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DRILL HOLE RECORD

Location QUE RIVER | Property ML. 3m/75 | District TASMANIA | Bearing (M) 279°18' | Hole No QR 107

Commenced 12/10/76 | Completed 17-10-76 | % Recovery 97.5% | Grid bearing (M) 8° 45' | Date Nov 1976

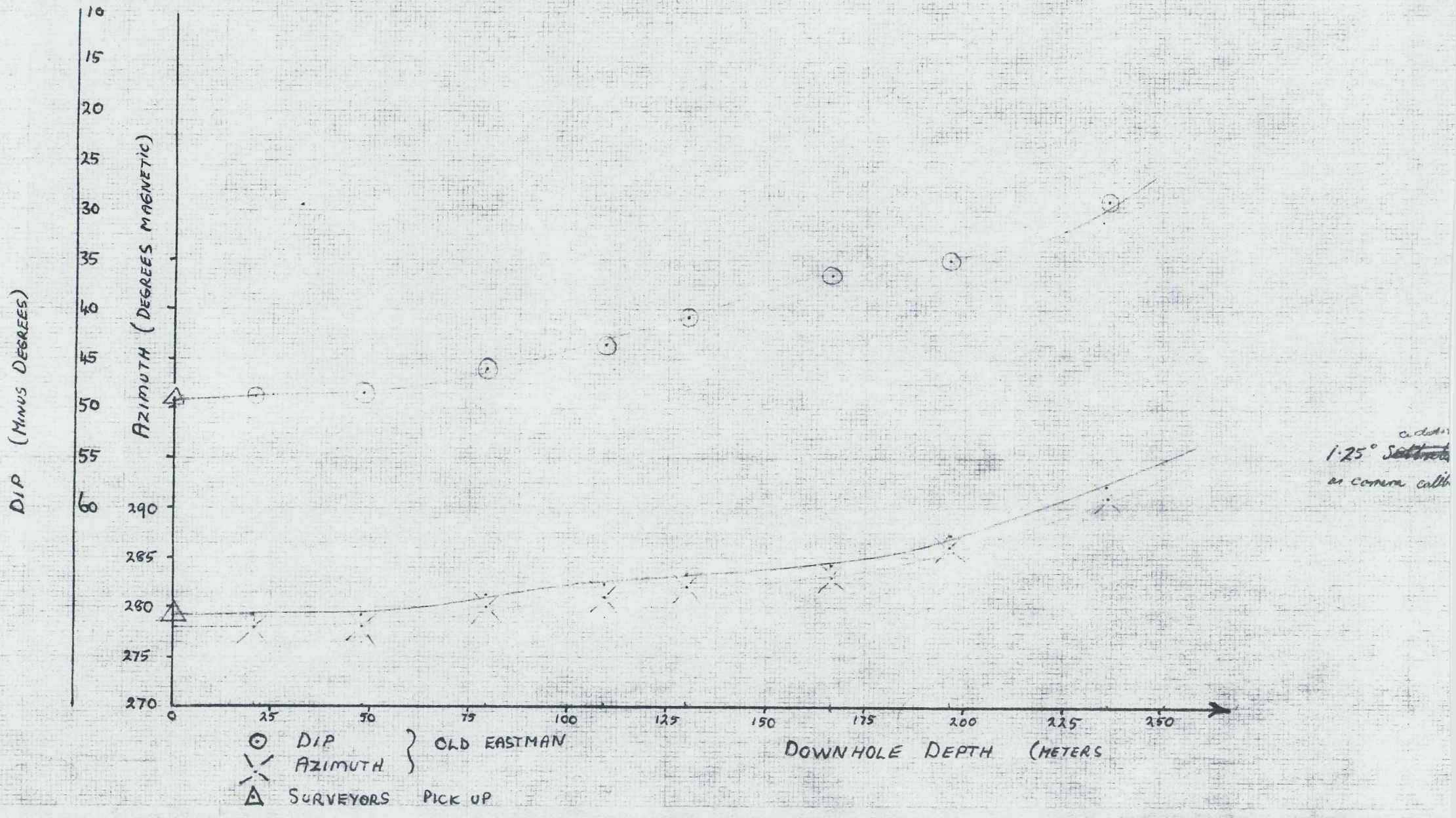
Objective To test shallow IP. anomaly 8500N, 5200E | Core size NQ to 48.4m BQ to 250.50 | Logged C.H. YOUNG

Co-ordinates 8495.3 N 5240.9E Dip -49.25° | Alt./R.L. 670.2 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'	~~THEODOLITE~~ & BRUNTON.	0	49.25	279.25	8495.3	5240.9	670.2	
0	49.25	279° 18'	Surveyors.	25	49	279.25	8495.44	5224.54	651.30	
21	48.75	278°	OLD EASTMAN	50	48.5	279.50	8495.64	5208.06	632.50	
48	48.5	278	"	75	46.5	280.75	8496.03	5191.18	614.07	
79	46.0	281	"	100	44.5	282.25	8496.88	5173.68	596.24	
109	43.5	281	"	125	42	283.00	8498.11	5155.52	579.12	
139	40.75	282		150	39.5	283.75	8499.64	5136.64	562.80	
166	36.5	283		175	36	285.00	8501.58	5116.98	547.50	
196	35°	286°		200	35	287.50	8504.24	5096.81	532.99	
235	29°	291°		225	31	291.00	8508.07	5076.22	519.38	
				250	26	294.75	8513.44	5054.95	507.46	
				250.5	26	295.00	8513.66	5054.92	507.24	

QR107 EASTMAN SINGLE SHOT DOWNHOLE CAMERA SURVEYS

COMMENCED: 12/10/76
COMPLETED: 17-10-76
DEPTH: 250.50 m



1.25° ~~Settings~~ as camera calib

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DIAMOND DRILL LOG

Hole No QR107 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	DEPTH m	MINERALIZATION
	3.1	NO CORE			
1.40	5.00	PD Buff to light grey silicified locally carbonated and sericitized feldspar porphyry dacite Partly weathered and oxidized down to 13.0 m. Minor interfingering units to 30 cm have been noted to 14.0 m. Feldspar phenocrysts to 2 mm are represented by aggregates of pale green sericite - occasionally calcitized in outline. The groundmass is fine grained siliceous.	BROKEN CORE		Pyrite 3-5% as disseminations and as irregular stringer veins.
3.00					
3.00	10.00		BROKEN CORE		
2.35					
2.80	15.00				
3.00					
3.00	20.00				
3.00	25.00				

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DIAMOND DRILL LOG

Hole N° QR107 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	VISUAL LOG	TRACE	COMMON	ABUNDANT	MASSIVE	DEPTH m	MINERALIZATION
0.80		PD as above.							Pyrite 3% as above.
2.20		Porphyritic dacite as above Locally buff in colour.							
		Pyrite commonly replaces sericite after feldspar phenocrysts.							
2.85	30.0	31.0m Crude orientation of feldspar phenocrysts, flow layering at 70° C.A.							
1.15									
1.85									
	35.0								
3.00									
	37.5	PDP Grey silicified, locally carbonated and sericitized lithic tuff agglomerate. Porphyritic dacite fragments as ubiquitous Possibly Brecciated PD.							
2.95	39.2								
	40.00	PD Grey silicified, locally carbonated and sericitized feldspar porphyry dacite as above 37.5m.							
2.90		43.5 - 48.0 m. The ground is broken solution channels are common.	BROKEN CORE						
1.50									
	45.0								
2.55									
NQ	48.0	gradational Contact.							
BQ		PDP Grey carbonated locally sericitized and silicified lithic tuff agglomerate						48.0	Pyrite 3% as disseminations, aggregates and irregular veinlets.
1.50		Lithic fragments are irregular							
	50.0								

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DIAMOND DRILL LOG

Hole N° QR107 Page N° 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	DEPTH m	MINERALIZATION
2.80		to subrounded in outline, porphyritic dacite.	BROKEN CORE		Pyrite 3% or above.
2.65	55.0	The matrix is fine grained, grey and siliceous and of similar composition to the fragments.			
		55.4 - 57.0 m. Broken core, numerous solution channels.			
2.90					
3.00	60.0				
				61.4	3 cm Stringer Pyrite 20%
3.00		64.5 m Crude fragment alignment at 45° to CA.			
	65.0				
3.00	66.7	gradational contact		66.7	Pyrite 5% or above. Includes minor stringers to 1 cm of Pyrite, Sphalerite and galena.
		DRWT. Grey carbonated locally silicified and sericitised coarse lithic tuff. Lithic fragments are subrounded in outline, commonly porphyritic dacite.			
3.00	70.0				
	70.7	gradational contact		70.7	Pyrite 3% or above
3.00		PDP Grey carbonated locally sericitised and silicified coarse lithic tuff/tuff agglomerate. Lithic fragments are subrounded to angular - porphyritic dacite. The matrix is blue grey in colour fine grained and siliceous.			
	75.0				

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DIAMOND DRILL LOG

Hole No QR107 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
3.00		PDP or above.							Pyrite 3% as above
3.00	79.1								
3.00	80.0	DRWT Grey silicified locally carbonated and sericitised coarse lithic tuff. Lithic fragments are sub-rounded to rounded in outline. Generally porphyritic dacite. Some recrystallised chert has been noted Fragment up to 5cm have been noted - average 3cm.							
3.00									
3.00	85.0								
2.85		The matrix is fine grained and siliceous.							
3.00	90.0	There is a crude fragment alignment at 50° to C.A.							
3.00									
3.00	95.0								
3.00									
3.00	100.0								

DIAMOND DRILL LOG

Hole No QR107 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
3.00		DRWT as above Crude fragment alignment 50° C.A.							Pyrite 3% as above.
3.00	105.0							105.5	Pyrite 20% Sphalerite 15% Galena 10% Trace Boite as a stringer vein?
	106.5							106.5	
3.00		PDP Grey-carbonated and sericitized locally silicified lithic tuff agglomerate. Very minor chlorite alteration has been noted. Lithic fragments are sub-rounded to irregular in outline generally up to 5 cm in size average 3 cm. They consist of porphyritic dacite – some sericitized trachyte and recrystallized chert have been noted. The matrix is grey in color fine grained and siliceous.							Pyrite 3%-5% as disseminations, aggregate and irregular veins.
3.00	110.0								
3.00									
3.00	115.0							114.0	Pyrite 10% as disseminations aggregate and irregular veins. Sphalerite 2%-3% Galena 1%-2%.
2.90		117.4-118.9 · Carbonate vein 2-3 cm wide. Sub parallel to core axis.						117.8	
3.00	120.0								Pyrite 3%-5% as disseminations and irregular veins. Rare Sph. Gn.
3.00	122.5	Grey to Buff carbonated and silicified lithic tuff agglomerate. Fragments of porphyritic dacite							
	125.0								

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DIAMOND DRILL LOG

Hole No QR107 Page No 6

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
300		are irregular in outline. It is possible this unit represents a brecciated porphyritic dacite. The matrix is grey and siliceous and of similar composition to the fragments.							Pyrite 3% - 5% or above. Trace Sph, Gn. Below 125.0 m.
300								129.0	Pyrite 5% Galena 3% - 5% Sphalerite 3% - 5%
	130.0							130.5	
300									Pyrite 3% - 5% Rare Sph, Gn or above.
	134.5								
300	135.0	Grey carbonated locally silicified lithic tuff agglomerate / lithic tuff. Similar to the rock above 134.5 m however this unit is clearly fragmental. From 134.5 - 135.5 fragment are green and chloritic - possibly andesitic. Below 135.5. Fragments are commonly porphyritic dacite, irregular in outline up to 4 cm. Other fragments of sericitized trachyte? have been noted.							
300	140.0								
300									
300	145.0								
300									
300	150.0								

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DIAMOND DRILL LOG

Hole No 88107 Page No 7

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
		PDP as above.			Pyrite 3% - 5% Rare Sph, Gn as above
	151.5				
300		Grey carbonated and sericitized lithic tuff. Lithic fragments are commonly < 1cm in size, consisting of porphyritic dacite, recrystallized chert and sericitized trachyte?. The matrix is fine grained grey in colour and sericitic.			
300	155.0				
	158.5	154.5 m Bedding 50° C.A.			
300		Grey carbonated and sericitized lithic tuff agglomerate similar to the unit above. Lithic fragments up to 4cm have been noted. They consist essentially of porphyritic dacite. The matrix is fine grained siliceous - of similar composition.			
	160.0				
300					
300	165.0				
300				168.4	Pyrite 10% as stringer veins.
				169.3	
	170.0				Pyrite 3% - 5% as above.
300					
300					
	175.0				

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DIAMOND DRILL LOG

Hole N° QR101 Page N° 8

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
		POP as above							Pyrite 3% - 5% as above.
300									
300	180.0								
300									
300	185.0								
300									
300	190.0							189	10 cm Pyrite 30%.
300		Crude fragment alignment 60°-70° to core axis.						191.2	4 cm Pyrite 15% as a stringer vein.
300	195.0								
300								196.6	2 cm Stringer Pyrite 15%
300									
	200.0								

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DIAMOND DRILL LOG

Hole No QR.107 Page No 9

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
150		PDP as above.							Pyrite 3% - 5% as above.
145		Fragments are commonly sericitoid trachy t.? The matrix being light grey and siliceous.							
300	205.0								
300									
300	210.0	Fragment alignment 60° CA.							
300									
300	215.0								
300									
300	220.0								
300									
300	225.0							223.	Pyrite 10% Trace Sph, Gn as disseminations, aggregates and irregular veins with carbonate.
								224.5	

DIAMOND DRILL LOG

Hole No QR107 Page No 10

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
		PDP as above.			Pyrite 3% - 5% as above.
275	230.0		BROKEN, F, COARSE		
280	238.8	FAULT CONTACT	F	230.8	Pyrite 3% as disseminations, aggregates and irregular veins.
		SP Grey carbonated locally sericitized and silicified Lithic tuff agglomerate Lithic fragments are irregular in outline often "shredded" in appearance. They consist essentially of porphyritic dacite, - in some cases pumice.			
300	235.0				
300					
300	240.0	Crude fragment alignment 60° - 70° to core axis.			
275		The matrix is grey - fine grained and "salty".			
300	245.0				
300	250.0				

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DIAMOND DRILL LOG

Hole N° QR107 Page N° 11.

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
	250	5. SP as above							Py 3% as above
		END OF HOLE							
	255.0								