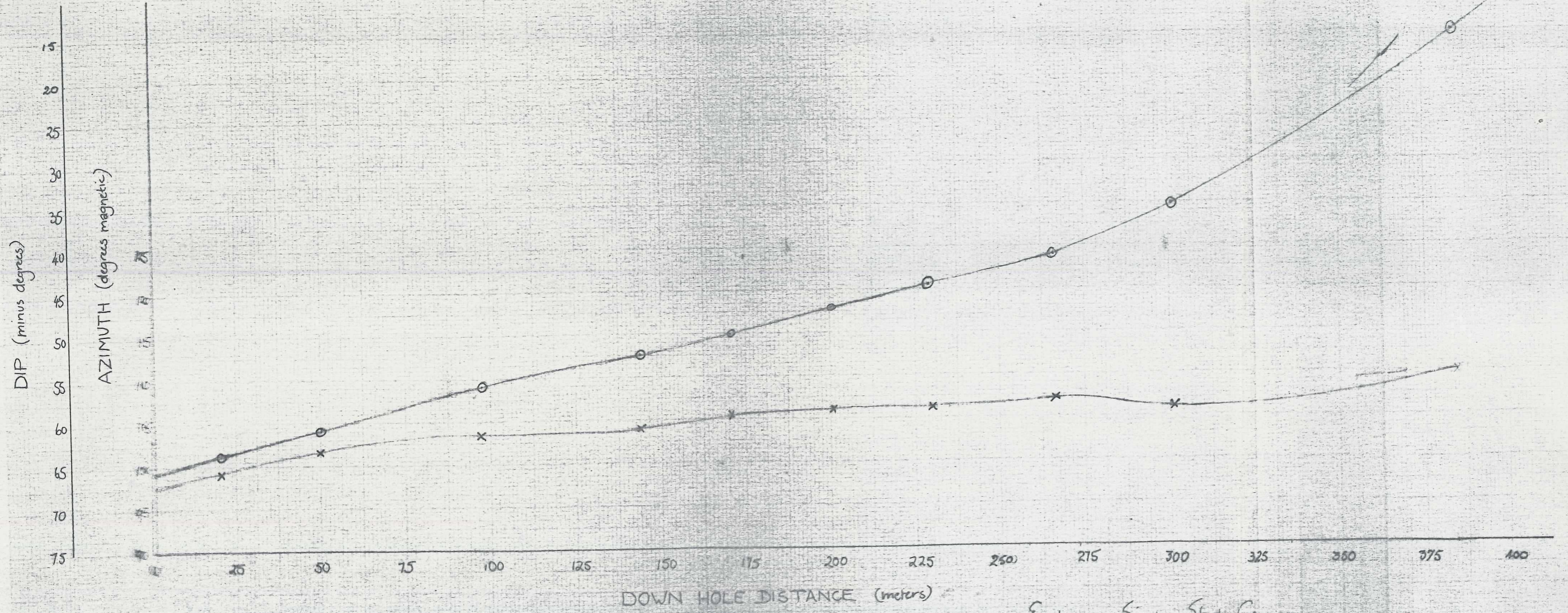





QR. 22.













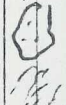
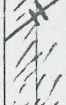

Eastman Single Shot Camera

- DIP
- × AZIMUTH

Feature : Bedding 
 Follation 
 Fragment-size & shape 

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
	3.05	Below 27.4 m, the unit becomes locally brecciated, with remaining kernels of partially altered grey-buff dacitic-lava? (to 15 cm) that have diffuse corroded margins.						
	30	Euhedral aggregates of pale green sericite and carbonate patches (to 15 cm) are possibly indicative of relic feldspar in these fragments.						
	3.05							
	3.05							
	35							
	3.05							
	3.05							
	40							
	3.05	41.6 - 43.6 m <u>Hornblende crystal tuff.</u> Fine "ashy" appearance, with green chlorite flecks replacing relic hornblende? crystals.						
	3.05							
	45	Occasional lithic bands have angular to sub-angular fragments (to 2 cm) of dacitic lava, feldspar crystal tuff lava (to 4 cm), grey chert (to 1 cm) with carbonated tension fractures, and pumice fragments (to 3 cm). The groundmass is grey, sericitised, carbonated and locally siliceous.						
	3.05							
	50							

27.4 Pyrite 2% as veins and aggregates usually along fractures, and as disseminations throughout the groundmass.

Secondary sphalerite has been noted associated with carbonate veins.

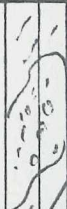
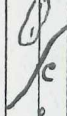




Feature :

Bedding 
 Foliation 
 Fragment- 
 size & shape




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
		Fractures usually 60° to the core axis but can be nearly perpendicular. Local speckled appearance is due to carbonate aggregates replacing feldspar? in fragments and in the groundmass.						Pyrite as above.
	55							
	60	Occasional bands of disrupted (slumped) bedding? can be found, and are characterised by brecciation, sericitisation and fragments of siliceous fine grey tuff.						
	65	The unit becomes increasingly siliceous below 64 m.						
	70	Illite-hydromuscovite has been noted.						
	75							

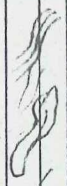

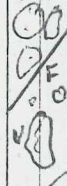




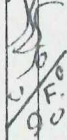
Feature :

Bedding 
 Foliation 
 Fragment-size & shape 




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
	3.05	The unit may be an autobrecciated vitric tuff.							Pyrite as above.
	3.05	Below 105 m, the unit becomes disrupted, siliceous and locally chloritised with numerous irregular quartz carbonate veins.							
	3.05	Fractures become ragged and are usually 30° - 40° to the core axis.							
	3.05								
	3.05	Sericitised, sheared <u>pumice vitric tuff</u> . Steel grey in colour with alternating dark and light bands (bedded pumice?) with pale green sericite aggregates replacing devitrified shards.						116.7	Pyrite 1% as fine disseminated euhedral-subhedral crystals, usually associated with sericitisation.
	3.05	<u>Fault zone</u> sheared and broken core.						120.2	Pyrite 5%, 50% where indicated, occurs as above.
	3.05	<u>Lithic tuff agglomerate</u> . Disrupted and sheared, with chloritisation, sericitisation common, and irregular abundant carbonate aggregates and veinlets.							
	3.05	Fine grey siliceous tuff bands and fragments also occur.							



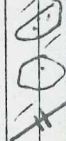


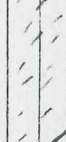
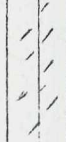
Feature :

Bedding 
 Foliation 
 Fragment-size & shape 




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
	3.05	Below 124.7 m, the unit has a mottled grey appearance due to its pyroclastic nature. It is no longer disrupted and can be correlated with QR 15 2.3 - 21.7 m.						
	128.2	<u>Pumice vitric tuff.</u> Similar to unit above between 120 - 116.7 m. Locally disrupted (slumped?) with fine charcoal grey siliceous tuff bands (to 1 cm) showing drag folds. Sericitised relic glass shards and bands have abundant pyrite disseminated throughout.					128.2	Pyrite 2% as aggregates and fine disseminations of euhedral to subhedral crystals.
	130							
	3.05							
	2.15							
	135	Quartz and carbonate are common as irregular bands, veins and aggregates.						
	1.2							
	137	<u>Fault zone</u> 50% sheared and broken core. Localised fault pug with quartz and carbonate veins common.						
	3.05							Trace galena and sphalerite noted.
	140	<u>Vitric tuff.</u> Light grey with characteristic pale green sericite aggregates (to 3 mm) replacing relic glass shards.					140	Pyrite 5% as fine disseminations and as aggregates along fractures and shears.
	3.05	Sugary quartz crystals (<1 mm) occur throughout the unit and local bands of sericitisation give the unit a darker colour.						
	145	Carbonate alteration is common around brecciated areas and as random aggregates and veins.						
	3.05							
	150							





Feature :

Bedding 
 Foliation 
 Fragment - size & shape 

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
		The matrix is light grey ashy usually sericitised and occasionally carbonated.						Pyrite as above.
	3.05							
	155							
	3.05							
	3.05	Some large fractures are "healed" with grey chert containing carbonated tension fractures.						
	160							
	3.05							
	3.05	Fractures are ragged and can vary between perpendicular and 20° to the core axis. Foliation is usually between 30° and 40° and is emphasised by rough alignment of sericite aggregates.						
	165							
	3.05							
	170	Illite-hydromuscovite has been noted.						Galena and sphalerite has been noted.
	1.55							
	1.5							
	3.05							
	175							

DIAMOND DRILL LOG




Feature: Bedding
 Foliation
 Fragment-size & shape




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
						Pyrite as above.
	3.05					
	180	Below 179 m, the unit is disrupted sericitised and has chert fragments and bands.				
	3.05	Quartz veins (to 3 cm) are common.				
	3.05					
	184.7				184.7	Pyrite 15%, 70% where indicated, as veins and aggregates of euhedral to subhedral crystals, and as a fine dust associated with sericitisation.
	185	Disrupted and thoroughly sericitised <u>fine tuff</u> .				
	3.05	Grey to green-grey with random lithic fragments of filamentous pumice and grey chert.				
	3.05	Some siliceous grey tuff fragments (to 5 cm) have carbonate aggregates rimmed with pyrite.				
	3.05					
	190					
	3.05					
	3.05					
	195	Below 195 m, carbonate veins and aggregates are common and thoroughly sericitised bands (to 2 m) of fine pumice tuff, with abundant dusty pyrite have a cyclic occurrence.				
	3.05					
	3.05					
	200					


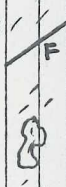
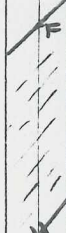
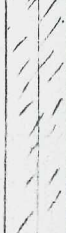

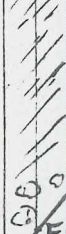
Feature :

Bedding 
 Foliation 
 Fragment- 
 size & shape

Shearing 
 Fault 
 Vein -  c carbonate
 q quartz

Mineralization :












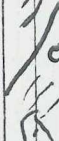


Trace 1 %- 5 %
 Common 5 %- 15 %
 Abundant 15 %- 60 %
 Massive 60 %

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON ABUNDANT MASSIVE	DEPTH m	MINERALIZATION
	200.5 - 203.5	<u>Lithic tuff</u> . Sericitised filamentous pumice with fine dusty pyrite, and sub-angular fragments (to 2 cm) of vitric tuff containing sericitised glass shards are common. Aggregates of yellow-brown carbonate and quartz veins have random occurrence while the matrix is grey, "ashy" and locally silicified.				Pyrite as above.
	205	The finer unit appears to be bedded? at 60° to the core axis while fractures vary between 80° and 30° to the core axis. Below 206 m, the unit becomes very disrupted.				
	207.5 - 208	<u>Fault zone sheared and broken core.</u> Light grey vitric tuff. Similar to the unit above between 140 - 170 m. Local sericitised bands appear dark green-grey. Patches of carbonate alteration have a pale yellow-brown hue.			207.5	Pyrite 3% as fine disseminations through the matrix and as aggregates along fractures and shears. Commonly associated with carbonate veins.
	210					
	215	Pale green sericite aggregates (to 2 mm) replacing devitrified shards? allign to the foliation at 30° - 40° to the core axis. Occasionally the unit appears to be bedded at 30° to the core axis.				
	220	The matrix is light grey, "ashy" and often has fine sugary quartz crystals.				
	221.7	<u>Charcoal grey, sericitised, pumice tuff Agglomerate</u> . Large (to 6 cm) angular to sub-angular fragments of vitric tuff, thoroughly sericitised with associated fine pyrite. Filamentous pumice is also common, and has "sheared?" sericite aggregates			221.7	Pyrite 5% as above.
	225					

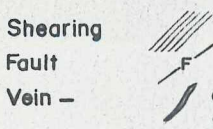
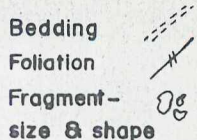
Feature : Bedding 
 Foliation 
 Fragment-size & shape 

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
		(to 2 mm) (relic vitric shards).						Pyrite as above.
	3.05							
	3.05	Locally disrupted, the matrix is light grey, "ashy" and has sugary quartz crystals (<1 mm), together with carbonate aggregates (<1 mm).						
	230	Foliation is at 30° to core axis while fractures are at 30° - 50° to the core axis.						
	3.05							
	234.5							
	235	<u>Fault zone</u>						
	3.05	Thoroughly broken, sheared and disrupted with abundant fault pug. Sericitisation and carbonate veins common.						
	3.05							
	240							
	3.05							
	244.7							
	245	The unit is dark grey-green and thoroughly sericitised.						
	3.05							
								
								
	250							

Feature :



c carbonate
q quartz

Mineralization :


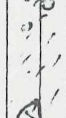



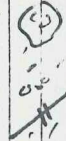
Trace	1 %- 5 %
Common	5 %- 15 %
Abundant	15 %- 60 %
Massive	60 %

CORE REC'D	DEPTH m	GEOLOGY	VISUAL LOG	TRACE COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		Minor sericitised filamentous pumice bands to 1 cm have been noted.						
	3.05	Fractures are irregular and carbonate veins and rounded aggregates are common.						
	3.05							
	305							
	3.05	Between 308 - 322 m <u>vitric tuff lava</u> . Occasionally pumiceous, lithic fragments are less common and abundant pale green sericite lens shaped aggregates align to the foliation of 40° to the core axis.						
	310							
	3.05							
	3.05							
	315							
	3.05							
	3.05							
	320							
	3.05	Below 322 m the unit is the same as above 308 m but becomes disrupted, thoroughly chloritised and is usually broken and sheared.						
	3.05							
	325							

Feature : Bedding 
 Foliation 
 Fragment-size & shape 

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
		Some lava clasts? have pinkish aggregates (to 5 mm) possibly albitised? feldspar.				
	3.05					
	3.05	330 Bleached areas have been completely carbonated, with some minute sugary quartz crystals remaining.				
	3.05	332.6 <u>Fault zone</u> 80% sheared and broken core.				
	3.05	334.7 <u>Thoroughly sericitised, disrupted pumice lithic tuff.</u> Possible west lens position.			334.7	Pyrite 3% except where indicated as veins, disseminations and aggregates of euhedral to subhedral crystals.
	3.05	338.2 <u>Grey pumice lithic tuff agglomerate.</u> Locally sericitised with pale grey angular to rounded fragments (to 10 cm) of pumice, sometimes vitric, with pale green sericite and carbonate, replacing feldspar? and glass.			241	Pyrite 20%.
	3.05				242	
	3.05	345 Sericitised filamentous pumice and angular to rounded charcoal grey lithic fragments (chert?) are common.				
	3.05					
	350					




DIAMOND DRILL LOG

 Hole No. **QR 22**

Page No. 15.












Feature:

Bedding 
 Foliation 
 Fragment- 
 size & shape

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
	3.05	The matrix is fine grained, grey and has disseminated pyrite throughout.							
	3.05	Foliation is about 40° - 50° to the core axis.							
	3.05	Fractures are usually 50° to the core axis.							
	355								
	3.05								
	360								
	3.05								
	365	Some sections of the unit have a bleached appearance because of extensive carbonate replacement.							
	3.05								
	370	Irregular carbonate veins and aggregates are abundant.							
	3.05								
	375		