

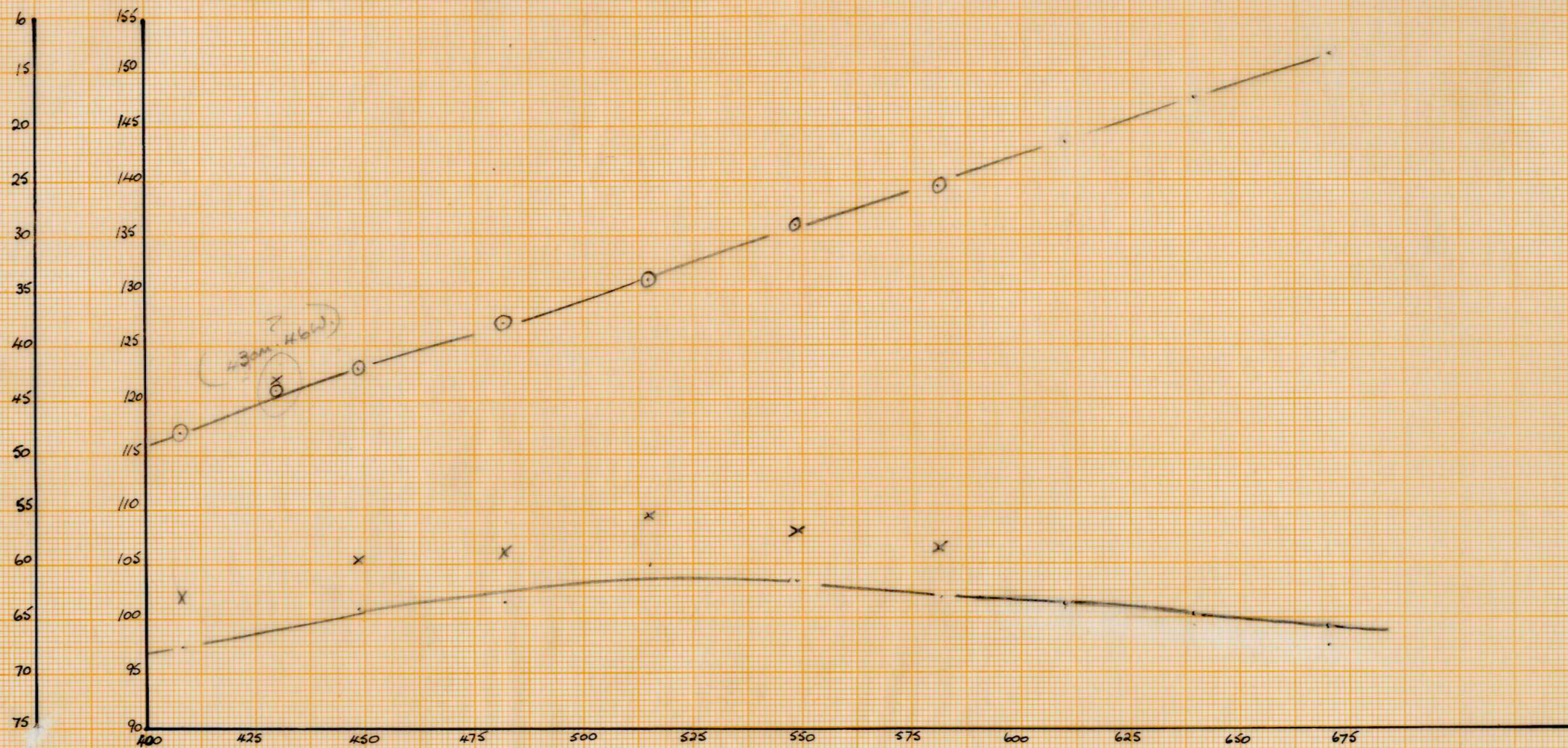


DRILL HOLE RECORD

Location Que River Area Property Mackintosh EL 2/70 District Tasmania Australia. Bearing (M) 102° Hole No QR 46W
 Commenced 2.7.1975 Completed 19.7.1975 % Recovery 100 Grid bearing (M) 8.75° Date 20.7.1975
 Objective To test beneath P/Q lens on section Core size BQ from 420 m to 673 m E.O.H. Logged C.H. YOUNG
 7400N at RL 300. Co-ordinates 7428.3N 4983.7E Dip 46° Alt./R.L. 336.0

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP	BEARING(M)	NORTHING	EASTING	ALTITUDE	
420	46	102	From graph QR 46	420	-46	102	93 7428.3	4983.7	336.0	
430	44	122	Eastman	450	-42	100.5	91.5 7427.4	5005.3	315.2	451.9 - 489.4 m Pyritised PyP ₁ unit, at
430	44	125	Single Shot	475	-39	102	93 7426.5	5024.2	298.9	458.0 - 458.75 minor band of massive Cpy
449	42	105.5	Camera	500	-36	103	94 7425.2	5044.0	283.7	and Gn. Sporadic distribution of
482	38	106	" "	525	-32.5	104	95 7423.5	5064.6	269.6	disseminations and aggregates of Sph and Gn.
515	34	109.5	" "	550	-29	103.5	94.5 7421.6	5086.0	256.9	
549	29	108	" "	575	-26	102.5	93.5 7420.0	5108.1	245.4	
581	25.5	106.5	" "	600	-22.5	101.5	92.5 7418.7	5130.9	235.1	603.8 - 612.4 m Pyritised PyP ₁ unit with
610	21.5	105.5		625	-19.5	101.5	92.5 7417.6	5154.2	226.1	occasional aggregates of Sph, Gn and Cpy.
640	17.5	104		650	-16.5	100	91 7416.8	5178.0	218.4	
670	13.5	103		673	-13.5	99	90 7416.5	5200.2	212.5	623.5 - 631.3 m Pyritised PyP ₃ unit with
										occasional aggregates of Sph, Gn and Cpy.
NOTE: No Camera Surveys below										
581 m. Hole extrapolated at average										
lift of 4° per 30 m and azimuth of										
1° drift per 30 m.										

QR 46W



(HOBm readings from the camera azimuth & dip)



DIAMOND DRILL LOG

Hole No **QR 46W** Page No 2.

Feature : Bedding Shearing
 Foliation Fault
 Fragment-size & shape Vein carbonate 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
	1.4	matrix.							Pyrite 1% as above.
	1.4	Hornblende is represented by small dark green lath shaped chlorite aggregates.							
	2.1	Lithic fragments are feldspathic tuff or lava of probable dacitic composition.							
	1.4	The matrix is fine grained and siliceous although carbonated rich.							
	430								
	2.0	Below 431 m the rock is weakly sheared at 30° - 40° to core axis, fragment outlines are obscure.							
	2.5								
	435								
	3.0								
	3.0	Below 440.5 m the rock becomes increasingly sheared and carbonated.							
	442	(443.3 m in QR 46)							
	0.45								442.0 Pyrite 3%-5% as disseminations of euhedral crystals to 1 mm and as irregular veins and aggregates.
	0.6	PyP ₁ Sheared at 50° - 60° to core axis (partly crenulated) and heavily carbonated over 1 m.							
	2.0	Grey-buff carbonated <u>feldspar crystal tuff</u> (lava?). Pale green sericite aggregates stretched by shearing to 3 mm (some euhedral outlines have been noted) represent feldspar. Olive green streaks of sericite after altered fragments? are randomly distributed.							
	445								
	3.0	The matrix or groundmass? is carbonated buff-grey in colour and is siliceous.							446.4 5 cm pyrite 40%.
	2.8	Small aggregates of green illite-hydromuscovite have been noted.							
	449.46	Below 446.5 m the rock is partly disrupted, fragmental? or brecciated.							
	450	Fault zone Pug sheared and broken core. (Fault commences at 450.5 m in QR 46).							



DIAMOND DRILL LOG

Hole No **QR 46W** Page No 3.

Feature : Bedding Shearing
 Foliation Fault
 Fragment-size & shape Vein carbonate
 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
		Fault zone as above.							Pyrite 3%-5% as above.
3.05	451.9	Grey sericitised carbonated coarse lithic tuff. The rock is sheared and disrupted at 40° - 50° to core axis. Fragment outlines are obscure. Fragments of feldspar crystal tuff, where pale green sericite replaces feldspar have been noted. (Porphyritic lava?).						451.9	Pyrite 5%-10%, 40% where indicated as disseminations, aggregates, irregular veins and networks of fine subhedral to euhedral crystals to 4 mm. Rare aggregates of sphalerite and galena.
3.0	455	The matrix is fine grained and siliceous partly sericitised and carbonated. 454 - 454.85 m Heavily sericitised.						458.0	Py 30%, Cpy 20%, recrystallised Gn 10%, grey Sph 5% as an irregular vein or band.
3.0								458.75	Py 10%-20% rare Sph, Gn.
3.0								459.45	Py 50%, 70% where indicated as aggregates
3.0	460							460.45	and veins of subhedral to euhedral crystals. Trace Cyp and Gn.
3.0	460.45	Light grey carbonated coarse lithic tuff as above. The rock is less sheared and disrupted, fragments are irregular to sub-rounded to 4 cm, consisting mainly of dacitic lava as described above, fine grey tuff and recrystallised chert.							Py 5%-10%, 40% - 60% where indicated, trace sph and Gn.
3.0		The matrix is light grey and siliceous.						463.9	5 cm Py 40%, Cpy 40% and Gn 5%.
3.0	465	There is a fragment alignment or bedding at 40° to core axis.							
3.0								469.5	Py 60% as disseminations
3.0	470							469.75	irregular veins and aggregates trace Sph, Gn.
3.0									Py 5%-10% as disseminations irregular veins and aggregates, rare Gn as disseminations.
3.0	472.3	The rock is no longer obviously fragmental. Light grey carbonated locally chloritic lithic feldspar crystal tuff or lava? Feldspar is represented by green chlorite-sericite aggregates to 3 mm. Irregular patches						472.3	Py 3%-5% as above.
3.0								474.1	5 cm Gn 3% trace Sph in
3.0	475							474.6	chlorite rich band. Py 5%-10% as disseminations



DIAMOND DRILL LOG

Hole No **QR46W** Page No 9.

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
		PyP ₁ as above.							Pyrite 5% as above.
	3.0	603.8 - 606.6 m The rock is pale grey to buff in colour sheared and disrupted about the fault at 604.5 m.						603.8	Pyrite 5%-10% as disseminations, fine irregular veins and aggregates of subhedral to euhedral crystals.
	3.0	605							
	3.0	608 m 15 cm heavily sericitised.						606.85	Pyrite 5%-10% as above, 20% where indicated with rare aggregates of sphalerite, galena and chalcopyrite.
	3.0	608.2							
	3.0	608.7 Chlorite alteration zone.							
	0.6	610							
	2.4	612.4							
	3.0	PyP ₃ Gradational Contact. Grey-green to buff locally carbonated and chloritised vitric feldspar crystal tuff/lava? (Often similar to DTL). Feldspar crystals are randomly distributed and are represented by irregular sericite-chlorite aggregates to 3 mm, elongated in the direction of foliation at 40° - 60° to core axis. Grey irregular quartz aggregates are thought to represent devitrified shards, hence vitric. The matrix is fine grained and siliceous. Foliation 60° to core axis.						612.4	Pyrite 3%-5% as disseminations and aggregates of fine subhedral to euhedral crystals (mainly in the form of irregular veins.)
	3.1	615						617.4	10 cm pyrite 40% as an irregular vein at 50° to core axis rare chalcopyrite.
	3.0	620							
	3.0	625						623.5	Pyrite 5%-10% locally 15% as disseminations irregular veins and aggregates.

