

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	Metres To	Description	Sample No.	Length	Analysis					
		up to 4mm in a mid-dark grey matrix. Shearing 45° to core axis.								
6.15	22.75	Richly <u>sericitic schist</u> , fine grained except 20.55 to 21.80 T1 which is a medium grained feldspathic tuff, Streaked out white blebs suggest an original spherulitic(?) character. Probably 40% (HCl testing indicates this spotting is not carbonate).								
6.15	10.20	Black bands and zones indicate chloritisation. This commonly shows gradual intensification over 1-2cms with a sharp but wavv cut off against light grey low chlorite schist. Shearing is typically 40° to core axis. Chlorite bands have similar attitude but may be rotated by 20°. (Deduce that cleavage post dates alteration). Fragmental character visible locally. Pyrite 2-5% as fine crystal aggregates 1-2mm, and stringers commonly oblique to cleavage. Also occurs as occasional 1-2cm bands parallel to colour banding rather than cleavage. The core is broken, puggy and sheared at numerous points, particularly 7.85								
		8.50								
		10.20								
		11.80								
		12.80								

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Footage From	Metres To	Description	Sample No.	Length	Analysis										
	13.40														
	15.20														
	20.75														
22.95 - 24.25		Sericitic tuff with subhedral to anhedral feldspar phenocrysts Comment: From 24.25 through to 6.15 there would be graded bedding of feldspathic tuffs showing two cycles fining (i.e. top) up the hole.													
24.25 - 26.86		Chlorite schist with irregular quartz-carbonate veining and ramifying pyrite stringers of very fine crystals - 5%, locally 20% over maximum 5cms. Core broken.													
26.86 - 28.86		Vitric rhyolite in which the glassy fragments have been converted to sericite blebs aligned at 40° to the core axis. Weakly chloritic bands occur. Shearing is more intense where sericite is in greater abundance. Pyrite < 2% as rare bands.													
28.86 - 36.90		Sericitic lithic tuff of strongly spherulitic or feldspathic character Cross fragmental texture becomes gradually but regularly coarser down the hole. Fragment size typically 5mm at 29m increasing to 2cms at 32.50 and to 3-5cms at 35m. Close packing suggests autobreccia													

COCNINGTON PRINT

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Footage Metres From To	Description	Sample No.	Length	Analysis												
	(ashflow?), but effect of strong cleavage (at 45° to the core axis) difficult to ascertain. Locally the matrix shows silicification, some areas of which look like fragments in their own right.															
	Probable fault at 36.90.															
36.90 - 41.15	Characteristically chloritic. 36.90 to 38.90 spherulitic(?) unit; quartz-feldspar (or carbonate?) aggregates of roughly 2mm diameter, are grouped into chains and layers often becoming veinlike. The 'matrix' is cryptocrystalline and black in colour. It is not clear which of these two assemblages represents the last phase to form. In some areas (c. 1-2cms) the chloritic material looks like rock fragments in a white matrix. Elsewhere the converse is true. Quartz-carbonate veining is common, both parallel and oblique to the cleavage - 45° to the core axis. Pyrite, 5%, is concentrated in, (but not exclusive to) the white mineral assemblage.															
	38.60 to 41.15. Partly the same as above but dominantly a breccia. Grey to black subangular chloritic fragments															

COCKING PRINT

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Footage Metres		Description	Sample No.	Length	Analysis					
From	To									
		(< 1cm) are set in a quartz-carbonate (feldspar?) matrix.								
		Around 41.10 some fragments are light grey and siliceous. Others are comprised of 60% plus pyrite.								
41.15	42.90	Sheared sericitic feldspathic tuff <u>agglomerate</u> - light grey in colour The fragments appear to contain less phenocrysts than the matrix. Feldspars are sub- to anhedral (up to 4mm). Cleavage is 40° to core axis. Pyrite 2-5% locally, elsewhere is not obvious.								
42.90	44.35	Massive <u>chlorite</u> rock, sheared in part. Richly pyritic (average 10%, but locally 80%), with carbonate, also in bands of varying crystal grain size - cryptocrystalline to < 1mm. Bands are at 45° to core axis								
44.35	45.03	Light grey <u>tuff agglomerate</u> . The matrix is light grey and siliceous, the fragments are mid-grey, greenish to fawn, spherulitic in part, vitric and show a wide range of shapes from round to tubular. Margins are commonly irregular with wispy extensions both parallel to and oblique to the overall foliation (40° to core axis). Some fragments are less than 1cm thick but traverse the core. A plastic state of extrusion is indicated as <u>ash flow tuff agglomerate</u>								

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Footage From	Metres To	Description	Sample No.	Length	Analysis					
		The foliation is probably original flow texture								
45.03	48.00	Massive chlorite rock with quartz-feldspathic aggregates (+ carbonate) The latter occur as spheres, veins, masses and interstitial to zones of massive pyrite (80%), which crudely parallel the foliation (weak cleavage) 20-40° to core axis.								
48.00	63.70	Siliceous (ash flow) tuff agglomerate with rare < 5cm bands of pyritic, chloritic schist identical with the units above. Agglomerate fragments are light grey. The glassy looking chips and ovoids (1-2mm) are sericitised. Flow banding is quite apparent. Large fragments are less common downwards. Pyrite is associated with silicification (in the form of diffuse veins), but is generally rare. Averages < 2% except in discrete massive (50cm) zones: 54.95 to 55.55 (90%) 57.69 to 59.17 (av. 60%) and other narrow (5cm) zones								
		Possible Fault at 59.17 - core sheared and puggy								
63.70	66.50	Sericitised (relatively weakly) vesicular lava; fawn and light grey in colour. Sheared at 25-35° to core axis.								

COPIATION PRINT

Drill Hole Record



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Claim
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Elev.
Length
Hole No.

Footage. Metres		Description	Sample No.	Length	Analysis													
From	To																	
66.50	87.15	Lithic tuff																
		Above 72.40 very dark grey angular and subangular andesitic(?) fragments < 2cm are characteristic.																
		Light grey/cream fragments are subordinate. Ground mass is light grey, siliceous and locally silicified.																
		Below 72.40 andesitic fragments become less and less common. Fragments generally mid grey, and becoming more significant																
		are 'areas' of up to 5cm diameter of quartz-carbonate of a mottled appearance. Some of these 'areas' look																
		like fragments, elsewhere they vary into veinlets and stringers. These 'areas' are usually, but not exclusively, pyritic.																
		Matrix silicification is common, (and would be the cause of the apparent decline in dark fragments)																
		82.65 to 83.65 (and two minor intervals below this). Richly chloritic with 1mm quartz-carbonate(?) spotting.																
		Broken core at 79.05 indicative of possible fault.																
		Pyrite mineralisation occurs throughout as veins and stringers as well as finely disseminated, average probably 2-5% except: 66.85 - 67.95 - 50% pyrite																
		72.40 - 73.17 90%																

LOCKINGTON PRINT

Drill Hole Record



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Claim
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Collar Dip
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Hole No.

Footage From	Metres To	Description	Sample No.	Length	Analysis					
		78.75 - 79.45 20%								
		80.02 - 80.15 50%								
		The chloritic zones are more heavily mineralised than the siliceous tuff probably 5-10% pyrite concentrated in part into bands at 40° to core axis.								
87.15 - 96.55		<u>Pyrite rich zone</u> Massive pyrite of vein form has swamped lithic tuff. The latter is composed of light grey fragments and ghosts in a thoroughly silicified white matrix. Fragment size increases downwards.								
CORE LOSS		(2.79) 1metre core loss in mineralisat ⁿ .								
89.91 to 92.70		Below 94.70 it is a <u>tuff agglomerate</u>								
		87.15 to 89.71 90% pyrite								
		89.71 to 89.91 lithic tuff								
(not faulted- lifter failure core redrilled)		89.91 to 92.70 about 50% of core is 90% pyrite. Note core loss comments.								
		92.70 to 94.70 approx. 80% pyrite								
		95.87 to 96.55 60% pyrite								
96.55 - 130.75		<u>Tuff agglomerate</u> as above but less massive pyrite. Crude alignment of fragments at 40° to core axis. Pyrite still occurs as coarse stringers and clots, averaging 5-10%. Below 104m the white silicified matrix is less obvious								

COCKINGTON PRINT

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Footage From	Metres To	Description	Sample No.	Length	Analysis					
		though still present. Characteristic is carbonate spotting (usually light brown, but occasionally wispy white carbonate is present) of the order 5-15%, locally 20%. Pyrite is 5% as veinlets and stringers, at all attitudes to the core axis.								
		The bottom of this unit is difficult to define but is chosen as 132.42 (core) being the point at which:-								
		(i) groundmass silicification of a dark grey lithic tuff ceases and								
COPE LOSSES	110-60-112.85	(ii) siliceous vitric rhyolite with a pink colour (when wet) commences.								
	(2.25m) probably 40% loss	<u>Faulting</u> is apparent. Broken core occurs at the following locations:								
		110.60 to 112.85								
		117.42 to 117.70								
	119.00-120.45	119.00 to 120.45								
	(1.45m) could be 50% loss	plus numerous other minor broken zones to 130.50.								
	130.75-151.00	Defined as the point at which vein/stringer sulphide mineralisation attains 50% (average)								
		130.75 to 131.35 60cms fine to medium (<1mm) pyrite av. 50%.								
		131.35 to 132.33 98cms pyrite 60% with ramifying network of chalcopryite 15% in a siliceous matrix.								

DOCKINGTON PRINT

Drill Hole Record



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Footage From	Metres To	Description	Sample No.	Length	Analysis					Hole No.	Sheet	
					Claim	T. Brg.	Collar Dip	Elev.	Length			
		132.33 to 134.23 Pink vitric rhyolite breccia, with 10% pyrite, stockwork veining. Breccia matrix is quartz of cryptocrystalline form, white-grey-translucent. 2cm band of chalcopyrite/pyrite at 133.30. Elsewhere chalcopyrite is nil.										
		134.25 to 134.87 (corresponds to end of sample) 30% pyrite, 5% chalcopyrite as amorphous shapes suggestive of fluid deformation.										
		134.87 to 135.85 Massive pyrite 70%. Chalcopyrite 20%, typically banded at 35° to 45° to core axis. Banding shows fluid deformation. Seem to be two short (20cm, 30cm) cycles in which pyrite of fine grain increases in grain size downwards and then rapidly becomes rich in chalcopyrite			Calculated average							
					131.35 to 139.73m is							
					7.6% chalcopyrite over							
					8.38% (ignores all							
					trace occurrences)							
		135.85 to 136.85 Massive 75% pyrite, 5% chalcopyrite										
		136.85 to 137.25 Pyrite 40%, trace chalcopyrite in lithic tuff matrix (grey as per previous logged interval)										
		137.25 to 139.73 Pyrite, massive 80%, chalcopyrite up to 10% but averages 5%.										
		139.73 to 140.37 Grey lithic tuff, pyrite 5% plus rare splashes chalcopyrite.										
		140.37 to 144.80 Massive pyrite 80%										
		144.80 to 145.65 Grey siliceous lithic tuff to tuff agglomerate										
		145.65 to 146.96 Massive pyrite, minor intervals of lithic tuff, patchy sericitisation. Crude foliation at 35° to 40° to core axis.										

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Footage Metres		Description	Sample No.	Length	Analysis					
From	To									
		Pyrite shows vein form, subparallel to core axis locally.								
		146.96 to 147.50 Lithic tuff with minor carbonate veining.								
		147.50 to 148.12 Dominantly massive 90% pyrite								
		148.12 to 148.30 Lithic tuff								
		148.30 to 149.70 Massive 80% pyrite, patchy sericitisation of lithic tuff and minor carbonate veining.								
		149.70 to 150.70 Lithic tuff								
		150.70 to 151.00 Pyrite 80%								
		Broken core indicative of <u>faulting</u> is present at the following positions:-								
		146.54								
		150.25								
		150.90 to 151.70								
		152.25 to 155.15								
151.00-184.80		Broken and ruptured as described above to 155.15, light grey lithic tuff. Sericitisation of fragments is erratic, silicification in the form of irregular veins is both white and light grey. Carbonate veining is parallel and oblique to the core axis. Carbonate spotting is locally present. The grey-green tinge of the sericitised fragments is similar to the lowest unit in QP3. Foliation is 40° to core axis								

COCKINATOR PRINT

HOLE NO QR 4

DATE 20-6-74

INITIAL ANALYSIS: A.C.S. Labs.

CHECK LAB: SUPERVISE SHEEN/CI

SAMPLE NO	FROM M	TO M	I.W. cm	REMARKS
300	131.20	132.20	100	
145426	132.20	133.20	100	ties block 132.95
427	133.20	133.80	60	
428	133.80	134.65	85	
429	134.65	135.25	60	
430	135.25	135.95	70	
431	135.95	136.45	50	
432	136.45	137.20	75	
433	137.20	138.20	100	
434	138.20	138.80	60	10cm core loss betw. above and 139.05.
435	138.80	139.50	70	
WEIGHTED AVERAGE				
	131.20	139.50	830	

%Cu		%Pb		%Zn		%Fe	ppm Ag	ppb Au	ppm Au
AAS	XRF	AAS	XRF	AAS	XRF	TIT	AAS	AAS	FIRE
	0.046		0.023		0.071	23.8	6	<20	
	6.45		0.14		0.56	28.5	38	40	
	0.68		0.034		0.10	12.0	10	95	
	0.11		0.017		0.11	78.6	5	80	
	1.12		0.10		0.45	17.4	20	<20	
	7.38		0.23		0.71	38.7	67	<20	
	5.20		0.14		0.21	33.5	30	<20	
	3.54		0.035		0.15	37.9	22	<20	
	2.04		0.037		0.10	36.1	19	<20	
	4.17		0.12		0.11	36.1	40	<20	
	2.69		0.085		0.16	35.8	31	<20	
	3.20		0.052		0.17	38.8	26	<20	

INTERVAL & BULK NO	%Cu TIT	%Pb GRAV	%Zn TIT
Bulk*5	0.75 (1.10)	0.05 (0.053)	0.2 (0.22)
Bulk*6	5.24 (5.47)	0.13 (0.14)	0.3 (0.36)
Bulk*7	2.45 (3.13)	0.10 (0.07)	0.2 (0.13)
Individual assays			
145300	6.91	0.18	0.7
145431	3.16	0.05	0.1
* CEPL	Check of Cu is 2.80		

HOLE NO QR 4DATE 29-6-74INITIAL ANALYSIS: A. C. S. Labs.

CHECK LAB:

SAMPLE NO	FROM M	TO M	I.W. cm	REMARKS	%Cu		%Pb		%Zn		%Fe	ppm Ag	ppb Au	ppm Au	INTERVAL & BULK NO	%Cu	%Pb	%Zn	TIT	
					AAS	XRF	AAS	XRF	AAS	XRF	TIT	AAS	AAS	FIRE		TIT	GRAV			
145437	139.50	140.20	70			0.30		0.059		0.058	17.1	9	75							
438	140.20	140.64	44			0.29		0.059		0.072	38.2	19	<20							
439	140.64	141.68	104			0.66		0.060		0.078	38.1	15	50							
440	141.68	142.58	90			1.77		0.087		0.11	39.0	31	<20							
441	142.58	143.88	130			0.17		<0.01		0.052	32.9	13	150							
442	143.88	144.85	97			1.25		0.064		0.11	40.8	24	<20							
443	144.85	145.63	78	ties in block 145.15		0.040		0.025		0.028	9.45	<2	30							
444	145.63	146.26	63			0.43		0.037		0.037	31.0	10	70							
445	146.26	147.12	86			0.73		0.031		0.037	37.9	14	<20							
446	147.12	147.58	46			0.095		0.016		0.039	11.9	5	25							
447	147.58	148.12	54			1.47		0.033		0.063	32.9	20	2300							
448	148.12	148.75	63			0.64		0.050		0.036	39.5	13	540							
449	148.75	149.63	88	8cm short at 148.20		0.065		0.079		0.13	32.3	11	<20							
450	54.95	55.97	102			0.14		0.045		0.033	37.7	8	410							
145401	57.75	58.35	60			0.027		0.019		0.021	33.0	3	170							
402	58.35	59.45	110			<0.01		0.041		0.029	36.6	9	210							
403	66.85	67.98	113			0.55		0.037		0.025	26.6	8	190							
404	72.40	73.29	89			0.035		0.033		0.062	33.1	9	<20							
405	87.15	88.01	86			0.011		0.020		0.010	25.7	<2	85							
406	88.01	88.81	80			0.012		0.039		0.030	40.3	4	<20							
407	88.81	89.68	87			<0.01		0.030		0.018	36.0	<2	<20							
408	89.68	90.66	98			0.017		0.022		0.010	21.8	<2	110							
409	90.66	92.70	204	(Screen core loss)		<0.01		0.035		0.016	32.7	<2	<20							
410	92.70	93.67	97			0.011		0.028		0.013	29.5	<2	<20							
411	93.67	94.68	101			0.015		0.015		0.021	34.8	3	<20							
412	94.68	95.94	126			<0.01		<0.01		<0.01	19.7	<2	45							
413	95.94	96.86	92			<0.01		0.013		0.015	25.7	<2	130							
414	98.03	98.58	55			<0.01		0.018		<0.01	23.5	<2	85							