, no losses			quantity sporadically, but			
		35.05 thin pug zones in sericite			are significant (<5% total			
		35.25 schist			sphalerite-galena) from 36.22 to			
		36.76 " " " " " "			36.52.			
		37.00 " " " " " "						
		37.08 " " " " " "						
		37.40 to 38.15 60cms, broken puggy						
38.15	48.85	Light grey flow banded rhyolite, or ash flow			Pyrite is typically 2% in fine			
		tuff, variably sericitised. Banding typically			(<< 1mm) crystals.			
		65° to the core axis but is displaced around	45.50	48.60	5 narrow (1-5cm) bands of pyrite-			
		large (5cm) blocks, and may change sense of			sphalerite carbonate occur.			
		attitude.						
		FAULTS(pug zones) occur at 48.64						
		48.99						
48.85	50.23	Lithic tuff Distinctive white ovoids (5mm) with			Pyrite-sphalerite veinlets total			
		diffuse margins in fine grained grey matrix.			<2%.			

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Footage Metres From	To	Description	Metres To	From		Sample No.	Length	Analysis
50.23-	68.20	Coarse lithic tuff with dark grey bande andesite or dacite fragments (largest 4cms) and grey green sericite vitric and pumiceous amoeboid and subangular fragments. Banding in fragments shows all orientations. Fragments of sulphide (pyrite) occur below 58.20. Alignment of rock fragments is 60° to core axis, with bedding plane rotated 20° from cleavage plane.			Pyrite occurs as fragments and matrix crystals - averaging 5%.			
68.20	-150.95	Pumiceous vitric tuff agglomerate showing colour cyclicity; below 124m approx. this unit is a strongly carbonatised pumiceous lithic tuff. The colour is grey from 68.20 changing to grey - green at 86.90 to pale green at 96.00 to grey green at 101.60 and gradually changing again to greenish yellow at 125.90. Yellow colouration is attributed to fine grained carbonate in the groundmass below 124m. Sericitisation is common. The fragments typically contain 1-2mm ovoids and polyhedral 'fragments' of sericite (after glass?). The angularity of some sericite masses does not seem	70.40 - 76.40 85.55.- 97.70 101.60-102.55 123.10-125.95 144.70-145.70		Sulphide (pyrite) is 0-2% except as specified. 5-7% pyrite as deformed/remobilised fragments, veinlets and stringers. 5-10% pyrite as fragments, but dominantly as veinlets and as vesicle fillings in pumiceous fragments. 5-10% pyrite as spotty grain aggregates. 5% pyrite av. 10-15% pyrite, short intervals of 30-40% pyrite with 10cms of 5% galena at 145.00. Banding is 70°			

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Objective		% Recov.	Date					

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

Footage From	Footage To	Description	Metres To	Metres From		Sample No.	Length	Analysis
		consistent with (alteration of) glass after			to core axis.			
		fluid bubbles. Local carbonate spotting observed						
		Rock fragments are variously wispy, angular,						
		rounded and often show 'eroded' margins (perhaps						
		the result of gas exsolution).						
		FAULTS indicated by broken core and/or pug at						
		the following positions:						
		Pug zones (1-2cms) 68.65, 71.80, 81.05, 82.05,						
		82.45, 82.85, 83.55, 83.95						
		The core is notably broken between 81.15 and						
		85.70.						
		Carbonate vein 3 cms at 86.90, 65° to core axis						
		Pug zones 95.45, 102.90, 104.00. Broken core						
		102.00 to 111.00.						
		Carbonate veining 117.40 to 118.90 subparallel						
		to core axis.						
		Pug zones 129.45, 132.90, 133.45. Broken core						
		129 to 135m.						
		Major pug (15cms) at 135.00						
		END OF HOLE AT 150.95						

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HOLE Nº QR 5 DATE 19-8-74

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
141001	27.41	29.05	129	Datum 25.95 (35cm core loss)		0.01		0.058		0.076	4.97	3	290	
002	29.05	29.80	65	to 29.05 (10cm loss)		0.022		0.20		0.41	12.2	9	<20	
015	29.80	30.95	115	no loss		0.017		0.42		0.85	8.3	10	270	
016	30.95	31.45	50	ties block 31.20		0.021		0.33		0.87	10.1	11	90	
017	31.45	31.95	50			0.14		0.91		1.45	12.7	26	<20	
018	31.95	32.45	50	ties block 32.15		0.028		0.49		0.86	11.4	9	<20	
019	32.45	33.05	60			0.015		0.43		1.13	14.7	7	<20	
020	33.05	33.55	50			0.094		0.51		2.48	11.0	11	<20	
021	33.55	34.15	60			0.032		0.33		0.76	12.3	11	<20	
022	34.15	34.75	60	ties block 34.75		0.043		0.55		0.64	12.0	18	<20	
024	34.75	35.25	50			0.044		0.57		0.74	6.25	10	190	
026	35.25	35.75	50			0.010		0.081		0.29	6.35	10	90	
027	35.75	36.35	60			0.010		0.72		1.42	8.70	17	100	
028	36.35	36.85	50			0.21		4.10		3.72	9.73	40	<20	
030	36.85	37.15	30	ties block 37.20		0.075		0.77		0.60	7.76	9	220	
141032	144.60	145.10				0.014		1.43		3.16	7.32	19	320	
033	145.10	145.70		ties block 145.50		0.014		0.29		0.52	11.2	19	150	
WEIGHTED AVERAGE														
	31.45	33.55	210		0.07		0.58		1.46			12.95		
	35.75	36.85	110		0.10		2.26		2.47			27.0		

CHECK LAB:

INTERVAL & BULK Nº	%Cu TIT	%Pb GRAV	%Zn TIT