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DRILL HOLE RECORD

Location QUE RIVER | Property M.L. 3m/75 | District TASMANIA | Bearing (M) 280°12' | Hole No QR106

Commenced 7·10·76 | Completed 10·10·76 | % Recovery 99·2 | Grid bearing (M) 8°45' | Date 25·11·76

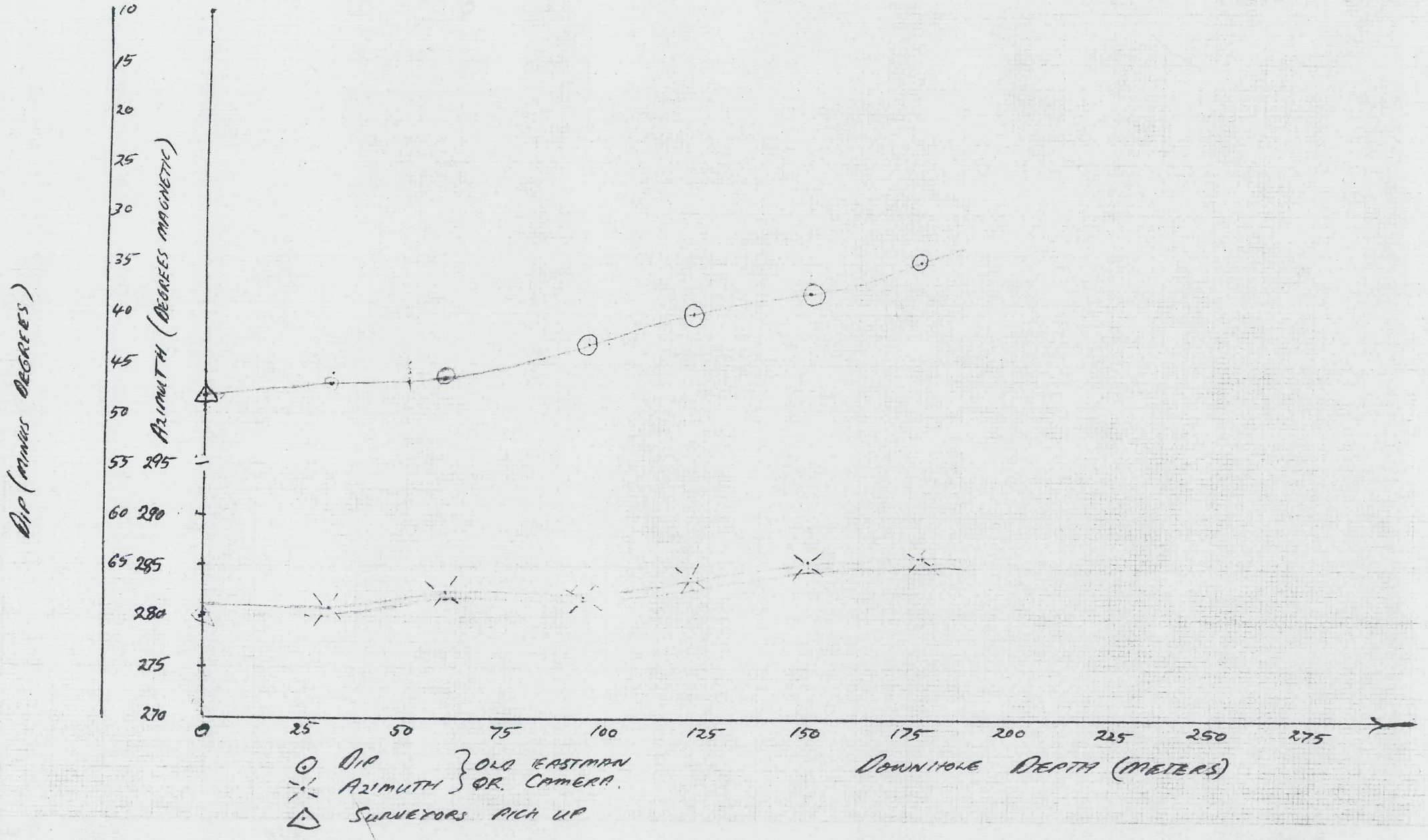
Objective TO TEST SHALLOW IP ANOMALY 8500N, 5100E | Core size HQ to 3m, NQ to 63·0 BQ to 178·5 E.O.H. | Logged C.H. YOUNG

Co-ordinates 8497·07N 5150·45E | Dip −48·25° | Alt./R.L. 687·1 m.

SURVEY DATA				GRAPH DERIVED DATA			CALCULATED CO-ORDINATES			REMARKS
DEPTH	DIP	BEARING(M)	INSTRUMENT TYPE	DEPTH	DIP°	BEARING°(M)	NORTHING	EASTING	ALTITUDE	
0	50°	278°45'	TUBE COMPASS AND BRUNTON	0	48·25°	280·25°	8497·1	5150·5	687·1	
0	48·25°	280°12'	SURVEYORS PICK UP QUE RIVER EASTMAN	25	47·25	280·25	8497·54	5133·70	668·60	Pyrite >10% from 79·4 - 84·3m
31	47·5	281		50	46·75	281·0	8498·10	5116·66	650·31	including 1·2m of ore grade mineralisation,
60	46·5	282·5	"	75	45·5	282·0	8498·93	5099·35	632·29	83·1 to 84·3m, located at 5093E 630RL
94	43	282	"	100	42·5	282·0	8499·95	5081·40	614·93	Satisfactorily explains IP anomaly.
121	40	284	"	125	39·75	283·0	8501·19	5062·62	598·49	
150	38	285·5	"	150	38·0	284·5	8502·88	5043·23	582·80	This mineralisation is situated
177	34·75	286·0	"	175	35·25	285·0	8504·98	5023·29	567·89	within an intrafragmental zone
				178·50	34·75	285·0	8505·29	5020·44	565·89	of a porphyritic dacite suite.

QR 106 EASTMAN SINGLE SHOT DOWNHOLE CAMERA SURVEYS.

COMMENCED : 7.10.76
COMPLETED : 10.10.76
DEPTH : 178.5m



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DIAMOND DRILL LOG

Hole No DR 106 Page No 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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	0	NO CORE							
	1.0								
HQ 2.0		PDP Grey carbonated, sericitized and locally silicified. Lithic tuff agglomerate							Pyrite 3%-5% as disseminations, aggregates and irregular veinlets
	3.0	Fragments are irregular to subrounded porphyritic dacite, dacite, sericitized trachyte and occasional chert.							
NQ 1.25	4.5								
	5.0	The matrix is grey in colour fine grained and "salty".							
3.0									
	7.5	4.5-6.0 m Solution cavities are common.							
3.0									
	10.0								
	10.5	Fracturing on fractures down to 10 m.							
3.0									
	13.5								
3.0	15.0								
	16.5							16.5.	Pyrite 3% as disseminations and irregular stringer veins.
		PD Grey carbonated and silicified locally sericitized. feldspar porphyry dacite.							
3.0		A massive rock. Feldspar phenocrysts to 2 mm are represented by aggregates of pale grey green sericite. The groundmass is fine grained quartzo-feldspathic.							
	19.5								
	20.0								
3.0									
	22.5	Fractures 30°-40° to C.A.							
3.0									
	25.0								

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DIAMOND DRILL LOG

Hole No 84106 Page No 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	VISUAL LOG	DEPTH m	MINERALIZATION
	25.5	PD as above.			Pyrite 3% as above.
2.90					
	28.40	28.4m. Solution channel 1cm wide 15° CA.			
3.10	30.0				
	31.5				
2.0					
	33.5	Sericite alteration over 15 cm.			
2.45	35.0				
	35.95				
3.10					
	39.05				
3.10	40.0			40.8	15cm Py #0% as irregular vein
	42.15				
3.10					
	45.0				
	45.25				
3.10					
	48.35				
	50.0				

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DIAMOND DRILL LOG

Hole No CK106 Page No 3

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	VISUAL LOG (TRACE / COMMON / ABUNDANT / MASSIVE)	DEPTH m	MINERALIZATION
3.10	51.45	PD as above. Irregular flow banding on a scale of 0.5 - 1 cm has been noted below 52.0 m. Commonly 80° C.A.			Pyrite 3% as above
0.90	52.50				
3.0	55.0				
	55.5				
3.0	58.5				
3.0	60.0				
	61.5				
NQ / BQ 3.0	63.1			63.1	
		PD Sericite - carbonate alteration zone. Buff coloured feldspar porphyry dacite. Extensively sericitized. Pale grey green sericite is very common. Carbonate veinlets are also common.			Pyrite 5% as disseminations, aggregates and irregular veins.
	64.5				
	65.0				
3.0	67.4			67.4	
	67.5	PDP Grey carbonated and sericitized locally silicified. Lithic tuff/agglomerate/ agglomerate Fragments to 15 cm are irregular to subrounded or subline - Porphyritic dacite and recrystallized dacite.			Pyrite 5% locally 10% Trace sphalerite, galena and chalcopyrite as stringer veins. Veins are located on log.
3.0	70.0				
	70.5				
3.0	71.6			71.6	
		PD Grey to Buff. Silicified and Carbonated feldspar porphyry dacite. Massive feldspar porphyry dacite. Feldspar represented by aggregates of sericite to 2 mm.			Pyrite 3% - 5% trace galena and sphalerite.
	73.5				
	75.0				

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DIAMOND DRILL LOG

Hole No QR106 Page No 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	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0	76.5	The rock is locally flow banded at 30° C.A. The groundmass is fine grained quartzo-feldspathic. Irregular carbonate healed fractures are common.							Pyrite 3% as above. (5)%
3.0	77.4 77.5							79.4	
3.0	80.0	PDP Grey silicified locally carbonated and sericitized coarse lithic tuff. Fragments are commonly porphyritic dacite. Carbonate alteration in irregular veinlets is common. This rock may be a brecciated Porphyritic dacite.						80.6	Pyrite 30% as irregular veins and aggregate
	82.5								Pyrite 10% locally 20% as disseminations and aggregates.
3.0	84.3							83.1	Pyrite 60% Sph 5% locally 15%. Gn 3% locally 5% Tr Cpy. Barite.
	85.0	PD Grey to buff silicified dacite similar to the rock above 79.4m						84.3	
	85.5								Pyrite 10% as irregular vein aggregate, and disseminations
	86.4							86.4	
3.0	88.5	PDP Grey sericitized locally carbonated and silicified coarse lithic tuff. Lithic fragments are irregular to subrounded - porphyritic dacite and feldspar porphyry andesite? where feldspar phenocrysts are represented by aggregate of white carbonate. The matrix is grey in colour fine grained and "dusty".							Pyrite 3% - 5%
3.0	90.0								
	91.5								
3.0	94.5								
	95.0								
3.0	96.5m. Bedding 60° C.A. Fragments of Pyrite, showing colloform banding, to 3cm have been noted.							96.5	15cm Pyrite 15% as fragments
	97.5								
	98.0	Grey Lithic tuff agglomerate as above Below 98.0m pale green coloured fragments of porphyritic dacite composition with pyrite stringers							
	100.0								

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DIAMOND DRILL LOG

Hole No DR106 Page No 5

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	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
3.0	100.5	are fairly common.							Pyrite 3%-5% as above
3.0	103.5								
	104.5								
3.0	105	DRWT Grey carbonated and silicified coarse lithic tuff. Polymictic. Fragments are subrounded, to 3 cm. porphyritic dacite, grey recrystallized chert and occasional sericitized trachyte.							
	106.5								
3.0	107.7								
		PDP Grey sericitized locally carbonated and silicified lithic tuff agglomerate. Lithic fragments are irregular to subrounded in outline - typically porphyritic dacite in origin. Other fragment types have been noted. 112.5 Bedding 40° CA. The matrix is light grey - "oaky".							
	109.5								
3.0	110								
	112.5								
3.0	115								
	115.5								
3.0									
	118.5								
3.0	120								
	121.5								
3.0									
	124.5								
	125								

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DIAMOND DRILL LOG

Hole No OR106 Page No 6

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	DEPTH m	MINERALIZATION
3.0	127.5	127.5. Fragment alignment 50° OA.			Pyrite 3% - 5% as above
3.0	130				
3.0	130.5	PD Grey silicified locally carbonated and sericitized feldspar porphyry dacite Feldspar phenocrysts are represented by aggregates of pale grey-green sericite to 2mm often euhedral in outline. The groundmass is fine grained blue grey in colour, quartzo-feldspathic.			
3.0	133.5				
3.0	135			134.0	Pyrite 10% as irregular stringer veins. Rare Sphalerite, Galena and Chalcopyrite.
3.0	136.5			136.2	Pyrite 5% as disseminations and stringer veins.
3.0	139.5				
3.0	140				
3.0	142.5				
3.0	145				
3.0	145.5				
3.0	148.5				
	150			149.6.	15cm Py 15% as stringer vein

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DIAMOND DRILL LOG

Hole N° QR106 Page N° 7

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	VISUAL LOG	DEPTH m	MINERALIZATION
3.0	151.5	PD as above. Below 150.5 m the rock is locally brecciated. Occasionally fragmental in appearance.			Pyrite 5% as above
3.0	154.5				
3.0	155				
3.0	157.5				
3.0	160				
3.0	160.5 161	PDP. Grey sericitized and carbonated lithic tuff / lithic tuff agglomerate Lithic fragments are irregular to subrounded in outline - porphyritic dacite. White carbonate aggregates are very common. - alteration of small fragments? 166.3. 30 cm. Sericite alteration zone.			
3.0	163.5				
3.0	165				
3.0	166.5 167.9 168.2	FAULT ZONE			
3.0	169.5 170	SP Grey lithic tuff agglomerate. Lithic fragments are characteristic "chunky" porphyritic dacite, possibly pumice. Fragment outlines are "shredded" in appearance. Phenocrysts of feldspar are now replaced by sericite. The matrix is light grey fine grained and "ashy" Flow as a crude fragment alignment			Pyrite 3% - 5% as disseminations, aggregates and irregular veins.
3.0	172.5				
3.0	175				

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DIAMOND DRILL LOG

Hole No GR106 Page No 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	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
	175.5	at 60° C.A.							Pyrite 3% - 5% as above
3.0	177	PDP Grey carbonated and sericitized lithic tuff. Similar to 182 m.							
	178.5	EOH.							