Cominco

DRILL HOLE RECORD

Location Que River | Property ML 3M/75 | District Tullah, Tasmania. | Alt./R.L. 673.6m | Hole No QR 84

Commenced 2/2/76 | Completed 4/2/76 | Core size NQ to BQ to 119 | Co-ordinate 8395.2N, 5017.1E | Date

Objective To test a shallow IP anomaly. | % Recovery | Bearing (M) 99°05' | Grid bearing (M) 8°45' | Logged E.H. Skey | Dip

SURVEY DATA

DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE
0	44°28'	99°05'	Theodolite
26	43°	104°	old Eastman
56	40°	105°	"
98	34.5°	108°	

GRAPH DERIVED DATA

DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	REMARKS
0	44.5	99	8395.20	5017.10	673.60	
25	43.8	100	8394.96	5035.04	656.19	
50	40.8	101	8394.40	5053.53	639.39	
75	37.5	102	8393.46	5072.90	623.62	
100	35.5	104	8391.97	5092.93	608.75	
119	31.0	106	8390.23	5108.71	598.34	END OF HOLE

Cominco

DIAMOND DRILL LOG

Hole N° QR 84 Page N° 1

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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
		PyP_1							
2.30	5	Mid grey to greenish grey <u>lithic tuff</u>. Fragment size range 0-2 cms typically, locally 3cms. Most fragments are mid-grey to pinkish, with sericitised feldspar phenocrysts. The majority are sheared (at 35° to core axis) and are hence elongate, some however are rounded. Occasionally fragments of massive sulphide (pyrite) occur. These are most common between 25m and 10m. Alteration is sericite-carbonate. Occasional deformed layers of grey chert occur.							Pyrite 7-10% locally 15-20% as disseminated euhedral (subhedral?) crystals, also as 'rock' fragments, and occasional stringers.
2.40									
3.05	10								
0.95									
2.50		The rock is interpreted as a bedded (sheared) water-laid lithic tuff.							
	15	Carbonate veining is patchy, colour is yellow or white.							
2.95		Some veins have broken up during deformation resulting in the development of augen or boudins of carbonate up to 4mm in diameter.							
3.00									19.70 to 20.30 trace galena (locally 2%) traces sphalerite and chalcopyrite.
	20								
0.75									
3.10									
3.00	25								

Cominco

DIAMOND DRILL LOG

Hole No QR 84 Page No 2

Feature : Bedding, Foliation, Fragment - size & shape; 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	MINERALIZATION
3.00	28.85		
1.10	30	30.10. NQ core ends, BQ core commences. Grey to cream agglomerate(?). Pale cream, sheared, subangular fragments with nunerous feldspar phenocrysts (2-3mm) are set in a blue grey matrix comprised either of fine tuffaceous debris (carbonated and sericitised or of blue grey disrupted chert, (locally 25-50%). The impression is of an	General increase to 15-20% pyrite as veins and stringers, typically marginal to blocks of lava.
1.85			
3.05	35	agglomerate not far removed from its lava source - i.e. close to a lava-breccia.	
3.05		This pale cream rhyolite feldspar porphyry (agglomerate) is of a recognised type, occurring in this area and also at Mt. Charter.	
3.00	40	Cleavage is 35-40° to core axis throughout.	
3.00		Carbonate veins, typically 1cm thick, are at 40° to core axis, commonly rotated in strike c.f. the cleavage by 40°.	
3.00	45	Permeating carbonate alteration imparts a yellow colour to much of the rock. Sericite development is ubiquituous.	
3.00	50		

VISUAL LOG: TRACE / COMMON / ABUNDANT / MASSIVE

Cominco

DIAMOND DRILL LOG

Hole N° QR 84 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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
2.95		Massive agglomerate to lava-breccia. Pale grey-cream, green sericitised feldspar phenocrysts common.						51.00	Sulphide content declines gradually to ?10% as veins, stringers and disseminated crystals.
3.00	55								
2.95									
	60								
3.05									
3.00									
	65	Note: horizontal slickensides. Short intervals of massive chlorite alteration are common between 54.50m and 67.50m.							
3.00									
2.20	70								
0.80	70.80	Lithic tuff. Subangular to rounded fragments of pale cream, off-white, green, feldspar-porphyry in a blue-grey sericite matrix. Yellow carbonate alteration throughout.							
2.95		Agglomerate or lava-breccia of altered (carbonate-sericite) rhyolite feldspar porphyry as above 70.80.							
	75								

Cominco

DIAMOND DRILL LOG

Hole N° QR 84 Page N° 4

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
3.00	80	Colour is yellow-cream, and blue-grey. alteration is carbonate-sericite. Chert is much rarer than previously but not absent. Occasional intervals of <u>lithic tuff</u> (e.g. 83.50 to 84.00) suggest intervals of erosion (and deposition of fragmentals) of intermittently extruded lavas.			Pyrite continues 7-10% locally, 15% as veinlets, and disseminated crystals.
3.00					
2.95					
2.95	85				
2.85					
3.05	90	Below 90m the colour is dominantly yellow with spotting of green sericite after feldspar and blue grey mottling due to pyritic inclusions - these irregular zones are typically <5mm in all dimensions. Foliation is weak at 45° to core axis, fracturing (marked by pyritisation) is at opposed angles both 40° to core axis (approx.).			
3.15					
2.80	95				
3.15	100				

Cominco

DIAMOND DRILL LOG

Hole N° QR 84 Page N° 5

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
3.10	105		Pyrite 7-10% as veinlets and disseminated crystals.
3.00		Lithic tuff agglomerate. Fragments of adjacent units in blue grey tuffaceous host.	
3.00	110	Rhyolite (?) feldspar porphyry lava-breccia carbonated, sericitised, foliated at 35-40° to core axis. The unit is fractured, these fractures now being lined with pyrite. Adjacent to the fractures the rock is blue-grey becoming light grey, then mottled yellow towards the centre of each block (up to 10 x 10 cms?).	111.05 Galena averages 5%, 25% 111.5 ~~over 10cms, pyrite 20%.~~ Pyrite 5-7%
2.95			
3.00	115		
3.00		Lithic tuff. Pale grey, cream or greenish porphyritic fragments in a blue grey matrix.	
	119	END OF HOLE	119.00

COMMENT. This hole geology does not have the same gross appearance as holes within the known ore zone, where generally darker grey, lithologically more variable rock types are found. Similarities are apparent, however, with Mt. Charter.