

HOLE No QR 86DDATE 20/2/76

INITIAL ANALYSIS:

CHECK LAB:

SAMPLE NO	FROM M	TO M	IW cm	REMARKS	%Cu		%Pb		%Zn		%Fe	ppm Ag	ppb Au	ppm Au	INT.	%Cu	%Pb	%Zn
					AAS	XRF	AAS	XRF	AAS	XRF	TIT	AAS	AAS	FIRE				
156666	123.00	125.35	235	Datum 126	0.01		0.23		0.33			12	280					
156667	125.35	126.00	65	" 126	0.01		0.04		0.03			4	<20					
156668	126.00	127.63	163	" 129	0.09		0.46	2.83	0.75			22	430					
156669	127.63	129.35	172	" 129	0.40			5.03		5.89		105	400					
156670	129.35	130.35	100	" 129	0.80			14.9		13.2		315	>500	6.7				
156671	130.35	131.60	125	" 131.60	0.39			12.9		23.4		265	>500	10.3				
156672	131.60	133.34	174	" 134.60	0.93			1.83		24.3		180	>500	1.7				
156673	133.34	135.90	265	" 135.90	0.15		0.37			2.87		42	>500	0.5				
156674	135.90	137.05	115	" 138	0.02		0.09		0.38			10	50					
156675	137.05	138.40	135	" 138	0.01			1.61	0.04			< 2	< 20					
156676	138.40	140.18	178	" 138	0.15		0.08			.54		28	450					
156677	140.18	141.68	170	" 141	<0.01				0.06			8	< 20					
	127.63	133.34	571		0.63		8.93		16.61			199.7		4.1				

HOLE No QR 86DDATE 16/2/76

				INITIAL ANALYSIS:										CHECK LAB:				
SAMPLE NO	FROM M	TO M	IW cm	REMARKS	%Cu		%Pb		%Zn		%Fe	ppm Ag	ppb Au	ppm Au	INT.	%Cu	%Pb	%Zn
					AAS	XRF	AAS	XRF	AAS	XRF	TIT	AAS	AAS	FIRE				
179379	54.97	56.45	148	Datum 52.60	<0.01		0.03		0.15			1	0.05					
179380	56.46	57.82	136	" 58.50	<0.01		0.12		0.26			2	0.10					
179381	57.82	60.00	218	" 60.00	<0.01		0.07		0.12			1	0.10					
179382	60.00	62.03	203	" 63.00	0.01		0.17		0.16			3	0.15					
179383	62.03	63.00	97	" 63.00	<0.01		0.05		0.06			1	<0.05					



DIAMOND DRILL LOG

Hole No QR86D

Page No 1

Feature : Bedding

Foliation

Fragment - size & shape

Shearing

Fault

Vein

Mineralization : Trace 1 - 5%

Common 5 - 15%

Abundant 15 - 60%

Massive > 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	5								
	10								
	14								
0.6	15	DTL. Buff-grey carb <u>feldspar crystal tuff-lava</u> . The rock is weathered, partly kaolinised down to 19.5m.							Pyrite 1% - 2% as disseminations, and aggregates of fine sub-euhedral crystals.
2.2		Feldspar crystals are represented by aggregates of white carbonate and/or pale green sericite to 3mm. The ground-mass is fine grained quartzo-feldspathic							
0.9		The rock is locally brecciated (Tectonic) generally re-cemented with carbonate.							
	20	Below 22m minor chlorite alteration has been noted, the rock is pale green in colour.							
1.4									
1.5									
1.5		Down to 30m the rock is heavily carbonated minor carb. veins are common.							
	25								



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Vein c carbonate
q quartz

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	3.0	26.0. 10cm carbonate cemented breccia							Pyrite as above
	1.5								
	1.5								
	1.0								
	1.3	32.0 Fault zone, Minor pug, sheared and							
		32.4 broken core							
	1.6								
	1.5	Below 34.0m the rock appears to be a lithic tuff agglomerate or lava breccia							
	3.1	Fragments of DTL - up to 6cm in a matrix of similar composition and texture.							
	1.6								
	40	FAULT CONTACT 25° CA							
	1.5	40.8 PyP1						40.8	Pyrite 3% as above
		Grey carb. (ser) lithic tuff agglomerate. Similar to the rock above 40.8.							
	1.3	This unit is pyrite rich, grey in colour.							
		Locally chloritised about fractures.							
	2.0								
	45	Below 45m the rock is a lithic tuff. Fragments up to 1cm have been noted.							
	1.5								
	1.5	47.0 FAULT CONTACT 35° CA						47.0	
		DTL Fault zone. Minor pug, sheared and disrupted at 35°-40° C.A.							
	1.5	48.5 Buff-grey carb (ser) feldspar crystal tuff-lava.							
	50	The rock is generally sheared and							

Feature :

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c carbonate
q quartz

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CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	1.5	PyP1 as above						75.8	Py 5% as above
	1.5	77.0m. Large fragment of altered DTL 10 cm.						76.3	Py 20% as above. Rare Sph Gn.
	1.5	Below 78m the rock is increasingly carbonate rich, aggs. of white carb. to 1 cm have been noted							
	80								
	1.5							80.6	10cm Py 15%
	1.5								
	0.8								
	85								
	1.2							85.1	Pyrite 15% Sph 1-2 Gn 1 as diss. aggs and irreg. veins.
	1.0							85.9	Pyrite 5% as above.
	1.3	87.45 Grey sheared ser. locally carb. lithic tuff agglomerate.						87.45	Pyrite 15% as disseminations aggregates and irregular veins, colloform textures have been noted, rare Sph Gn.
	0.8								
	0.9							89.5	
	90	Similar to above 87.45m, however distinctly more sericitised and sheared at 30° C.A. Pyrite alteration is common.						90.5	Py 5% as above 10 cm Py 10%
	3.0								
	91.8m	15cm band grey shert? 30° C.A.							
	92.8								
	3.0	Grey ser. locally carb. coarse lithic tuff. Similar to above.							
	95	Lithic fragments are from 0.5mm to 2cm generally completely sericitised.							
	3.0	The rock is weakly sheared and disrupted. The matrix is fine grained, blue grey and siliceous.							
	98.5							98.5	Pyrite 10% locally 15% as disseminations, aggregates and irregular veins.
		Cleavage 30° - 40° C.A.							



DIAMOND DRILL LOG

Hole No **QR86D**

Page No 5.

Feature :

Bedding
 Foliation
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Shearing
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 Vein c carbonate
 q quartz

Mineralization : Trace 1-5%
 Common 5-15%
 Abundant 15-60%
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	3.0	PyP1 as above.						101.0	Py as above, rare Sph, Gr Py 5% as diss, aggs and irreg. veins
	3.0	103.3 Grey carb. locally silicified and sericitised lithic tuff.						104.0	Pyrite 10% as diss, aggs. and fragments.
	1.2	105 L. fragments are irregular in outline up to 1cm. Generally obscured by pyrite.						104.8	Pyrite 20% as disseminations, aggregates, irregular veins.
	1.5	106.0 - 106.2m. Massive white quartz vein.						101.6	Tr. Sph, Gn in quartz vein and fragments to 1 cm.
	0.4	1.5 The rock is generally obscured by semi-massive to massive pyrite.							of fine sub-euhedral crystals. Trace Sph, Gn
	0.8	108.8 Fault zone. Pug, 80% sheared and broken core.							
	1.0	110						110.1	Pyrite 60% locally 80% Sphalerite 2%-3%, galena 1%-2% as diss, aggs, and fragments to 1cm.
	2.0								
	1.5							112.8	Pyrite 40% locally 60% as above. Trace Sph, Gn in a sericite gangue.
	14.1	14.1							
	14.5	14.5 Fault zone. Pug, sheared and broken core							
	1.3	115							
	1.7								
	3.0								
	120								
	3.0								
	3.0							23.5	Pyrite 15% as above
	125								



DIAMOND DRILL LOG

Feature : Bedding
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Mineralization : Trace 1-5%
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 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
	25.25	DTL buff carb. <u>vesic feldspar crystal tuff-lava</u>			25.25	Pyrite as above.
	26.0				26.0	Pyrite <1%
3.0		PyP1 Grey sericitised lithic tuff as gangue to semimassive to massive sulphides.	F		27.4	Pyrite 15% as disseminations and aggregates. Rare Sph, Gn. Pyrite 40% locally 50% Trace Sph, Gn.
	130		F		128.8	Pyrite 20%-30%, Sphalerite 15-20% Galena 10-15%, rare chalcopyrite as disseminations, aggregates and bands of massive sulphides (Interpreted P North lens) Bands 30°-40° C.A.
2.6		Foliation 30° - 40° C.A.			133.6	Pyrite 30-40% sphalerite 3-5% galena 1-3% in a sericite gangue.
3.0					135.7	Pyrite 1-2% as disseminations and aggregates of fine sub-euhedral crystals.
1.3	35.7	DTL Buff locally grey carbonated <u>vesicular feldspar crystal tuff-lava.</u>	F		135.7	
2.1					138.35	Pyrite 10%, sphalerite 2-3%, gn 1-2%, rare cpy.
	38.35	CONTACT 40° C.A. Grey sericitised locally silicified lithic tuff agglomerate. Lithic fragments elongated in direction of fold.			140.1	Pyrite 5% locally 10% as disseminations, aggregates and irregular veins.
3.0	140.1	Foliation 50° C.A. DTL Buff carb lithic tuff agglomerate. The rock is a broken and fractured lava? down to 143.7m. Lithic fragments are generally up to 5cm in length, pale green-buff weakly sericitised feldspar crystal tuff-lava. The groundmass is buff in colour fine grained quartzofeldspathic.			143.0	Pyrite <1% as disseminations and aggregate.
	145				147.0	Pyrite 1-2% as disseminations.
3.0			F		148.3	Pyrite <1% as above.
3.0		147.0 - 148.3m Grey in colour due to sericite-pyrite alteration.	F			



DIAMOND DRILL LOG

Hole No QR86D

Page No 9

Feature : Bedding
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Shearing
 Fault
 Vein c carbonate
 q quartz

Mineralization : Trace 1-5%
 Common 5-15%
 Abundant 15-60%
 Massive >60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	1.7	Below 199.2m the rock is tuff-agglomerate. The matrix is grey-fine grained and siliceous, pyrite alteration is common.							Pyrite 5% locally 10% Rare trace sph, gn as above.
	3.0	White carbonate aggregates are common and may represent altered feldspar crystals.						202	Pyrite 10%, sph 1-2%, gn 1% as disseminations and aggregates.
	3.0	Foliation 40° C.A.						204.65	Pyrite 3-5%, rare sph, gn.
	3.0							207.5	Pyrite 5% locally 10% as above.
	3.0							209.1	Py 3-5% as above.
	3.0							210	
	3.0							215	
	3.0	E.O.H.						216	