



## DRILL HOLE RECORD

**Location** Que River      **Property** Mining Lease 2M/75      **District** Tasmania, Australia.      **Bearing (M)** 97° 31'      **Hole No** QR 74D  
**Commenced** 19.12.1975      **Completed** 8.1.1976      **% Recovery** 90      **Grid bearing (M)** 8° 45'      **Date** 8.1.1976  
**Objective** To test P south lens 7520N 480 RL.      **Core size** NQ to 117 m BQ to 329 m E.O.H.      **Logged** C.H. YOUNG  
**Co-ordinates** 7516.9N 5017.3E      **Dip** 59° 34'      **Alt./R.L.** 701.3

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARINGS(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
0	60	96	Theodolite	0	59.5	97.5	7516.9	5017.3	701.3	
0	59° 34'	97° 35'	Clinometer	25	59.75	97.5	7517.18	5029.94	679.73	287.6 - 290.15 m Semi-massive to massive pyrite with sphalerite 5%-10%, galena 2%-5% as aggregates, irregular veins and stringers.
32	60	102	Surveyors Pick up Eastman Down hole Camera	50	60.0	97.5	7517.45	5042.48	658.11	
64	59.5	101.5	"	75	60.0	97.5	7517.72	5054.98	636.46	
92	60	102	"	100	60.0	97.5	7517.99	5067.48	614.81	
121	60	105.5	"	125	59.75	98.0	7518.21	5080.02	593.18	
151	58.5	103	"	150	58.5	98.5	7518.32	5092.85	571.73	
184	56.5	104	"	175	57.0	99.25	7518.29	5106.19	550.59	
216	53	105	"	200	54.75	100.0	7518.08	5120.21	529.90	299.85 - 308.9 m Bands and veins of semi-massive to massive pyrite with minor sphalerite, galena and chalcopryite.
248	48	106	"	225	51.5	101.0	7517.61	5135.20	509.90	
281	44	108.5	"	250	48.0	101.75	7516.87	5151.32	490.83	
314	39.5	108.5	"	275	45.0	102.75	7515.82	5168.49	472.70	
				300	41.5	103.75	7514.38	5186.64	455.58	
				329	37.0	105.0	7512.18	5208.97	437.25	



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0	60	98	Theodolite	0	59.5	97.5	7516.9	5017.3	701.3	
0	59° 34'	97° 35'	Clinometer Surveyors Pick up	25	59.75	97.5	7517.11	5029.94	679.73	287.6 - 290.15 m Semi-massive to massive pyrite with sphalerite 5%-10%, galena 2%-5% as aggregates, irregular veins and stringers.
32	60	102	Eastman	50	60.0	97.5	7517.32	5042.49	658.11	
64	59.5	101.5	Downhole	75	60.0	97.5	7517.52	5054.98	636.46	
92	60	102	Camera	100	60.0	97.5	7517.73	5067.48	614.81	
121	60	105.5	"	125	59.75	98.0	7517.89	5080.03	593.18	
151	58.5	103	"	150	58.5	98.5	7517.93	5092.86	571.73	299.85 - 308.9 m Bands and veins of semi-massive to massive pyrite with minor sphalerite, galena and chalcopyrite.
184	56.5	104	"	175	57.0	99.25	7517.83	5106.19	550.59	
216	53	105	"	200	54.75	100.0	7517.54	5120.21	529.90	
243	48	106	"	225	51.5	101.0	7517.00	5135.20	509.90	
281	44	108.5	"	250	48.0	101.75	7516.17	5151.32	490.83	
314	39.5	108.5	"	275	45.0	102.75	7515.02	5168.49	472.70	
				300	41.5	103.75	7513.50	5186.62	455.58	
				329	37.0	105.0	7511.17	5208.94	437.25	





# DIAMOND DRILL LOG

**Feature :** Bedding Shearing   
 Foliation Fault **F**  
 Fragment-size & shape 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
	27.0	No Core.							
1.1		DP Green chloritised locally carbonated feldspar crystal lava breccia. (Feldspar porphyry lava).	BROKEN CORE						Pyrite 1%-3% as disseminations and aggregates of fine subhedral to euhedral crystals, generally interstitial to the fragments.
1.1		Fragments up to 6 cm are irregular in shape, outlines are commonly obscure. The fragments are characterised by irregular to sub-rounded aggregates of white carbonate after feldspar up to 4 mm, and occasionally pinkish albite, in a fine grained green (chloritic) groundmass.							
1.9	30	The matrix is of similar composition and texture to the fragments, the rock appears to be autobrecciated lava.	BROKEN CORE						
0.25		Occasional sub-rounded fragments of buff coloured fine grained tuff lava to 6 cm are considered to be xenoliths.							
0.75	35	The core is broken and blocky due to a prominent jointing, joints are generally chlorite lined occasionally with manganese. Joints occur sub-parallel to and at 20°, 30°, 80° to core axis.	BROKEN CORE					35.0	Pyrite 5%-10% as disseminations and aggregates.
1.2		48.3 - 53.0 m Fragments to 6 cm of vesicular lava (similar to the matrix) have been noted.						35.8	Pyrite 1%-3% as above.
2.0			BROKEN CORE						
1.0	40							38.8	Pyrite 4%-10% as disseminations and aggregates of fine subhedral to euhedral crystals interstitial to the fragments.
1.0			BROKEN CORE						
1.8									
1.2			BROKEN CORE						
1.5	45								
1.5			BROKEN CORE					45.7	Pyrite 1%-3% as above.
1.2									
1.8			BROKEN CORE						
1.8	50							49.0	Pyrite rare.



# DIAMOND DRILL LOG

Hole No QR74D Page No 3.

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment - size & shape 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 rare.
	3.0								
	3.0								
	55								
	3.0								
	59.0	58.1 - 59.4 m Breccia zone, core is "fragmental" in appearance, recemented with carbonate.							
	60	Below 59 m the rock is not obviously brecciated or fragmental; green chloritised locally carbonated feldspar crystal lava.							
	3.0	Aggregates of green chlorite to 3 mm appear to replace pyroxene.							
	3.0								
	65								
	3.0	66 m Joint 20° to core axis, slickensides parallel to core axis. Joints are commonly chlorite lined.							
	3.0								
	70								
	3.0								
	75								

BROKEN CORE



# DIAMOND DRILL LOG

Hole No QR74D Page No 4.

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
	3.0	Chloritised locally carbonated lava as above.							Pyrite rare.
	3.0								
	80								
	3.0								
	2.0								
	84.2								
	85	As above, chloritised locally carbonated feldspar crystal lava breccia.							
	1.0	Fragments commonly up to 3 cm are angular in outline.							
	1.5								
	0.5								
	1.6								
	90	Below 90 m minor carbonate veins to 1 cm become common.							
	0.6	Chlorite and manganese has been noted on joints.							
	1.5								
	0.9								
	1.0								
	95								
	0.5								
	0.4								
	0.4								
	0.6								
	0.6								
	0.2								
	0.6								
	0.4								
	0.2								
	1.1								
	100								

BROKEN CORE





# DIAMOND DRILL LOG

Hole No QR74D Page No 6.

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment - size & shape 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	The rock immediately surrounding irregular fractures is often altered grey in colour due to the introduction of secondary pyrite.							Pyrite 1%-3% as above.
	3.0								
	130								
	3.0								
	1.6								
	135								
	1.4	136.3 - 136.9 m Coarse tuff band, fragments of DTL in a grey ashy matrix.							
	2.5								
	1.1								
	140								
	1.2								
	1.0								
	0.7								
	0.3								
	145	144.5 - 158.6 m The rock is green in colour due to increased chlorite alteration and is less brecciated.							
	1.5	Shearing parallel to foliation? at 40° to core axis.							
	3.0								
	2.0								
	150								

BROKEN CORE



# DIAMOND DRILL LOG

Feature : Bedding Shearing   
 Foliation Fault   
 Fragment - size & shape 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
		DTL as above.							Pyrite 1%-3% as above.
	1.0								
	3.0								
	155								
	3.0	158.6 - 169 m The rock is fractured and grey pyritic alteration is common about the fractures.							
	0.5	Aggregates of green illite-hydromuscovite have been noted.							
	1.1								
	159.5								
	1.2	160 <u>Fault zone.</u> Pug and carbonate cemented breccia.							
	0.3	161.0							
	1.5	Fragments are often elongated, plastically deformed and sericitised.							
	1.5								
	1.7	165							
	0.9	166.2 <u>Fault zone.</u> Pug, carbonate cemented							
	0.9	167.0 breccia.							
	2.0								
	3.0	170 169.8 - 174.5 m Chloritic brecciated lava and minor grey lithic tuff bands, crude bedding 30° - 40° to core axis.							
	3.0	175 174.5 - 189.2 m Pink - buff occasionally grey DTL generally massive lava occasionally brecciated.							

BROKEN CORE





# 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	MINERALIZATION		
				TRACE	COMMON	ABUNDANT
	1.5	DTL > PyP <sub>1</sub> as above.				Pyrite 2%-3% as above.
	1.1					
	1.0	203 - 204.3 m Lava breccia fragments of DTL to 3 cm have been noted.	BROKEN CORE			
	1.0	204.8 - 205.2 m Carbonate cemented breccia.				
	1.0	The rock is commonly "spotted" with white rounded carbonate aggregates to 3 mm - filled vesicles?	BROKEN CORE			
	1.0					
	1.0					
	3.0					
	210					
	3.0					
	215	214.8 - 215.1 m Carbonate cemented breccia.	BROKEN CORE			
	2.2					
	1.2					
	2.8					
	220					
	0.9	Below 223.1 m "vesicles" are less common, the rock appears to be more fragmental - lava breccia.	BROKEN CORE			
	0.2					
	0.5					
	0.6					
	1.2					
	225					



# DIAMOND DRILL LOG

Hole No QR74D

Page No 10.

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
1.7		DTL > PyP <sub>1</sub> as above.							Pyrite 2%-3% as above.
3.1									
230									
3.0									
2.8									
235									
0.4									
2.1									
1.3									
3.0									
240									
3.0									
245									
245.5		Gradational Contact.							
3.0		PyP <sub>1</sub> Grey sericitised locally carbonated coarse lithic tuff. (Sheared) Lithic fragments to 3 cm are irregular in outline elongated in the direction of shear at 40° to core axis. Often the fragments have a "shredded" appearance. They consist of pale cream-green porphyritic lava and fine grey tuff.							Pyrite 3%-5% as disseminations, aggregates and irregular veins of fine subhedral to euhedral crystals.
1.2									
250									



# DIAMOND DRILL LOG

Hole No QR74D Page No 11.

Feature : Bedding Shearing   
 Foliation Fault  $F$   
 Fragment-size & shape 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
1.8		Fragments are aligned in the direction of shear or foliation at 40° to core axis.							Pyrite 3%-5% as above.
1.3		The matrix is fine grained grey and pyritic. 251.7 - 252 m Sericite alteration zone.						251.7 Pyrite 10% 252.0	
1.4	252.8	DTL Grey carbonated feldspar crystal tuff lava. Feldspar crystals are represented by aggregates of sericite to 1 mm. PyP <sub>1</sub> as above.						252.8	Pyrite <1% as disseminations.
	254	Contact 30° to core axis.						254.0	Pyrite 30% as disseminations and aggregates.
1.5	254.8	DTL Grey-buff carbonated and pyritised feldspar crystal tuff lava. Feldspar crystals are represented by aggregates of sericite to 3 mm elongated in the direction of shear at 40° - 50° to core axis. The groundmass is fine grained and siliceous. Fault Contact.						254.8	Pyrite 1%-2%.
1.5	255							255.4	Pyrite 30%.
								255.7	Pyrite 30%.
1.5								256.1	Pyrite 30%.
								256.4	Pyrite 30%.
								256.6	Pyrite 30%.
								256.9	Pyrite 30%.
1.5	258	Fault Zone. Pug sheared & broken core						258.0	Pyrite 5% locally 10% as disseminations.
	258.3							258.5	Pyrite 30%.
0.6		PyP <sub>1</sub> Grey sericitised carbonated locally chloritised coarse lithic tuff. Lithic fragments to 3 cm are irregular in outline - elongated in the direction of shear at 40° to core axis. They consist of pale green sericitised lava?, feldspar crystal tuff lava, fine grey tuff, pyrite and occasionally chert.						258.7	Pyrite 3%-5% as disseminations, aggregates, fragments irregular veins and bands of fine subhedral to euhedral crystals.
	260							261.6	Pyrite 30%.
2.5								262.6	20 cm Pyrite 40%.
2.4		The rock is heavily pyritised and often pyrite completely replaces the host. The matrix is light grey in colour siliceous and fine grained.						264.3	Pyrite 50%, 60% where indicated as aggregates and bands of subhedral to euhedral crystals in a carbonate matrix.
2.0	265	Cleavage parallel to foliation? 40° to core axis.						265.9	Pyrite 3%.
								266.5	Pyrite 10%, locally 15%.
								267.1	
3.0								267.9	Pyrite 60%.
									Pyrite 10%.
								269.3	Pyrite 50%, locally 60% as disseminations, aggregates and irregular veins.
	270							271.0	Pyrite 5%.
3.0								271.7	Pyrite 60% as disseminations, aggregates and irregular veins.
								273.5	Pyrite 5%, locally 10%.
3.0									
	275								





