Drill Hole Record

Cominco

LOCATION Que River
PROPERTY Mackintosh EL 2/70
DISTRICT Tasmania, Australia. ALTITUDE / RL 699.39 new RL.
HOLE N° QR 13
COMMENCED 6.1.1975
COMPLETED 20.1.1975
CORE SIZE NQ to 191 m then BQ to 383 m E.O.H.
DATE 23.1.1975
OBJECTIVE To test the west lens beneath QR 12
%RECOVERY 99%
CO-ORDINATES 7595.4N 4957.7E
LOGGED C.H. Young
GRID BEARING (M) 8.75°
BEARING (M) 95°
DIP -50°

SURVEY DATA

DEPTH (m)	DIP	BEARING(M)	INSTRUMENT TYPE
0	50°	95°	Compass Clinometer
40	50°	96°	Eastman
71	48°	97.5°	Single Shot
98	46°	98°	Camera
133.3	44.5°	99°	" "
172	41.5°	100°	" "
206	39.5°	101°	" "
248	35.5°	103°	" "
281	32°	103°	" "
311	29°	103.5°	" "
353	21°	105.5°	" "
377	20°	112°	" "
383	E.O.H.		

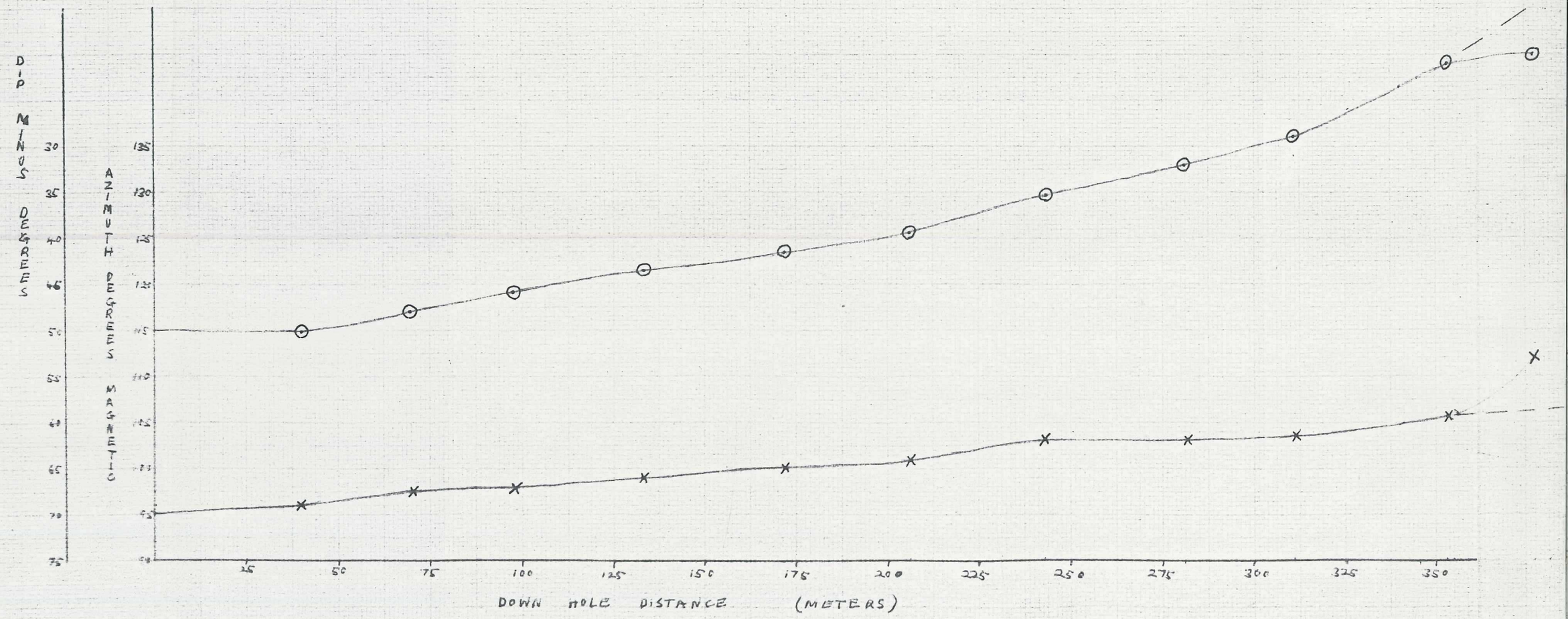
GRAPH DERIVED DATA

DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE
0	50	95	7595.4	4957.7	699.4
25	50	95.5	7596.4	4973.7	680.2
50	49.5	96.5	7597.2	4989.9	661.2
75	47.5	97.5	7597.7	5006.4	642.4
100	45.5	98.0	7598.0	5023.6	624.3
125	44.0	99.0	7598.1	5041.4	606.7
150	43.0	99.5	7597.9	5059.5	589.5
185	41.5	100.0	7597.5	5085.4	566.0
200	40.0	100.5	7597.2	5096.8	556.2
225	37.5	102.0	7596.3	5116.3	540.5
250	34.5	103.0	7595.0	5136.5	525.8
275	32.5	103.0	7593.4	5157.2	512.0
300	30.0	103.5	7591.8	5178.6	499.1
337.7	24.5	104.5	7588.7	5211.9	481.8
347	23.5	105.0	7587.8	5220.4	478.0
375	15.5	106.0	7584.7	5246.6	468.7
383	13.5	106.5	7583.7	5254.3	466.7

REMARKS

337.7 - 347 m Minor bands of massive sulphide; pyrite 20% sphalerite 7% galena 3%.

2R13 CAMERA SURVEY (EASTMAN SINGLE SHOT)



Eastman Single shot camera

⊙ Dip

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 1.

Feature : Bedding, Foliation, Fragment – size & shape; Shearing, Fault, Vein – c carbonate, q quartz

Mineralization : Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		No core							
	4.0								
1.7	5	Lithic-crystal tuff agglomerate (Petrology QR 11 29.45m and 31.8m Greenschist-altered and incipiently sheared lithic-crystal tuff. Broadly Dacitic in composition.) Deeply weathered and heavily iron stained down to 18.55m. A few patches of carbonate spotted pale grey-green material, up to 3cm. across may represent unweathered kernels or rock fragments.	BROKEN CORE						Rare fine grained disseminated pyrite. Occasional irregular veinlets and aggregates.
0.85									
	10								
1.7									
0.6	15								
3.0									
	18.55								
0.7	20	Below 18.55m the rock becomes progressively fresher. Iron staining becomes restricted to fracture planes and persists down to 42.1m. Carbonate spotting to 3mm (after feldspar?) is conspicuous in the weathered zone down to about 31m. The fresh rock is generally grey-green in colour, dark green occasionaly. The most common of the rock fragments are dark green (chloritic) characterised by numerous carbonate spots (after plagioclase).	BROKEN CORE					23.1	Pyrite 5% fine grained and interstitial to the fragments.
0.5								24.0	Pyrite as above.
1.6									
	25								

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 2.

Feature : Bedding, Foliation, Fragment – size & shape; Shearing, Fault, Vein – c carbonate, q quartz

Mineralization : Trace 1%, Common 1% – 15%, Abundant 15% – 60%, Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG (TRACE / COMMON / ABUNDANT / MASSIVE)	DEPTH m	MINERALIZATION
1.6		Chloritised hornblende has been noted. These fragments are sub-angular to subrounded occasionally up to 6cm.			Pyrite as above.
1.2					
1.5		Less common are subrounded to rounded fragments, often to 6cm. occasionally to 20 cm of hard grey to buff siliceous dacitic lava containing numerous (to 2mm) pale green sericite aggregates after feldspar and occasionally vitric shards.			
1.3					
	30				
1.9		Other fragments include smaller, to 3cm, rounded grey siliceous chert? often containing fine disseminated pyrite and a pale green amoeboid shaped fragment sometimes to 3cm that may represent chloritised pumice. The matrix is fine grained pale green in colour and contains numerous small (1mm) carbonate blebs after feldspar.	F		
1.8					
1.1		This unit is relatively competent there are some fractures parallel to the very weak foliation at 30° - 45° to core axis.			
	35				
3.0					
3.0					
	40			40.4	Disseminated pyrite 1% as fine subhedral to euhedral grains. Occasional pyrite filled vugs to 3mm have been noted.
2.1					
3.0					
	45				
3.0					
	50				

DIAMOND DRILL LOG

Hole N° QR 13 Page N°. 3.

Feature : Bedding, Foliation, Fragment – size & shape, Shearing, Fault, Vein – c carbonate q quartz

Mineralization : Trace 1% Common 1% – 15% Abundant 15% – 60% Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0		As above.							Pyrite as above.
3.0	55								
3.0									
3.0	60	Fractures 40° - 60°, some parallel to very weak foliation at 40° to core axis.							
3.0									
3.0	65								
3.0									
3.0	70								
1.0									
1.0	71.8	Fault broken core.							
1.2	72.3	Below the fault, large (5-15cm) grey green, siliceous, dacitic lava fragments become more abundant and the unit is now an agglomerate.						73.5	Pyrite 5% fine grained and interstitial to the fragments.
	75								

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 4.

Feature : Bedding, Foliation, Fragment – size & shape; Shearing, Fault (F), Vein – c carbonate, q quartz

Mineralization : Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
3.0		Fractures generally 30° - 50° to core axis			Pyrite as above.
3.0		79.5 m, 3 cm carbonate-chlorite vein 20° to core axis.	c		
	80			80.0	Disseminated pyrite 1% as fine subhedral to euhedral grains.
	80.45	Fault zone sheared and broken core chlorite on slickensides at 20° to C.A.	F		
3.0	81.4		F		
3.0	85				
3.0		87 - 89 m autobrecciated.		87.5	Pyrite 5% fine grained and interstitial to the fragments. Some irregular veins and nettworks often intermixed with chlorite.
3.0	90				
3.0					
3.0	95		F	95.1	Disseminated pyrite 1% locally 5% as fine subhedral to euhedral grains and irregular veins and nettworks.
0.6			c		
1.4					
	100		F		

VISUAL LOG: TRACE, COMMON, ABUNDANT, MASSIVE

DIAMOND DRILL LOG

Hole N° QR 13 Page N°. 5.

Feature : Bedding, Foliation, Fragment – size & shape; Shearing, Fault (F), Vein – (c carbonate, q quartz)

Mineralization : Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG (TRACE / COMMON / ABUNDANT / MASSIVE)	DEPTH m	MINERALIZATION
0.90					
3.0		Very minor carbonate veining.			Pyrite as above.
3.0	105	104.15 – 104.7 m hornblende crystal? tuff band, bedded at 40° to core axis. Slump structures? suggest facing is up hole. Fractures 25° – 40° some parallel to weak foliation at 40° to core axis.			
3.0					
3.0		108.8 – 112.3 m hornblende crystal? tuff band, weakly bedded at approx. 40° to core axis. The unit is grey-green in colour and is characterised by subhedral green hornblende? crystals to 2 mm (now chloritised).			
2.4	110				
	112.3				
1.5		Below 112.3 m the rock is very similar to the "coarse agglomerate" described in QR 8 and the agglomerates described in QR 11 33.7 – 140.3 m and QR 12 26.85 – 116.4 m.	F		
2.1	115	Below the minor fault at 113.3 m the unit is often carbonated and small carbonate veins (average 5 mm) become common.			
3.0		Minor green illite – hydro – muscovite patches have been noted.		117.1	Pyrite 5% fine euhedral crystals interstitial to fragments.
				118.4	Disseminated pyrite 1% as fine subhedral to euhedral grains.
3.0	120				
1.5					
1.5			c F F		
	125				

Feature : Bedding, Foliation, Fragment – size & shape; Shearing, Fault, Vein – c carbonate, q quartz

Mineralization : Trace 1%, Common 1% – 15%, Abundant 15% – 60%, Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
3.0		As above.			Pyrite as above.
3.0	130	130.8-132 m numerous pale grey-green fragments to 4 cm of sericitised filamentus pumice. Weak foliation 30° - 40° and fractures 20° - 30° to core axis.		128 130	Pyrite 3% irregular veins and disseminations interstitial to the fragments, generally of fine euhedral crystals. Pyrite 5% locally 10% as irregular veins and nettworks and minor disseminations throughout the matrix of fine subhedral to euhedral grains.
2.4					
3.0	134.2 134.5 135	Fault sheared and broken core.			
0.50				137	
3.0	140				Rare disseminated pyrite fine subhedral to euhedral grains. Some very local pyrite on fracture planes.
1.2		140.7 - 143.5 m the unit is a pale buff colour due to carbonate alteration.			
1.8					
0.60					
1.5	145	Below 143.5 m the unit is dark green in colour due to abundant chlorite.	GENERALLY BROKEN CORE		
0.80					
0.90					
0.30					
3.0	150	148.6 m some fragments to 3 cm of fine crystalline magnetite.			

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 7.

Feature: Bedding, Foliation, Fragment – size & shape Og; Shearing, Fault F, Vein – c carbonate q quartz

Mineralization: Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
		As above.			Pyrite as above.
1.0	151.7			151.7	Pyrite 10% fine disseminations of generally euhedral crystals.
3.0		Gradational contact heavily carbonated down to 156 m. Grey pumice lithic tuff. Exhibits disrupted bedding? down to 156.3 m. Fragments include grey sericitised pyritic pumice and buff coloured dacitic lava with sericite aggregates after feldspar. Weakly sheared parallel to the foliation at 60° to core axis.			
	155				
	156.3				
3.0	156.7	Fault pug and sheared core.	F	156.7	Pyrite 15%, 60% where indicated. Occurs as irregular veins and nettworks of fine to coarse (5 mm) subhedral to euhedral crystals and as disseminations within the matrix.
3.0	160	Pumice lithic tuff agglomerate. Contains dark grey fragments to 4 cm of completely sericitised filamentus pumice containing abundant fine disseminated pyrite. The lithic fragments are buff coloured and subangular, often to 3 cm, dacitic lava characterised by pale green sericite replacing feldspar and devitrified glass shards? some pyrite in filling has been noted. The matrix is grey and highly siliceous.			
	162.7				
3.0		Grey pumice lithic tuff essentially the same as above, fragments rarely exceed 2 cm.			
	165	Silicification and sericitisation are common.			
3.0		Fractures at 40° - 45° to core axis are often parallel to the foliation.		165.65 165.9	Massive pyrite 90% fine to coarse (6 mm) euhedral crystals. Chalcopyrite has been noted.
				166.7 167.15	Pyrite 80% euhedral crystals to 6 mm in a grey siliceous matrix.
3.0	170				
3.0				172.1	Pyrite 10% disseminations, irregular veins and nettworks of fine to coarse (5 mm) subhedral to euhedral xtls
				174.35	Pyrite 80% as above.
	175				

DIAMOND DRILL LOG

Hole Nº QR 13 Page Nº 8.

Feature: Bedding, Foliation, Fragment - size & shape, Shearing, Fault, Vein - c carbonate, q quartz

Mineralization: Trace 1%, Common 1% – 15%, Abundant 15% – 60%, Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
		Pumice lithic tuff as above.			Pyrite as above.
3.0		Below 177.9 m to the contact at 184.7 m the unit is heavily carbonated		177.7 – 177.9	Pyrite 80% subhedral to euhedral crystals to 4 mm.
3.0	179.85 / 180	Coarse pumice lithic tuff similar to the above. Fractures at 30° to core axis, parallel to foliation.			
3.0					
1.0	184.7 / 185	Fault contact, pug 45° to core axis. Carbonated <u>lithic tuff-agglomerate</u>. Similar to the unit 0 - 151.7 m above and also QR 8 6.8 - 49.8 m, QR 11 and QR 12 as previously noted.	BROKEN CORE	184.7	Pyrite 1% small < 3 mm irregular veins of fine subhedral to euhedral crystals and fine disseminations within the matrix.
0.90					
0.90		Heavily carbonated down to 186.2 m. The lithic fragments are sub-angular to sub-rounded up to 6 cm and where evident are predominantly dacitic lava where feldspar has been replaced by aggregates of pale green sericite. Less common are fragments of filamentus pumice up to 5 cm that are characteristically completely sericitised. The matrix is fine grained and contains small carbonated relict feldspars.			
3.0	190				
3.0					
1.1	194 / 194.8	Fault pug and broken core.			
2.0	195	Fractures at 30° - 50° to core axis. From 197 m to 204 m the unit is weakly sheared and autobrecciated. Large rounded fragments exhibit alteration zoning.			
3.0	200				

DIAMOND DRILL LOG

Hole N° QR 13 Page N°. 9.

Feature : Bedding, Foliation, Fragment – size & shape; Shearing, Fault, Vein – c carbonate, q quartz

Mineralization : Trace 1%, Common 1% – 15%, Abundant 15% – 60%, Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0		Lithic tuff agglomerate as above.							Pyrite as above.
3.0	205	204.3 - 206 m tuffaceous - weakly bedded? at 35° to core axis.							
3.0									
3.0	210								
3.0		213 m minor irregular carbonate veins become common, the unit is now light grey in colour.							
3.0	215								
3.0		217.5 m carbonated fault breccia and quartz vein.							
3.0	220	220.5 m - 227.4 m heavily carbonated, numerous carbonate veins as indicated.							
3.0									
	225								

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 10.

Feature : Bedding, Foliation, Fragment – size & shape Og; Shearing, Fault F, Vein – c carbonate, q quartz

Mineralization : Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0		Lithic tuff agglomerate as above.	BROKEN CORE						Pyrite as above.
1.80									
3.0	230								
0.80									
3.0		233 - 257.3 m most fragments are pale buff-pink in colour due to carbonate alteration. Fractures 30° and 60° to core axis.	BROKEN CORE						
	235								
3.0									
	240								
3.0									
	241.7	Fault zone 50% sheared and broken core 40° to core axis.						241.7	Pyrite 5% generally as fine aggregates of subhedral to euhedral crystals interstitial to the fragments.
3.0	243.8								
	245	244.8 - 250.6 m autobrecciated, large rounded fragments of dacitic lava to 15 cm. The dacitic lava fragments are characterised by pale green sericite aggregates, often euhedral in outline, replacing feldspar laths. Green colouration due to illite-hydromuscovite.							
3.0									
3.0	250								

DIAMOND DRILL LOG

Hole N° QR 13 Page N°. 11.

Feature : Bedding, Foliation, Fragment – size & shape Og; Shearing, Fault F, Vein – c carbonate, q quartz

Mineralization : Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	251.2								Pyrite as above.
	251.8	Fault 60% sheared and broken core.	F						
3.0		252.8 - 257.3 m numerous filamentus pumice fragments coloured grey and yellow to buff, up to 5 cm in length. Foliation 45° to core axis.							
0.6									
	255								
2.4									
	257.3								
2.6		Colour change to light grey. Rounded dacitic lava fragments to 10 cm now predominate. Fractures 50° to core axis.	F						
	260								
2.9									
2.0			F						
	265								
3.0									
	267.1		F						
1.3		Gradational contact. Heavily chloritised to 268.1 m. Coarse lithic tuff							
	270	Often disrupted, where evident the lithic fragments are angular to sub-rounded generally <1 cm occasionally >3 cm. Often fragment outlines are obscure. The predominant fragments are dark grey and generally heavily sericitised and chloritised and often contain fine disseminated pyrite.							
3.0			F						
	272								
	272.7	Fault sheared and broken core.	F						
3.0		Larger, less common dark green carbonate spotted (feldspar relicts) fragments occur near the top of the unit. The matrix is ashy and light grey in colour.							
	275								

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 12.

Feature : Bedding, Foliation, Fragment – size & shape (Og), Shearing, Fault (F), Vein – (c carbonate, q quartz)

Mineralization : Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
2.6	275.4	Fault zone 6 pug zones and generally broken core. Sheared at approx. 50° to core axis.	F	276.2	Pyrite 10%, aggregates and disseminations of fine subhedral to euhedral crystals. Rare galena and sphalerite.
3.0	278	278.1 and 278.5 m 3 cm bands of grey chert, disrupted bedding? 30° - 60° to core axis.	F		
3.0	280	279.4 - 286.9 m silicified, including disseminated pyrite in a grey siliceous matrix. Foliation 40° to core axis.	F	281	Pyrite 60% semi-massive, as aggregates veins and bands at 65° to core axis. The pyrite is fine to coarse grained, some euhedral crystals to 5 mm.
3.0	285			284.3	Pyrite 10% as above.
3.0		287 - 288.6 m heavily chloritised, black chlorite bands up to 50 cm with numerous carbonate blebs to 2 mm.		286.4	Pyrite 40%, 90% where indicated, as disseminations, veins and bands at 50° - 70° to core axis. Pale brown sphalerite and galena have been noted.
3.0	290				
3.0			F	292	Disseminated pyrite 10%, up to 60% where indicated as minor stringers to 12 cm with trace light brown sphalerite and galena.
3.0	295	Fractures and foliation at 50° - 60° to core axis.	F		
3.0					
	300				

DIAMOND DRILL LOG

Hole N° QR 13 Page N°. 13.

Feature: Bedding; Foliation; Fragment – size & shape (Og); Shearing; Fault (F); Vein – (c carbonate, q quartz)

Mineralization: Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
3.0		Grey lithic tuff as above.	F		Pyrite as above, rare sphalerite and galena.
3.0	305				
2.6	305.1	Fault zone pug and broken core. 306.1 - 307.5 m pyrite in a brecciated quartz-carbonate gangue.	F	306.1	Pyrite 60% fine to medium grained subhedral to euhedral crystals.
	307.5		F C	307.5	
3.0	309.2	Feldspar quartz crystal tuff Light grey to buff in colour, and bedded? at 50° - 60° to core axis. White-yellow lenticular carbonate blebs to 1 cm represent relict feldspars. Very fine "sugary" quartz grains <1 mm are common.		309.2	Rare pyrite as small aggregates and occasional discrete euhedral crystals to 1 mm, 1% where indicated.
	310				
3.0					
	313.3	Bedded contact 50° to core axis.	F	313.3	Pyrite 10% as disseminations in the matrix and as irregular veins and nettworks of fine subhedral to euhedral crystals.
3.0	315	Thoroughly disrupted grey lithic tuff similar to the unit 267.1 - 309.2 m as above. Lithic fragments, where visible are dark grey, often sericitised, with difuse margins. The matrix is grey and siliceous often carbonated. A large 4 cm angular chert fragment has been noted. Foliation 40° - 50° to core axis.			Where indicated minor stringers of pyrite 30% with aggregates of sphalerite 20% > galena 5% Overall trace sphalerite and galena.
3.0	320				
3.0					
3.0	325				

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 14

Feature: Bedding, Foliation, Fragment – size & shape (Qg); Shearing, Fault (F), Vein – (c carbonate, q quartz)

Mineralization: Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	326							326	
3.0		Gradational contact. Pale buff coloured fine quartz crystal tuff. Essentially fine "sugary" quartz grains < 2 mm in a fine tuffaceous matrix. Bedded at 40° to core axis.							Rare pyrite, fine disseminations within the matrix.
	328.5							328.5	Pyrite 10% as above, very minor stringers (trace) sphalerite and galena.
3.0	330	Bedded contact 40° to core axis. Thoroughly disrupted grey lithic tuff, as 313.2 - 326 m above.							
	332.55							332.55	Rare pyrite, fine disseminations within the matrix 1% where indicated.
3.0	335	Fault contact, carbonated breccia. Light grey to buff coloured feldspar quartz crystal vitric tuff. White-yellow lenticular carbonate blebs to 1 cm represent relict feldspar. Small grey "sugary" quartz grains are common and numerous small < 3 mm pale green lenticular sericite aggregates represent relict vitric shards. Bedded at 40° to core axis. Foliation							
3.0		35° to core axis.							
	337.65							337.65	Pyrite 5% as disseminations, irregula veins, nettworks and bands associated with massive pale brown sphalerite 7% and galena 3%.
3.0	340	Sulphide zone. Grey siliceous lithic tuff agglomerate the lithic fragments are sub-angular up to 5 cm, dark grey, siliceous and generally contain abundant fine disseminated pyrite. The matrix is light grey fine grained and siliceous.	C						The sphalerite and galena occurs as indicated in semi massive bands at approx. 50° to core axis.
3.0									
								344.35	Pyrite 80% fine subhedral to euhedral crystals. Sphalerite 7% galena 3% as aggregates and bands at 50° to core axis.
	345	Massive sulphides (pyrite) in a grey siliceous and carbonated matrix.							
3.0								346	
								347	Pyrite 8%, sphalerite 5% galena 2%.
3.0	348.7								Pyrite 20%, 70% where indicated as disseminations, aggregates and massive bands of fine subhedral to euhedral crystals.
		Thoroughly disrupted, sheared and chloritised.							
	350								

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 15.

Feature : Bedding, Foliation, Fragment – size & shape; Shearing, Fault, Vein – c carbonate, q quartz

Mineralization : Trace 1%, Common 1% – 15%, Abundant 15% – 60%, Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
3.0		350.5 - 351.2 m carbonated breccia zone.			Pyrite 20% as above. Trace sphalerite > galena as very minor aggregates and bands.
0.60		353.6 m 3 cm disrupted chert band.			
2.4	355	Sheared and foliated at 45° to core axis.			
3.0					
3.0	360				
3.0	363.95			363.95	Pyrite 10% as disseminations, irregular veins and nettworks of fine to medium grained (2 mm) subhedral to euhedral crystals. Trace sphalerite and galena as minor stringers and aggregates.
		Lithic tuff agglomerate as 337.65 - 348.7 m as above.			
	365	The lithic fragments are generally larger than above, average 6 cm. Dark grey-green fragments with carbonate spots (relict feldspars) are common. Occasional fragments of light grey dacitic lava have been noted.			
3.0		Green illite-hydromuscovite have been noted.			
3.0	370	There are numerous very small carbonate veins throughout.			
		366m Sample for Petrology 155536			
3.0					
	375				

DIAMOND DRILL LOG

Hole N°. QR 13 Page N°. 16

Feature : Bedding, Foliation, Fragment – size & shape (Og); Shearing, Fault (F), Vein – (c carbonate, q quartz)

Mineralization : Trace 1%; Common 1% – 15%; Abundant 15% – 60%; Massive 60%

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	DEPTH m	MINERALIZATION
3.0		Lithic tuff agglomerate as above. Foliation and fracture 60° to core axis.			10% Pyrite as above.
3.0					
	380				
3.0					
	383	E.O.H.		383	

HOLE No QR 13 DATE 17/2/75

SAMPLE Nº	FROM (M)	TO (M)	IW (cm)	REMARKS	INITIAL ANALYSIS: %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: INT.	%Cu	%Pb	%Zn
156333	165.50	165.96	46	Datum block 164.00		3.13	0.10		0.06			50	125					
156334	165.96	166.56	60		<0.01		<0.01		<0.01			2	55					
156335	166.56	167.06	50	Block 167 Meas.166.96	<0.01		0.03		<0.01			7	125					
	165.50	165.96	46		3.13		0.10		0.06			50	0.1					

HOLE No QR 13 DATE 24/1/75

SAMPLE No	FROM (M)	TO (M)	IW (cm)	REMARKS	INITIAL ANALYSIS: %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: INT.	%Cu	%Pb	%Zn
156140	337.22	337.76	54	Datum block 335.0	0.02		0.04		0.06			< 2	< 20					
156141	337.76	338.37	61	338 ties in	0.02		0.46			2.86		3	100					
156142	338.37	339.00	63		0.04			1.14		2.00		5	220					
156143	339.00	339.55	55		0.01		0.14		0.44			3	75					
156144	339.55	340.05	50		0.34			3.35		13.7		27	500	1.7				
156145	340.05	340.55	50		0.02		0.82			1.41		5	>500	0.7				
156146	340.55	341.09	54	341 ties in	0.03		0.49		0.98			3	180					
156147	341.09	341.66	57		0.01		0.42		0.78			< 2	75					
156148	341.66	342.16	50		0.50			3.84		8.99		31	< 20					
156149	342.16	342.72	56		0.12			2.10		2.24		13	320					
156150	342.72	343.23	51		0.06			2.95		4.19		25	430					
156151	343.23	343.76	53		0.07			1.17		2.66		10	250					
156152	343.76	344.27	51	344 ties in	0.05			1.37		1.37		8	< 20					
156153	344.27	344.96	69		0.19			3.40		6.24		39	< 20					
156154	344.96	345.46	50		0.21			4.58		5.30		22	< 20					
156155	345.46	345.98	52		0.11			3.79		2.26		26	>500	1.0				
156156	345.98	346.41	43		<0.01		0.12		0.09			4	< 20					
156157	346.41	346.97	56	347 ties in	0.11			2.03		4.38		21	50					
156158	346.97	347.67	70		0.02		0.09		0.12			5	220					
				350 ties in.														
Weighted Average:																		
	339.55	345.98	643		0.14		2.35		4.15			17.7		0.37				