DRILL HOLE RECORD

Location Que River **Property** Mining Lease 2M/75 **District** Tasmania, Australia. **Bearing (M)** 102° 28' **Hole No** QR 78

Commenced 14.1.1976 **Completed** 17.1.1976 **% Recovery** 99 **Grid bearing (M)** 8° 45' **Date** 19.1.1976

Objective To investigate IP, geochemical and gravity anomalies east of S lens. **Core size** NQ to 45 m BQ to 140 E.O.H. **Logged** C.H. YOUNG

Co-ordinates 7451.29N 5315.11E **Dip** 49° 13' **Alt./R.L.** 714.44

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
0	50	98	Theodolite & Clinometer	0	49.25	102.5	7451.3	5315.1	714.4	
29	48	109	Eastman Single Shot	25	48.0	102.75	7450.18	5331.59	695.64	
60	46.5	-	Downhole	50	47.25	105.5	7448.60	5348.36	677.17	81.5 - 82.1 m and 83.6 - 84.0 m Stringers of semi-massive to massive pyrite with associated chalcopyrite may be source of I.P. and Geochemical anomalies.
67	46.5	114	Camera	75	46.0	107.75	7446.25	5365.36	659.00	
90	46	-	"	100	44.0	107.5	7443.52	5382.82	641.33	
100	43.5	114.5	"	125	39.5	106.0	7440.94	5401.28	624.69	
130	38	111	"	140	35.0	105.5	7439.48	5413.12	615.62	

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23	48	109	Eastman Single Shot	25	48.0	102.75	7450.18	5331.59	695.64	
60	46.5	-	Downhole	50	47.25	105.5	7448.60	5348.36	677.17	81.5 - 82.1 m and 83.6 - 84.0 m
67	46.5	114	Camera	75	46.0	107.75	7446.25	5365.36	659.00	Stringers of semi-massive to massive pyrite with associated chalcopyrite
90	46	-	"	100	44.0	107.5	7443.52	5382.82	641.33	may be source of I.P. and Geochemical anomalies.
100	43.5	114.5	"	125	39.5	106.0	7440.94	5401.28	624.69	
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DIAMOND DRILL LOG

Hole N° [illegible] 78 Page N° 1.

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	DEPTH m	MINERALIZATION
	0	No Core.			
	2.0				
1.4		PyP_3 Grey-cream silicified locally carbonated and sericitised feldspar quartz crystal tuff lava. Feldspar is represented by aggregates of pale green sericite to 3 mm, often euhedral in outline. Aggregates of cloudy grey quartz 3 mm are common. This rock appears to be similar to DTL, disseminations and aggregates of pyrite randomly distributed throughout alters the buff-cream rock to a grey colour and has given the rock a "mottled" appearance. The groundmass or matrix is fine grained and siliceous. Aggregates of green illite-hydromuscovite have been noted.		3.2	Py 3%-5% including minor veins < 1 cm of sphalerite and galena trace overall.
				4.0	15 cm Py 30%, Sph 5%, Gn 3% as irregular vein.
3.0	5			5.0	3 cm Py 20%, Sph 3%, Gn 2% with quartz vein 15° to C.A.
					2 cm Py 50%, Sph 5%-10%, Gn 3%-5%, vein parallel to C.A. (5.0 - 5.8 m).
1.0				6.9	2 cm Py 30%, Sph 10%, Gn 5%.
				8.0	2 cm Py 30%, Sph 3%-5%, Gn 3% as an irregular vein.
3.0	10				
3.0				12.8	Pyrite 10%, locally 15% sphalerite 1%-2%, galena 1% as disseminations, aggregates, irregular veins, and stringers.
2.0	15		broken core		
0.5		Below 16.3 m the rock is generally dark grey in colour due to increased sericite and pyrite alteration.			
0.5				17.3	
3.0					Py 3%-5% trace Sph, Gn as disseminations, aggregates and irregular veins.
	20				
3.0		21.3 m Minor shale/chert band 1 cm wide at 50° to core axis.			
	23.8				
3.0		PyP_1 Grey sericitised and silicified coarse lithic tuff/lithic tuff agglomerate.			
	25				

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DIAMOND DRILL LOG

Hole N° QR 78 Page N° 2.

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	MINERALIZATION
3.0		Lithic fragments from 0.5 mm to 3 cm are generally sub-rounded occasionally irregular in outline. They consist of altered porphyritic dacite, sericitised trachyte and recrystallised chert. Irregular quartz aggregates may represent devitrified glass. Shredded streaks of sericite occasionally wrap around fragments. The matrix is dark coloured and consists mainly of quartz.	Pyrite 3%-5%, trace Sph, Gn as above.
2.0	30	Grey sericitised and silicified lithic tuff similar to above 30 m.	27.2 Minor stringers to 3 cm of massive Sph > Gn. Overall 1 pyrite 5%, Sph 2-5%, Gn3%.
1.0	30.8	Grey sericitised lithic tuff agglomerate as above 30 m.	28.1 Pyrite 3%-5% as disseminations, aggregates, irregular veins and occasional fragments.
2.0		Fragment alignment 40° to core axis.	
1.0			
3.0	35		35.5 5 cm Pyrite 30% as an irregular vein.
3.0			
3.0	40		
1.0			
1.5	45		
3.0			
	50		

VISUAL LOG: TRACE, COMMON, ABUNDANT, MASS.VE

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DIAMOND DRILL LOG

Hole N° QR 78 Page N° 3.

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	DEPTH m	MINERALIZATION
3.0		Grey lithic tuff agglomerate as above.			Pyrite 3%-5% as above.
3.0	55				
2.0					
1.0					
3.0	60				
3.0				63.0	5 cm Pyrite 30%.
2.0	65			65.2 65.7	Pyrite 40% as disseminations and aggregates of fine subhedral to euhedral crystals.
0.3					
0.7					Pyrite 3%-5% as above.
3.0	69.4				
	70	Grey sericitised locally carbonated feldspar crystal lithic tuff/coarse lithic tuff. Feldspar crystals are represented by aggregates of pale yellow-white carbonate to 2 mm. Commonly in fragments but also throughout the matrix. Lithic fragments up to 3 cm in size consist of feldspar crystal tuff lava with either sericite or carbonate replacing feldspar (two ages). The matrix is grey and siliceous.		70.1	10 cm pyrite 15%.
3.0					
	74.4	Grey silicified and carbonated lithic tuff agglomerate. A rather varied rock			
	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	DEPTH m	MINERALIZATION
3.0		partly disrupted, lithic fragments are irregular to sub-rounded in outline from 5 mm to 5 cm. and consist of light grey feldspar crystal tuff lava with sericite after feldspar. Wisps and irregular bands of sericite have been noted.			Pyrite 3%-5% as above.
3.0		The matrix is fine grained grey and siliceous.			
	80				
3.0				81.0	10 cm Pyrite 50%.
				81.5	Pyrite 60%, Cpy 3%-5%.
				82.1	Pyrite 3%-5%.
				83.0	10 cm Py 40%, Cpy 1%-2%.
2.5				83.5	Py 20%, Cpy 30%, Sph 5%,
				84.0	Gn 2% as a stringer.
	84.4				
	85	Fault zone. Pug, breccia sheared and broken core. Some carbonate veining. 40° to core axis.			Py 3%-5% as disseminations, aggregates and irregular veins.
	86.0				
3.1		86.8 m 20 cm Buff to off-white carbonate alteration zone.			
		Grey silicified locally carbonated lithic tuff agglomerate. Similar to above 84.4 m.			
		Down to 91 m lithic fragments are more distinct, commonly grey-green locally chloritised feldspar crystal tuff or lava (similar bottom of QR 10).			
3.0	90			90.5	15 cm Py 20%.
		Below 91 m fragments are generally grey in colour.		91.4	10 cm Py 30% rare Cpy.
3.0					
	95	95 - 95.6 m Disrupted grey chert bands <1 cm wide.			
3.0					
3.0					
	100			99.9	2 cm Py 30%.

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DIAMOND DRILL LOG

Hole N° QR 76 Page N° 5.

Feature : Bedding, Foliation, Fragment: size & shape 0%, 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		Aggregates of green illite hydromuscovite have been noted within the fragments.							Pyrite 3%-5% as above.
3.0	105								
3.0									
	110								
3.0		113 m 10 cm light grey feldspar crystal tuff lava associated with carbonate cemented breccia.							
3.0	115								
3.0									
3.0	120								
	121.1							121.1	
	121.7	DTL light grey vesicular feldspar crystal tuff-lava. Vesicles are carbonate filled.						121.7	Pyrite rare.
3.0		PyP_1 Contact 40° to core axis. Grey silicified and carbonated feldspar crystal lithic tuff agglomerate. Similar to above 121.1 m. Feldspar crystals are represented by irregular aggregates of white carbonate randomly distributed throughout the matrix.						126.4	Pyrite 3%-5% as disseminations and aggregates. 30 cm pyrite 20% associated with quartz carbonate veins.
	125								

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DIAMOND DRILL LOG

Hole N° QR 78 Page N° 6.

Feature : Bedding, Foliation, Fragment - size & shape 0%, Shearing, Fault F, 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	DEPTH m	MINERALIZATION
5.0		PvP_1 as above. Lithic fragments are commonly feldspar crystal tuff or lava with irregular aggregates of white carbonate to 3 mm after feldspar? in a grey sericitised and pyritised siliceous groundmass. The matrix tends to be light blue-grey in colour and is siliceous.	c		Pyrite 3%-5% as above.
3.0				129.2	20 cm pyrite 30% as an irregular vein.
	130				
3.0					
3.0	135				
3.0				138.0	5 cm pyrite 10% an an irregular vein.
0.5	140	E.O.H.	c		