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ELECTROLYTIC ZINC COMPANY OF AUSTRALASIA LIMITED
MINERAL RESOURCES DIVISION

FORM	A.O.	C.G.	E.O.	J.C.
				Registra
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	DEPT. OF MINES			
REF. No.	9119/84			

EXPLORATION LICENCE NO. 56/80 - SANDY CAPE

REPORT ON EXPLORATION ACTIVITIES UNDERTAKEN

MAY, 1983 TO MAY, 1984

MICROFILMED

REPORT No. T191MD

I.R. McDONALD,
JUNE, 1984.

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A1-516-0066	Drill Hole Summary Sheet SCP 256

1. INTRODUCTION

This report covers exploration activities on E.L. 56/80 between May, 1983 and May, 1984. The work was carried out by Electrolytic Zinc Company of Australasia Limited on behalf of a Joint Venture between E.Z. and Tenneco Oil and Minerals (Aust.) Ltd. Previous exploration on the E.L. has been documented in E.Z. Reports No's 141 (1981); 147 (1982) and 168 (1983).

2. WORK COMPLETED

Lack of road access into and within the Sandy Cape area effectively restricts field activities to the short summer season when helicopter support is relatively guaranteed. Because of this constraint no work was undertaken during the period under review until February, 1984.

Two diamond drill holes were programmed on the No. 1 Anomaly Grid (refer Fig. 1) to test a P.E.M. anomaly and a ground magnetic anomaly under stabilised sand dune cover. An attempt was made to find a vehicle access route to the drill site area, but this proved impossible. The programme was undertaken by helicopter mobilisation of the drill rig. The drill crew were land accessed along the Kenneth Bay beach to an existing stockman's hut at Sandy Cape. Daily access to the rig was then by motorbike and foot from the hut camp.

The two diamond drill holes were completed for a total of 194.8 metres. Hole parameters are as follows:-

Hole No. DDH SCP 255

Target	: A strong Crone P.E.M. Anomaly under sand dune cover.
Location	: 375N; 320W - No. 1 Grid
Collar Dip	: -45°
Azimuth	: 070° A.M.G.
Final Depth	: 110m.

Hole No. DDH SCP 256

Target : A ground magnetic anomaly under sand dune cover.
Location : 300N; 390W - No. 1 Grid
Collar Dip : -45°
Azimuth : 055° A.M.G.
Final Depth : 84.8m.

Core from the holes was geologically logged. Chip samples from the core were sent to Analabs Pty. Ltd. and analysed for Cu, Pb, Zn, Ag, Fe, Mn by A.A.S. after nitric-perchloric digestion, for As by A.A.S. after vapour hydride generation, for Sn, W, Sb by X.R.F., and for Au by fire assay. Magnetic susceptibility measurements were carried out on the core using a Scintrex S.M. 5 susceptibility bridge. Selected samples from DDH SCP 255 were sent to Scintrex Pty. Ltd. and were measured for inductive conductivity using a Scintrex CTU-2 unit at 2.5MHz.

3. RESULTS RECEIVED

Detailed geological logs of DDH's SCP 255 and SCP 256 are presented in Appendix 1, and the results are summarised on plans No's A1-516-0065 and -0066.

3.1. DDH SCP 255**GEOLOGY**

The hole traversed 17.3m of dune sand cover with a pebble accumulation at the base which probably represents the old beach surface. This implies approximately 12m vertical cover of sands. The hole then intersected a fairly ordinary looking sequence of laminated mudstones, siltstones and quartz sandstones. From 17.3m to 53.2m mudstone/siltstone is dominant with minor interbeds of sandstones. From 53.2m to 105.4m quartz sandstones and siltstones are dominant with minor mudstone laminae, except for the intervals 87.6m to 90.5m and 94.1m to 97.2m where black pyritic graphitic mudstones are dominant. A prominent fault zone occurs from 105.4m to 109.3m. Thick and thin quartz-carbonate veins occur in a matrix of mudstones and puggy black clay. From 109.3m to the end of the hole at 110.0m there is a return to interbedded quartz sandstone and siltstone.

Core angles vary from 55° to 80° but are dominantly 65-70°, which imply dips of 65-70° West or 20-25° West. Graded bedding gives consistently west facings.

Pyrite is the only sulphide observed and is almost ubiquitous in the 1% to 3% range as disseminations and blebs and rare veinlets and bands. Pyrite content reaches a maximum of about 5% in the graphitic mudstones between 87.6m and 97.2m, and in the fault zone between 105.4m and 109.3m.

GEOCHEMISTRY

All elements analysed are very low (refer to drill log Appx. 1). Tin reaches a maximum of 8 ppm Sn, with 83% of the samples below detection limit. Every sample was below detection limit for tungsten and silver. Gold reported a highest value of 0.02 ppm Au. Other peak values are 40 ppm Cu; 10 ppm Pb; 50 ppm Zn; 8 ppm Sb; 91 ppm As; 455 ppm Mn; 3.90% Fe. (The iron values do not reflect pyrite content as the nitric/perchloric dissolution technique does not release all pyrite iron into solution.)

ELECTROMAGNETICS

The results of the conductivity measurements made by Scintrex are presented in Table 1. The most conductive sample by far is No. 61160 with 55.8 mho/m. This was a sample of laminated pyritic graphitic mudstone.

TABLE 1. DDH SCP 255 - Geophysical Test Results

Sample No.	Depth (m)	Lithology	Conductivity mho/m.	Susceptibility e.m.u. x 10 ⁻⁶
61154	27.0	laminated sandstone/siltstone	1.02	50
61155	37.6	laminated siltstone/mudstone	9.77	10
61156	49.4	laminated siltstone/fg sandstone	10.50	20
61157	55.7	interbedded sandstone/siltstone	1.23	30
61158	65.4	lam. siltstone/mudstone with thin Py bands	20.90	20
61159	83.0	Quartz sandstone with minor siltstone	0.23	15
61160	90.2	lam. pyritic graphitic mudstone	55.80	25
61161	94.5	lam. graphitic mudstone and siltstone	14.90	15
61162	102.6	interbedded sandstone/siltstone	1.98	30

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MAGNETIC SUSCEPTIBILITIES

The magnetic susceptibility measurements made on the core, every 0.2m where possible, are listed in Appendix 2. These are all extremely low. The SM-5 susceptibility meter measures in steps of 0.1×10^{-3} c.g.s. units. In more conventional terms, it has a sensitivity of 100×10^{-6} c.g.s. units for measurements made on large flat surfaces. The curved measurement surfaces of drill core require a calibration factor. From 406 measurements on the core 400 were zero; the remaining six all read 0.1 on the meter. For BQ core this converts to 200×10^{-6} c.g.s. units. The samples sent to Scintrex for conductivity measurement were also measured for susceptibility on a more sensitive meter and the results are shown in Table 1. They range from 15 to 50×10^{-6} c.g.s. units and confirm the validity of the universally low SM-5 readings.

3.2. DOH SCP 256

This hole returned very poor core recovery. Over the entire coring interval from 14.6m to 84.8m the average recovery was 46%. This resulted from a combination of the strongly faulted nature of the rocks and the small drill rig used on the job. The helicopter access necessitated the use of a small size rig. The necessity to case-off the hole with the NQ drill string once the dune-sand was penetrated meant that the bedrock was cored at BQ size. A larger capacity machine which could have cased and drilled in larger core size, and the use of triple tube, would undoubtedly have improved core recovery to some extent. The amount of loose sand sized material and friable mud recovered in the hole suggests that core recovery would have been a major problem whatever type of rig had been used.

GEOLOGY

The hole traversed 12.6m of sand with a further 2m of pebbles, which, like SCP 255, probably represent the old beach surface. This implies a vertical cover of approximately 10m of stabilised dunes at this point. The borehole then intersected two major rock units. From 14.6m to 27.4m there occurs a white and green brecciated altered rhyolite. This is possibly a lava, but perhaps more probably is a minor intrusive related to the margins of the adjacent Sandy Cape Granite. The rhyolite is variably argillised and chloritised. Chlorite is prominent as veinlets

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annealing breccia, and in bands where the rhyolite is almost totally chloritised. Pyrite occurs throughout at about 3% but is up to 5% in more chloritic sections. The nature of the contact is unknown as only chips of altered rhyolite were recovered from this zone.

Below the rhyolite the hole intersected a sequence of mudstone, siltstone and sandstone very similar to that seen in SCP 255. Core angles varied from 50-70° indicating similar dips to SCP 255. The main difference between the two holes is the degree of faulting evidenced in SCP 256. Major fault zones occur between 37.9m and 47.0m; between 58.9m and 72.4m; and between 78.5m and 80.8m. These zones are evidenced by poor core recovery of puggy clay containing crushed fragments of mudstone and of vein quartz. Quartz-carbonate veining and shearing occur throughout the hole. Pyrite is ubiquitous at about 2-3% but in places is up to 5% as disseminations, blebs, and irregular veinlets.

GEOCHEMISTRY

The drill core geochemistry is very similar to SCP 255 in being universally low. Two samples reported 4 ppm Sn with the remaining 22 samples being below detection limit. Tungsten reported 124 ppm W and 22 ppm W with the remaining 22 samples below detection limit. Silver was again below detection limit in all samples. Gold reached a peak of 0.03 ppm Au, in two samples. Arsenic, antimony, manganese and iron were all slightly higher than in SCP 255, with peak values of 140 ppm As, 21 ppm Sb, 300 ppm Mn, and 8.55% Fe. Other peak values are 35 ppm Cu; 30 ppm Pb; 85 ppm Zn.

MAGNETIC SUSCEPTIBILITY

Because of the very broken nature of the core and the degree of core loss, systematic magnetic susceptibility measurements, such as were done on SCP 255, were not possible. Measurements were taken where ever the core was solid enough to place the susceptibility bridge against it. Some measurements were made on piles of broken chips, and measurements were made on cakes of the dune sand collected as sludge samples from the top 12m of the hole. The interval of cave-in sand recovered at 69m was similarly measured for magnetic susceptibility. All results are presented in Appendix 2. Eighty-two measurements were made, and of these sixty-nine registered zero on the meter; nine registered 0.1; three registered 0.2; and one registered 0.5. The highest reading came from the interval of cave-in sand recovered at 69m. It is believed this came from the zone of heavy core loss around 60 to 65m when the drill string was pulled off

the bottom of the hole overnight. Binocular microscope examination of this sand revealed quartz, pyrite, and mudstone fragments, and very minor grains of magnetite. It also revealed occasional slivers of steel which had worn off the drill string, so the source of this slightly elevated susceptibility is not entirely clear. What is fairly clear is that the susceptibility measurements do not provide an explanation of the surface magnetic anomaly. Because of the nature of the core recovery, however, susceptibility measurements across the entire section were not possible. The zone of greatest core loss, and hence poorest susceptibility coverage, occurs between 60m to the 65m, and is vertically below the peak of the ground magnetic anomaly tested by the hole (plan A1-516-0066).

4. DISCUSSION AND CONCLUSIONS

DDH SCP 255 was drilled to test a strong Crone P.E.M. anomaly which had been interpreted by a Tenneco geophysicist as having a westerly dip; possibly as flat as 60° (A. Barton pers. comm.). DDH SCP 255 intersected a sequence of sediments dipping $65-70^\circ$ West and which contain pyritic, graphitic mudstone units with significantly higher inductive conductivity values than the surrounding rocks. Projection of these mudstones back up dip at 70° places them directly under the P.E.M. anomaly (plan A1-516-0065). DDH SCP 255 would appear to have satisfactorily explained the source of the E.M. anomaly as a graphitic black mudstone. There are no significant geochemical values associated with the anomaly (or with any other rock encountered in the hole).

DDH SCP 256 cannot as easily explain the source of the magnetic anomaly on which it was targeted. The anomaly trend was interpreted as being due to a shallow steeply dipping source; dip greater than 80° east or west. Given these dip constraints SCP 256 adequately traversed the zone of interpreted anomaly source. Nothing recovered in the core, however, had sufficient magnetic susceptibility to explain the anomaly. Several possible explanations exist.

1. The hole went over the top of the anomaly.
2. The hole went underneath the anomaly.
3. The source of the anomaly lies in one of the zones of core loss within the hole.

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There are arguments for and against each of these possibilities.

1. DDH SCP 256 was a shallow flat-angled hole designed to intersect the anomaly zone at a vertical depth of about 40m. It could quite easily have passed over the top of a magnetic body. The magnetic anomaly however is narrow and sharp. Using half-maximum widths on the anomaly as an approximation to depth gives a depth of less than 30m to the top of the source. On balance it seems unlikely that the hole would have passed over the top of the anomaly source.

2. The hole could have passed beneath the anomaly in one of two ways:
 - a) If the anomalous source has no depth extent.
It seems unlikely that a feature which extends over 300m of strike could be restricted to less than 40m depth. One possible source which would fit these parameters is a fossil drainage channel or beach strand line at the base of the sand dune cover which contains detrital magnetite. The sludge sample collected between 9m and 12m did give a susceptibility meter reading of 0.2 which was the second highest reading obtained in the entire programme. While this may give some support to the detrital magnetite theory it is in no way a high enough susceptibility to explain the anomaly.

 - b) If the anomaly source has a flat easterly dip.
Under these circumstances the anomaly source could have considerable depth extent but still remain above the hole for its entire length. This again seems unlikely from the shape of the magnetic anomaly. The interpretation of steep dips seems the most reasonable in view of the high frequency nature of the magnetic response.

3. If one of the zones of core loss is the source of the magnetic anomaly it implies that the magnetic features are related to faulting. This is at least geologically feasible as fault zones often contain variable amounts of recrystallised magnetite. Projection of the magnetic anomaly vertically downwards coincides with the zone of strong core loss between 60 and 65m, which is also believed to be the source of the cave-in sand which gave the highest magnetic susceptibility reading encountered.

Taking all the above factors into consideration, the favoured interpretation is that the magnetic responses are due to fault zones in the sediments close to the contact of the Sandy Cape Granite. Intrusion of the Sandy Cape Granite may in some way be responsible for the zones of faulting. A second less

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favoured interpretation is that the magnetic features are reflecting buried channels, rich in detrital magnetite, at the base of the sand dune cover. Irrespective of the ultimate source of the magnetic anomaly, the rocks in the vicinity encountered by DDH SCP 256 are devoid of any significant geochemical values. The potential for the anomalies to be associated with any mineralisation system appears very low.

APPENDIX 1.

- Diamond Drill Logs - DDH SCP 255
- DDH SCP 256

ELECTROLYTIC ZINC CO. OF A'ASIA LTD. ROSEBERY - TASMANIA										DIAMOND DRILL CORE RECORD										01 HOLE No. (3.7) SCP 255 1 of 5	
LOCATION Sandy Cape J.V. E.L. 56/80					TOTAL DEPTH 110m					03			02								
OBJECTIVE To test a P.E.M. anomaly under stabilised sand dune cover.					HOLE SIZE BQ					9-12 Footage	13-16 Direction	17-18-21 Dip.	8-12 Footage	13-16 Direction	17-18-21 Dip.	ORE DIP. (8-11) -45°					
RESULT The P.E.M. response is most probably due to pyritic graphitic sandstone with no significant geochemical values.					COMMENCED 15th March, 1984											DIRECTION (16-19) 070°A.M.G.					
					COMPLETED 25th March, 1984											R.L. (20-23)					
					LOGGED BY I.R. McDonald											CO-ORDS. 375N; 320W					
																LOCATION Sandy Cape Grid No. 1					
		ROCK DESCRIPTION			MINERALISATION			04										CORE REC'D			
FROM	TO							SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag - g/t	44-49 Au - g/t	50-55 Fe%	RUN	SHORT	
0	16.5	No core recovery. Sands only.																			
16.5	17.3	White quartzite pebbles. 70ld beach pebbles on the old wavecut platform.																	16.5		
17.3	19.1	Dark grey to black laminated mudstone-siltstone, with thin laminations of fg quartz sandstone. Bedding laminations slightly irregular 65-80°. Rare thin quartz-carbonate pyrite veins upto 3mm thick. Lower contact gradational			Pyrite 3% as fg disseminations and as crystals in quartz-carbonate veins														17.4	0.55	
19.1	20.0	Grey f-mg weakly bedded quartz sandstone Bedding 80°. Lower contact 80°			1% fg disseminated pyrite														18.9	0.15	
20.0	20.8	Dark grey to black laminated mudstone-siltstone as per 17.3-19.1. Lower contact gradational with increasing fg sandstone laminae, possibly a gross grading indicating up-hole facing.			3% Pyrite as disseminations and very thin veinlets.														20.4	0.1	
20.8	25.6	Interbedded dark grey siltstone and grey f-mg quartz sandstone. Bedding slightly irregular 60-70°. Thin quartz-carbonate-pyrite veins 21.6-22.6 Broken and lost core. Silicified tectonic breccia annealed by quartz-carbonate-pyrite veins 23.3-23.7 Silicified weak tectonic breccia annealed by quartz-carb veining 24.0-24.7 Strong quartz-carb-pyrite veining 25.0-25.6 Gradational increase in sandstone content.			Pyrite 2% disseminations and in veins 3% cg Pyrite blebs 3% Pyrite														21.7	0.2	
25.6	26.6	Pale grey f-mg quartzite with rare interbeds of siltstone. Bedding 70°. Lower contact broken and lost core.																	22.9	0.95	
																			24.4	0.1	
																			25.9		
																			26.6	0.45	
																			27.4		
																			28.9	0.2	
																			30.4		
																			31.9	0.3	
																			88.9		
																			89.7	0.15	
																			102.2		
																			105.4	0.55	
																			106.9	0.55	
																			108.4	0.55	
																			109.4	0.45	
																			110		
																			EDH		

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ELECTROLYTIC ZINC CO OF A'ASIA LTD
ROSEBERY - TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. SCP 255 2 of 5

FOOTAGE		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE RECD	ASSAY DATA							CORE RECD		
FROM	TO							As%	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%	RUN	SHORT	
26.6	27.5	?Graded Unit. Dark grey to black mudstone at the top contains increasing amounts of interbedded grey fg quartz sandstone towards the base. Lower contact 65°. Bedding 60-70°	2% disseminated Pyrite. Rare bands of red-brown Limonite staining ?after pyrite														
27.5	29.4	Dark grey to black laminated ?graphitic mudstone. Lower contact broken core	Pyrite upto 5% in irregular bands														
29.4	30.3	Grey fg quartz sandstone and minor interbedded grey siltstone. Bedding 60° Lower contact gradational.	2% fg disseminated pyrite														
30.3	32.4	Dark grey laminated siltstone and mudstone with minor sandstone laminae. Bedding 70° Lower contact gradational	Pyrite 3% fg ?syngenetic bands and disseminations														
32.4	33.3	Pale grey silicified massive quartz sandstone. Contacts gradational	1% cg pyrite														
33.3	39.8	Grey laminated siltstone. Mudstone and fg sandstone. Laminations 65-75° in places are contorted on a very small scale:- pre-consolidation, plastic deformation 34.3-34.7 Dominantly fg quartz sandstone	2% fg disseminated pyrite Rare red-brown laminae of Limonite ?after pyrite														
39.8	42.2	Pale grey, weakly bedded, f-mg quartz sandstone. Weak bedding at 70° 40.7-41.5 Core very broken along strong jointing at 5° 41.5-41.7 Interbed of dark grey laminated siltstone at 60° Lower contact 70°	1% mg disseminated pyrite														
42.2	44.5	Dark grey to black laminated siltstone and mudstone. Laminations 70°. Lower contact broken core.	2% m-cg pyrite blebs lying along bedding														
44.5	46.2	Pale grey quartz sandstone as per 39.8-42.2. Lower contact broken core with thin pyrite veins.	1% mg dissem. pyrite														
46.2	53.2	Dark grey laminated siltstone and v.f.g. sandstone with occasional black mudstone partings. Laminations 65-70°. Weak grading suggests up-hole facing. 47.5-47.9 Dominantly grey f-mg quartz sandstone	3% pyrite as disseminations and in rare thin quartz-carbonate veinlets.														

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ELECTROLYTIC ZINC CO OF ASIA LTD ROSEBERY - TASMANIA		DIAMOND DRILL CORE RECORD										HOLE No. SCP 255 3 of 5								
FROM	TO	ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	Length	Sn	W	Au	Ag	Sb	As	Cu	Pb	Zn	Fe%	Mn	
53.2	54.4	48.2-48.7 Dominantly grey f-mg quartz sandstone Lower contact gradational		61163	17.3	20.0	2.4	2.7	X	X	X	X	X	10	10	5	20	1.55	35	
				164	20.0	23.0	1.8	3.0	X	X	0.02	X	6	8	10	5	20	1.85	45	
				165	23.0	25.6	2.5	2.6	X	X	X	X	4	15	15	5	15	2.20	45	
				166	25.6	27.5	1.65	1.9	X	X	X	X	4	15	10	5	15	3.15	25	
54.4	57.1	Greenish-grey fg massive quartz wacké weakly chloritic. Lower contact gradational	1-2% disseminated f-mg pyrite	167	27.5	30.3	2.6	2.8	X	X	0.01	X	X	4	16	15	5	10	1.80	15
				168	30.3	33.3	2.7	3.0	X	X	0.02	X	3	20	10	5	15	1.95	115	
				169	33.3	36.5	3.2	3.2	X	X	0.02	X	3	16	20	5	15	1.80	30	
				61170	36.5	39.8	3.3	3.3	4	X	0.01	X	4	20	15	10	10	2.15	25	
57.1	72.9	Interbedded pale grey fg sandstone and dark grey siltstone. Bedding 65-70° Grading implies up-hole facing. 54.8-55.0 Massive fg quartz sandstone 55.8-56.1 " " " 56.6-57.1 Contorted thin (5mm) interbeds of pale grey mg quartz sandstone Lower contact 70°	1% disseminated m-cg pyrite	171	39.8	42.2	2.4	2.4	X	X	X	X	X	4	20	5	10	1.35	105	
				172	42.2	44.5	2.3	2.3	5	X	0.02	X	7	20	25	5	15	1.65	55	
				173	44.5	46.2	1.7	1.7	X	X	0.01	X	4	12	35	X	15	2.00	125	
				174	46.2	50.0	3.8	3.8	X	X	0.02	X	4	15	20	5	15	1.85	60	
				175	50.0	53.2	3.2	3.2	3	X	X	X	5	21	20	X	30	3.10	145	
				176	53.2	54.4	1.2	1.2	X	X	X	X	5	5	20	10	50	3.90	305	
				177	54.4	57.1	2.7	2.7	X	X	X	X	3	5	25	X	35	2.65	155	
				178	57.1	60.0	2.9	2.9	X	X	0.01	X	X	9	25	X	25	2.30	105	
				179	60.0	63.0	3.0	3.0	3	X	0.01	X	4	20	5	20	2.25	65		
				61180	63.0	66.0	3.0	3.0	X	X	X	X	6	5	20	X	25	2.40	110	
				181	66.0	69.0	3.0	3.0	X	X	X	X	4	8	20	X	20	2.30	110	
				72.9	83.8	67.4-68.3 Increased pale grey sandstone component 69.3-70.0 Dominantly pale grey f-mg poorly bedded sandstone with minor quartz-carbonate veins and strong jointing. Lower contact gradational. Grey interbedded fg quartz sandstone and siltstone. Similar to above unit but with sandstone component dominant, and less well laminated. Bedding 55-60°. Jointing in rock increased ? as a reflection of more competent lithology. 75.9-76.4 Dominantly pale grey f-mg sandstone 78.2-80.2 Massive fg quartz sandstone with broken jointed sections. 80.2-80.6 Finely laminated siltstone-dominant section 81.5-81.7 Dark grey laminated mudstone rich section Lower contact gradational.	2-3% Pyrite in cg blebs and disseminations and rarely in thin quartz-carbonate veinlets	182	69.0	72.9	3.9	3.9	X	X	0.01	X	5	12	40	5
183	72.9	76.0	3.1					3.1	X	X	X	X	5	15	X	20	2.00	100		
184	76.0	79.0	3.0					3.0	X	X	X	X	6	10	5	20	2.30	135		
185	79.0	82.0	3.0					3.0	5	X	X	X	8	12	10	X	15	1.85	60	
186	82.0	83.9	1.9					1.9	X	X	X	X	4	9	10	X	20	2.55	105	
187	83.9	87.1	3.2					3.2	8	X	0.01	X	6	13	10	X	20	2.35	95	
188	87.1	88.4	1.3					1.3	X	X	0.01	X	3	4	10	X	25	2.70	135	
189	88.4	91.0	2.45					2.6	X	X	X	X	5	18	15	X	20	2.40	95	
61190	91.0	94.1	3.1					3.1	X	X	X	X	5	12	15	X	25	2.95	160	
191	94.1	97.2	3.1					3.1	X	X	0.01	X	X	59	15	X	20	2.25	105	
192	97.2	100.0	2.8					2.8	X	X	0.02	X	5	14	10	X	25	2.95	170	
83.8	87.1	Dark grey laminated siltstone and fg quartz sandstone as per 57.1-72.9. Bedding 60° Contacts gradational.	2% cg disseminated blebs of pyrite					193	100.0	103.0	3.0	3.0	X	X	0.01	X	5	14	15	10
				194	103.0	105.4	1.85	2.4	X	X	0.01	X	X	13	10	10	25	2.95	200	
				195	105.4	107.9	1.6	2.5	X	X	X	X	6	56	15	5	30	3.40	455	
				196	107.9	108.3	0.3	0.4	X	X	0.02	X	5	91	10	5	10	0.57	270	
				197	108.3	110.0	1.2	1.7	X	X	X	X	5	14	20	10	20	2.50	165	

ELECTROLYTIC ZINC CO OF A'ASIA LTD ROSEBERY - TASMANIA		DIAMOND DRILL CORE RECORD						HOLE No. SCP. 255 A of 5									
FOOTAGE		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA							CORE REC'D		
FROM	TO							Sample Length	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%	RUN	SHORT	
87.1	87.6	Slightly greenish grey poorly bedded fg quartz sandstone. Core very broken Lower contact ?gradational - core broken.	3% disseminated Pyrite														
87.6	88.25	Laminated pale grey and black mudstone Black laminae are graphitic. Bedding 55° Cleavage 25° 88.1-88.25 Weak breccia texture	1% fg disseminated Pyrite														
88.25	88.4	Strongly brecciated, pale grey fg Sandstone and siltstone. Contacts broken core	1% fg disseminated Pyrite														
88.4	90.5	Laminated pyritic, graphitic, black mudstone and dark grey siltstone. Mudstone decreases downwards and thin fg sandstone laminae increase. Bedding 65-70%. Lower contact very gradational	Pyrite upto 5% decreasing downwards to 2%														
90.5	91.9	Transitional unit from laminated siltstone and fg quartz sandstone as per 51.7-72.9 becoming more sandstone rich downwards into a unit similar to 72.9-83.8. Lower contact gradational	1-2% pyrite as disseminations and in rare thin quartz-carbonate-pyrite veinlets.														
91.9	92.8	Pale grey poorly bedded f-mg quartz sandstone. Lower contact 65°	1% m-cg disseminated Pyrite														
92.8	94.1	Interbedded grey fg quartz sandstone and siltstone. Bedding 65°. Rare thin (upto 8mm) quartz-carbonate veins mostly at 25° Lower contact diffuse 55°	1-2% disseminated Pyrite plus pyrite associated with quartz-carb veins														
94.1	97.2	Laminated black graphitic mudstone and dark grey siltstone. Bedding 65°. Minor soft-sediment contortion of bedding. Lower contact gradational over 100mm	3-5% Pyrite as m-cg dissem. blebs & occasional thin bands along the bedding.														
97.2	105.4	Interbedded grey fg quartz sandstone and siltstone. Bedding 65-70°. Lower contact ?gradational - broken and lost core.	2% mg disseminated Pyrite														
105.4	107.0	Black pyritic mudstone with irregular white quartz-carbonate veins, especially from 105.4-106.0. Core very broken, recovery 60%	Pyrite 3-5% fg disseminated														

ELECTROLYTIC ZINC CO OF ASIA LTD
ROSEBERY - TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. SCP 255 5 of 5

FOOTAGE		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA						CORE REC'D		
FROM	TO							Sample Length	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%	RUN	SHORT
107.0	107.9	Puggy black and grey clay with mudstone and siltstone rock fragments. Recovery 30%														
107.9	108.3	White quartz-carbonate vein material. Core very broken. Recovery 90%	5% cg disseminated Pyrite													
108.3	109.3	Black puggy clay with mudstone-siltstone fragments. Recovery 50%	3% Pyrite													
		Zone from 105.4-109.3 looks like a fairly major Fault Zone														
109.3	110.0	Finely interbedded grey siltstone and fg sandstone. Bedding 20°. Core very broken Recovery 100%	1% fg disseminated Pyrite													
		End of Hole 110.0m														

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ELECTROLYTIC ZINC CO. OF A'ASIA LTD. ROSEBERRY - TASMANIA										DIAMOND DRILL CORE RECORD										01 HOLE No. (3-7) SCP 256 1 of 4	
LOCATION Sandy Cape J.V. E.L. 56/80					TOTAL DEPTH 84.8m					03			02								
OBJECTIVE To test a ground magnetic anomaly under a cover of stabilised dune sands.					HOLE SIZE BQ					8-12 Footage	13-16 Direction	17-18-21 Dip.	8-12 Footage	13-16 Direction	17-18-21 Dip.	ORE DIP. (8-13) COLLAR DIP. (12-15) -45° DIRECTION (16-19) 055°A.M.G. R.L. (20-23) 18m CO-ORDS. 300N; 390W LOCATION Sandy Cape Grid					
RESULT Poor core recovery prevents definitive result. Magnetic source is most probably magnetite bearing fault zones.					COMMENCED 30th March, 1984					COMPLETED 8th April, 1984					LOGGED BY I.R. McDonald						
METRES		ROCK DESCRIPTION	MINERALISATION	04										CORE REC'D							
FROM	TO			SAMPLE No.	8-13 FROM	14-19 TO	CORE REC'D	Sample Length	20-25 Pb%	26-31 Zn%	32-37 Cu%	38-43 Ag -g/t	44-49 Au -g/t	50-55 Fe%	RUN	SHORT					
0	12.6	No core. Sand cover.														12.6					
12.6	14.6	Variety of rock types. Pebbles from ?old beach surface. White massive Quartzite; grey fg quartz wacké; Green strongly chloritic felsic ?volcanic														13.6	0.75				
14.6	15.4	White and green brecciated fg rhyolitic lava or minor intrusive. Brecciated blocks of kaolinised rhyolite are annealed by anastomosing veins of chlorite.	3% cg blebs of Pyrite													14.4	0.65				
15.4	16.0	White silicified and kaolinised fg rhyolite Breccia texture poorly developed, and less abundant carbonate veins replace the chlorite veins of the above section.	2-3% f-mg disseminated Pyrite													14.6	0.10				
16.0	?17.4	White and green brecciated rhyolite as per 14.6-15.4	3% cg blebs of Pyrite 16.8 10mm wide vein of Pyrite													15.4	0.10				
?17.4	18.4	Cream fg rhyolite. Almost total argillic alteration to sericite and kaolinite. May be due to surface weathering and oxidation. Core very broken.														16.9	0.30				
18.4	18.5	Chips of white vein quartz														18.4	0.70				
18.5	18.8	Pale cream fg moderately argillised (?weathered) Rhyolite with very thin chloritic and carbonate veinlets.														18.8					
18.8	19.0	White and green brecciated rhyolite as per 14.6-16.4. Lower contact gradational	2% cg Pyrite													19.8	0.2				
19.0	19.3	Dark green rock almost 100% chlorite Gradational contacts suggest it is chloritised rhyolite.	2% fg disseminated Pyrite													20.2					
																21.4	0.25				
																22.9	0.65				
																23.9	0.75				
																24.4	0.45				
																25.0	0.45				
																25.9	0.75				
																26.6	0.60				
																27.4	0.70				
																28.9	1.05				
																29.7	0.65				
																30.4	0.50				
																31.2	0.55				
																31.9	0.50				
																32.6	0.35				
																33.4	0.40				
																34.0	0.25				
																34.9	0.60				
																35.6	0.05				
																36.5	0.15				
																37.9	0.50				
																38.7	0.60				
																39.4	0.70				
																40.3	0.25				
																40.9	0.60				
																41.5	0.30				
																42.4	0.55				
																42.7	0.15				
																43.1	0.40				

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ELECTROLYTIC ZINC CO OF A'ASIA LTD ROSEBERY - TASMANIA		DIAMOND DRILL CORE RECORD						HOLE No. SCP 256 2 of 4									
METRES		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA							CORE REC'D		
FROM	TO							Moisture Loss%	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%	RUN	SHORT	
19.3	22.9	Pale cream, variably argillised and chlorite veined fg rhyolite. Variably brecciated.	% fg disseminated Pyrite												43.3	0.10	
															43.9	0.35	
															44.7	0.80	
22.9	25.0	Core recoveries very poor. Chips consist of brecciated and argillised rhyolite and green chlorite rock.	3% m-cg blebs and disseminations of Pyrite												45.4	0.45	
															46.1	0.70	
															46.9	0.20	
															47.8	0.45	
25.0	25.9	Green strongly chloritised ?rhyolite	5% Pyrite in cg blebs and irregular veinlets.												48.8	0.60	
															49.9	0.15	
															51.4	0.70	
25.9	27.4	Possible contact zone. Very poor recoveries Chips are variably argillised and chloritised ?rhyolite	5% Pyrite in mg veinlets and blebs												52.9	1.20	
															53.5	(+0.0)	
															54.4	0.20	
															55.4	0.50	
27.4	28.9	Grey brecciated carbonate veined siltstone	3% disseminated fg Pyrite												55.9	0.25	
															56.6	0.65	
28.9	31.2	Dry interbedded siltstone/mudstone weak to moderately argillised (?weathered) Thin carbonate veinlets.	1-2% fg dissemination Pyrite												57.4	0.65	
															57.8	0.30	
															58.5	0.35	
															58.9	0.05	
31.2	31.8	Black puggy clay sludge with fragments of black mudstone and grey siltstone													60.1	0.65	
															60.4	0.15	
															61.9	1.40	
31.8	35.8	Greenish grey ?interbedded. (Core mostly broken fragments) Siltstone and fg Quartz Sandstone. Argillic alteration (?oxidation) is moderate to strong in places.	31.8-34.0 5% Pyrite as fg disseminations and cg blebs 34.0-35.8 2-3% Pyrite												62.5	1.48	
															63.4	0.90	
															64.2	0.80	
															64.9	0.70	
															65.7	0.60	
35.8	36.5	Black mudstone with thin carbonate veinlets Lower contact gradational	5% fg disseminated Pyrite												66.3	0.40	
															66.8	0.40	
															67.4	0.60	
36.5	37.9	Grey argillised mudstone with thin carbonate veinlets and weak breccia textures	2% disseminated Pyrite												67.9	0.15	
															68.3	0.30	
															68.9	0.60	
37.9	47.0	Black puggy clay sludge containing fragments and occasional complete cores of black mudstone.	5% M-cg disseminated Pyrite throughout												69.7m	of sam	
															cave in		
															69.2		
															69.4	(+0.1)	
47.0	48.7	Grey massive silicified Quartzite with chloritic partings. Core very broken	3% f-mg Pyrite, mostly associated with chloritic partings.												70.0	0.40	
															70.9	0.90	
															71.3	0.50	
48.7	58.9	Dark grey to black laminated mudstone/siltstone with occasional thin f-mg sandstone lamellae. Bedding 70°	3% Pyrite in irregular bands and veinlets and as disseminations.												71.8	0.30	
															72.1	0.30	
															72.4	0.10	
															73.0		
58.9	60.1	Black mudstone chips in black sludge.	3% f-mg disseminated Pyrite												73.9	0.25	
															74.7	(+0.20)	

ELECTROLYTIC ZINC CO OF ASIA LTD
ROSEBERY - TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No. SCP 256 3 of

METRES		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA (All samples are chip samples)											
FROM	TO							g/tg	Sn	W	Au	Ag	Sb	As	Cu	Pb	Zn	Fe%	Mn
60.1	67.4	Very poor recovery. Scattered chips of white vein quartz; grey fg quartz wacké; grey siltstone; and greenish-grey chloritised sandstone.	upto 5% mg disseminated Pyrite. Strongest in the chloritic chips	61201	14.6	17.4	2.10	2.8	X	X	0.01	X	X	17	5	5	10	2.45	495
				201	17.4	19.0	1.20	1.6	X	X	0.01	X	5	40	5	5	10	1.55	35
				203	19.0	19.3	0.30	0.3	X	X	X	X	8	7	10	10	35	7.60	130
				204	19.3	25.0	3.05	5.7	X	124	0.01	X	6	14	5	X	10	2.20	70
				205	25.0	25.9	0.15	0.9	X	X	0.03	X	16	15	10	5	35	4.00	255
67.4	68.0	White massive quartz vein with inclusions of chloritic mudstone		206	25.9	27.4	0.20	1.5	4	X	0.02	X	10	40	10	5	20	3.20	430
				207	27.4	28.9	0.45	1.5	X	X	0.01	X	21	13	5	X	10	1.75	95
				208	28.9	31.2	0.60	2.3	X	X	X	X	X	24	10	X	20	2.60	255
68.0	68.9	A few chips of black mudstone and white vein quartz		209	31.2	31.8	0.30	0.6	4	X	X	X	6	15	20	X	30	8.55	3000
				61210	31.8	35.8	2.40	4.0	X	X	0.02	X	9	85	10	X	30	3.35	145
68.9		Approximately 0.9m of sand was recovered at this point. The sand is all from hole cave-in when the rods were pulled. It is thought to have come from the zone of heavy core loss around 60-65m. The sand is composed of Quartz, Pyrite and mudstone fragments upto 1.5mm in size, plus very minor grains of magnetite.		211	35.8	37.9	1.45	2.1	X	X	X	X	8	15	5	X	15	1.70	80
				212	37.9	42.7	1.55	4.8	X	X	0.01	X	14	74	25	10	30	9950	65
				213	43.1	47.0	1.30	3.9	X	X	X	X	4	21	15	30	85	3.15	175
				214	47.0	48.7	0.60	1.7	X	X	X	X	4	56	25	X	20	3.15	205
				215	48.7	53.5	2.80	4.8	X	X	X	X	3	27	15	X	20	2.65	110
				216	53.5	58.9	2.45	5.4	X	X	X	X	4	19	5	X	20	3.20	180
				217	58.9	60.1	0.45	1.2	X	X	0.03	X	11	140	25	25	35	5250	210
				218	60.1	68.9	1.30	8.8	X	X	X	X	3	34	15	5	10	1.50	115
				219	68.9	Cave in Sand			X	22	0.02	X	6	130	35	5	25	8500	270
				61220	68.9	70.0	0.80	1.1	X	X	X	X	4	21	25	X	5	1.65	110
68.9	70.0	White very strongly silicified and quartz veined siltstone. Rock is almost entirely quartz vein.	5% fg disseminated Pyrite	221	72.4	75.2	2.75	2.8	X	X	0.01	X	6	23	15	X	20	2.55	160
				222	75.2	77.8	2.45	2.6	X	X	0.01	X	3	22	20	X	20	3.20	510
				223	77.8	80.8	1.45	3.0	X	X	X	X	X	5	5	X	25	4.30	715
61224	80.8	84.8	2.40	4.0	X	X	X	X	3	9	10	X	20	3.30	190				
70.0	72.4	Almost no core recovery. A few scattered chips of black mudstone and black sludge.																	
72.4	72.6	Black laminated mudstone/siltstone. Bedding about 65° but is contorted by slump breccia	5% cg Pyrite in veinlets																
72.6	73.6	Black graphitic mudstone and black sludge.	2% disseminated Pyrite																
73.6	74.7	Dark grey laminated siltstone and fg quartz sandstone. Bedding mostly 50° with minor slump folding.	2% disseminated cg pyrite																
74.7	75.2	Black sludge containing chips of mudstone siltstone, fg quartz sandstone and white vein quartz																	
75.2	77.8	Dark grey laminated siltstone and fg quartz sandstone and minor mudstone. Bedding mostly 60° 75.7-76.1 Dominantly f-mg quartz wacké	3% Pyrite as disseminations and minor irregular veinlets																
77.8	778.5	Silicified; quartz-carbonate veined, and brecciated siltstone	2-3% fg disseminated Pyrite																

ELECTROLYTIC ZINC CO OF ASIA LTD ROSEBERY - TASMANIA		DIAMOND DRILL CORE RECORD						HOLE No. SCP 256 4 of 4									
FOOTAGE		ROCK DESCRIPTION	MINERALISATION	SAMPLE NO.	FROM	TO	CORE REC'D	ASSAY DATA							CORE REC'D		
FROM	TO							Losses Lugm	Pb%	Zn%	Cu%	Ag - g/t	Au - g/t	Fe%	RUN	SHORT	
778.5	80.8	Recovery very poor. Chips are fg quartz wacké; vein quartz; and siltstone													75.4		
															76.5		
															76.9	0.15	
															77.8		
															79.4	(+0.1)	
															79.9	0.25	
															80.3	0.20	
															80.8	0.25	
															81.4	0.20	
															81.9	0.50	
															82.1	0.10	
															82.3	0.05	
															82.9	0.30	
															83.6	0.05	
															83.8	0.10	
															84.1		
															84.8	0.30	
															EOH		
		End of Hole 84.8m															

APPENDIX 2.

Magnetic Susceptibility Results - DDH SCP 255

- DDH SCP 256

MAGNETIC SUSCEPTIBILITY SURVEY

353022

021

INSTRUMENT: Scintrex Geophysical Company Mag. Susc. Meter, Model SM-5 Serial BCO 534

BORE HOLE NO.: SCP 255			DATE: April, 1984			OPERATOR: W. Moyle		
Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units
17.6	0		27.2	0		37.0	0	
17.8	0		27.4	0		37.2	0	
18.0	0		27.6	0		37.4	0	
18.2	0		27.8	0		37.6	0	
18.4	0		28.0	0		37.8	0	
18.6	0		28.2	0		38.0	0	
18.8	0		28.4	0		38.2	0	
19.0	0		28.6	N.R.		38.4	0	
19.2	0		28.8	N.R.		38.6	-0.1	0
19.4	0		29.0	0		38.8	0	
19.6	0		29.2	0		39.0	0	
19.8	0		29.4	N.R.		39.2	0	
20.0	0		29.6	0		39.4	0	
20.2	0		29.8	0		39.6	0	
20.4	0		30.0	0		39.8	0	
20.6	0		30.2	0		40.0	0	
20.8	0		30.4	0		40.2	0	
21.0	0		30.6	0		40.4	0	
21.2	0		30.8	0		40.6	0	
21.4	0		31.0	0		40.8	N.R.	
21.6	0		31.2	0		41.0	-0.1	0
21.8	N.R.		31.4	N.R.		41.2	N.R.	
22.0	N.R.		31.6	0		41.4	N.R.	
22.2	N.R.		31.8	0		41.6	N.R.	
22.4	N.R.		32.0	0		41.8	N.R.	
22.6	N.R.		32.2	0		42.0	0	
22.8	0		32.4	0		42.2	N.R.	
23.0	0		32.6	0		42.4	N.R.	
23.2	0		32.8	0		42.6	0	
23.4	0		33.0	0		42.8	0	
23.6	0		33.2	-0.1		43.0	N.R.	
23.8	0		33.4	0		43.2	0	
24.0	N.R.		33.6	0		43.4	0	
24.2	N.R.		33.8	0		43.6	0	
24.4	0		34.0	N.R.		43.8	0	
24.6	0		34.2	N.R.		44.0	0	
24.8	0		34.4	N.R.		44.2	0	
25.0	0		34.6	0		44.4	0	
25.2	0		34.8	0		44.6	0	
25.4	0		35.0	0		44.8	0	
25.6	0		35.2	0		45.0	0	
25.8	0		35.4	0		45.2	0	
26.0	0		35.6	N.R.		45.4	0	
26.2	N.R.		35.8	N.R.		45.6	0	
26.4	N.R.		36.0	0		45.8	0	
26.6	0		36.2	0		46.0	0	
26.8	0		36.4	0		46.2	0	
27.0	0		36.6	0				
			36.8	0				

022

353023

INSTRUMENT: Scintrex Geophysical Company Mag. Susc. Meter, Model SM-5 Serial BCO 534

BORE HOLE NO.: SCP 255			DATE: April, 1984			OPERATOR: W. Moyle		
Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units
46.4	0		56.0	0		65.8	0	
46.4	0		56.2	0		66.0	0	
46.6	0		56.4	0		66.2	0	
46.8	0		56.6	0		66.4	0	
47.0	0		56.8	0		66.6	0	
47.2	0		57.0	0		66.8	0	
47.4	0		57.2	0		67.0	0	
47.6	0		57.4	0.1	200	67.2	0	
47.8	0		57.6	0		67.4	0	
48.0	0		57.8	0		67.6	0	
48.2	0		58.0	0		67.8	0	
48.4	N.R.		58.2	0		68.0	0	
48.6	N.R.		58.4	0		68.2	0	
48.8	0		58.6	0		68.4	0	
49.0	0		58.8	0		68.6	N.R.	
49.2	0		59.0	0		68.8	0	
49.4	0		59.2	0		69.0	0	
49.6	0		59.4	0		69.2	0	
49.8	0		59.6	0		69.4	0	
50.0	0		59.8	0		69.6	0	
50.2	0		60.0	0		69.8	0	
50.4	0		60.2	0		70.0	0	
50.6	0		60.4	0		70.2	0	
50.8	0		60.6	0		70.4	0	
51.0	0		60.8	0		70.6	N.R.	
51.2	0		61.0	0		70.8	0	
51.4	0		61.2	0		71.0	0	
51.6	0		61.4	0.1	200	71.2	0	
51.8	0		61.6	0		71.4	0	
52.0	0		61.8	0		71.6	0	
52.2	0		62.0	0		71.8	N.R.	
52.4	0		62.2	0		72.0	0	
52.6	0		62.4	0		72.2	0	
52.8	0		62.6	0		72.4	0.1	200
53.0	0		62.8	0		72.6	0	
53.2	0		63.0	0		72.8	0	
53.4	0		63.2	0		73.0	0	
53.6	0		63.4	0		73.2	0	
53.8	0		63.6	0		73.4	0	
54.0	0		63.8	0		73.6	0	
54.2	0		64.0	0		73.8	0	
54.4	0		64.2	0.1	200	74.0	0	
54.6	0		64.4	0		74.2	0	
54.8	0		64.6	0		74.4	0	
55.0	0		64.8	0		74.6	0	
55.2	0		65.0	0		74.8	0	
55.4	0		65.2	0		75.0	0	
55.6	0		65.4	0		75.2	0	
55.8	0		65.6	0		75.4	N.R.	

N.R. = No reading due to broken core

023

INSTRUMENT: Scintrex Geophysical Company Mag. Susc. Meter, Model SM-5 Serial 500 534

BORE HOLE NO.: SCP 255			DATE: April, 1984			OPERATOR: W. Moyle		
Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units
75.6	0		86.0	0		97.0	0	
75.8	0		86.2	0		97.2	0.1	200
76.0	0		86.4	0		97.4	0	
76.2	0		86.8	0		97.6	0	
76.4	0		87.0	0		97.8	0	
76.6	0		87.2	N.R.		98.0	0	
76.8	N.R.		87.4	N.R.		98.2	0	
77.0	0		87.6	0		98.4	0	
77.2	0		87.8	0		98.6	N.R.	
77.4	0.1	200	88.0	0		98.8	0	
77.6	0		88.2	N.R.		99.0	0	
77.8	0		88.4	N.R.		99.2	0	
78.0	0		88.6	0		99.4	0	
78.2	0		88.8	0		99.6	0	
78.4	0		89.0	0		99.8	0	
78.6	N.R.		89.2	0		100.0	0	
78.8	0		89.4	0		100.2	0	
79.0	0		89.6	0		100.4	0	
79.2	N.R.		89.8	0		100.6	0	
79.4	0		90.0	0		100.8	0	
79.6	N.R.		90.2	0		101.2	0	
79.8	N.R.		90.4	0		101.4	0	
80.0	0		90.6	0		101.6	0	
80.2	0		90.8	0		101.8	0	
80.4	0		91.0	0		102.0	0	
80.6	0		91.2	0		102.2	0	
80.8	0		91.4	0		102.4	0	
81.0	0		91.6	0		102.6	0	
81.2	0		91.8	0		102.8	0	
81.4	0		92.0	0		103.0	0	
81.6	0		92.2	0		103.2	0	
81.8	0		92.4	0		103.4	0	
82.0	0		92.6	0		103.6	0	
82.2	0		92.6	0		103.8	0	
82.4	0		92.8	0		104.0	0	
82.6	0		93.0	0		104.2	0	
82.8	0		93.2	0		104.4	N.R.	
83.0	0		93.4	0		104.6	N.R.	
83.2	0		93.6	0		104.8	0	
83.4	0		93.8	0		105.0	N.R.	
83.6	0		94.0	0		105.2	N.R.	
83.8	0		94.2	0		105.4	0	
84.0	0		94.4	0		105.6	N.R.	
84.2	0		94.6	0		105.8	0	
84.4	0		94.8	0		106.0	N.R.	
84.6	0		95.0	0		106.2	N.R.	
84.8	N.R.		95.2	0		106.4	N.R.	
85.0	0		95.4	0		106.6	N.R.	
85.2	0		95.6	0		106.8	0	
85.4	0		95.8	0		107.0	0	
85.6	0		96.0	0		107.2	0	
85.8	0		96.2	0		107.4	0	
			96.4	0		107.6	0	
			96.8	0		107.8	N.R.	

N.R. = No reading due to broken core

024

353025

INSTRUMENT: Scintrex Geophysical Company Mag. Susc. Meter, Model SM-5 Serial 800 53

BORE HOLE NO.: SCP 255			DATE: April, 1984			OPERATOR: W. Moyle		
Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units
108.0	0							
108.2	0							
108.4	0							
108.6	0							
108.8	N.R.							
109.0	N.R.							
109.2	0							
109.4								
109.6	0							
109.8								
110.0	0							

N R - No reading due to broken core.

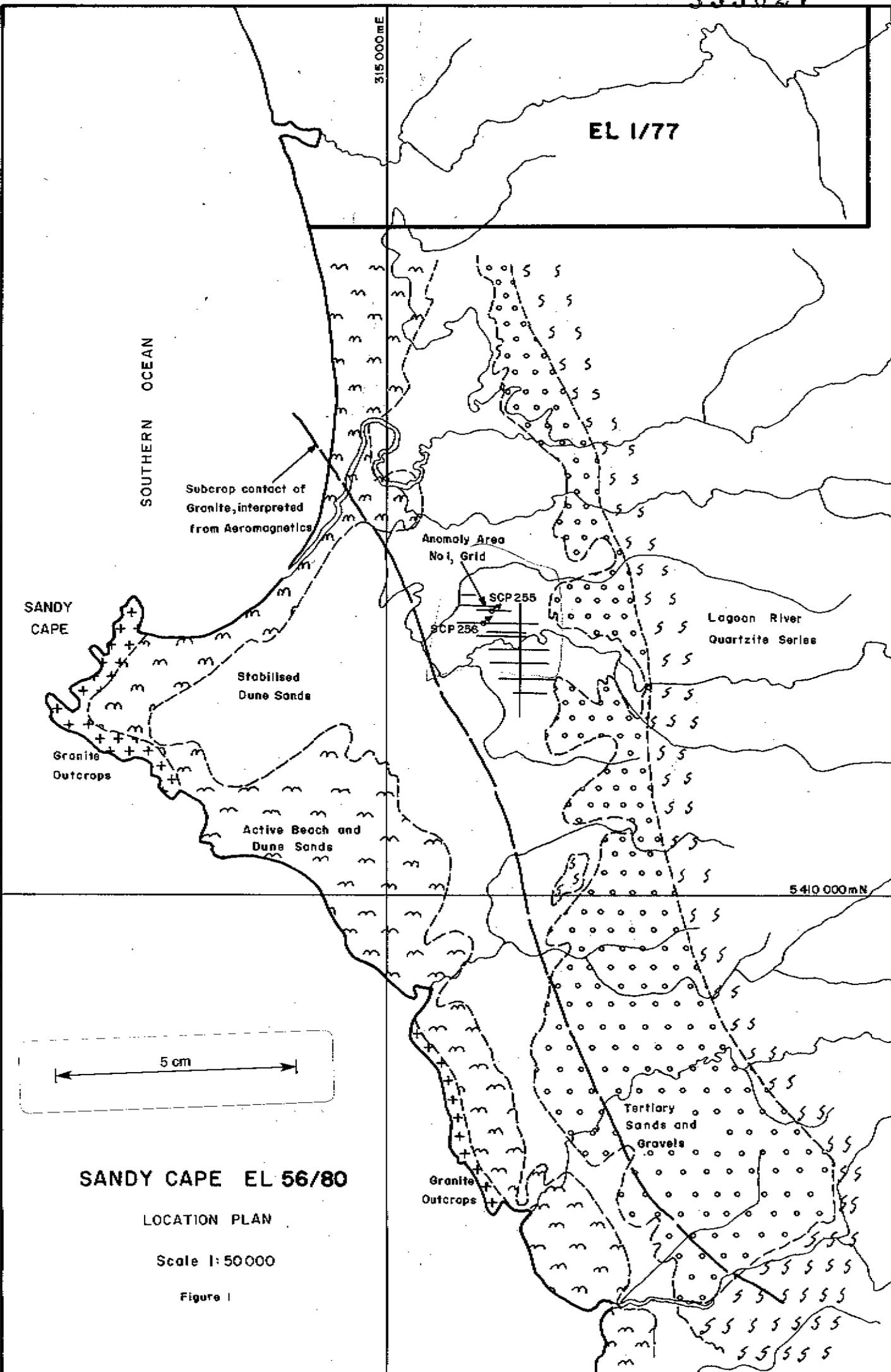
MAGNETIC SUSCEPTIBILITY SURVEY

353026

025

INSTRUMENT: Scintrex Geophysical Company Mag. Susc. Meter, Model SM-5 Serial 800 534

BORE HOLE NO.: DDH SCP 256				DATE: 7th April, 1984		OPERATOR: I.R. McDonald	
Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Comments	Depth (m)	Meter Reading	Corrected Value 10 ⁻⁶ c.g.s. units	Comments
0-3m	0		Sludge	51.0	0		B.Q. core
3-6m	0		"	53.4	0.1	200	"
6-9m	0		"	54.2	0.1	200	"
9-12m	0.2	300	"	55.0	0		"
				55.7	0		"
14.8	0		B.Q. core	58.4	0		"
15.2	0		"	60.3	0.2	300	Chips
15.7	0		"	66.0	0		"
16.7	0		"	67.8	0		B.Q. core
18.6	0		"	69.0	0.5	750	Sand-hole cave in
19.0	0		"				B.Q. core
19.3	0		"	69.1	0		"
19.4	0		"	69.4	0		"
20.3	0		"	72.5	0		"
21.1	0		"	72.8	0		"
21.5	0		"	73.0	0		"
22.8	0		"	74.5	0		"
23.8	0		"	74.5	0		"
25.8	0		"	74.7	0.1	200	"
27.4	0		"	75.0	0.2	400	"
28.0	0		"	75.2	0		"
28.7	0		"	75.4	0		"
30.0	0		"	75.8	0		"
31.0	0		"	76.0	0		"
31.5	0		"	76.2	0		"
32.0	0		"	76.4	0		"
32.7	0		"	76.6	0		"
33.0	0.1	200	"	77.1	0		"
35.0	0		"	77.5	0		"
35.7	0		"	79.0	0		"
36.1	0.1	200	"	80.5	0		Chips
36.5	0.1	200	"	82.7	0		B.Q. core
37.0	0		"	82.8	0.1	200	"
37.7	0		"	83.0	0		"
38.6	0.1	200	"	83.4	0		"
40.0	0		"	83.9	0		"
41.3	0		"	84.5	0		"
41.6	0		"				
42.6	0		"				
43.7	0		"				
46.2	0		"				
46.8	0		"				
47.5	0		"				
48.5	0		"				
48.9	0.1	200	"				
49.3	0		"				
49.8	0		"				



SANDY CAPE EL 56/80

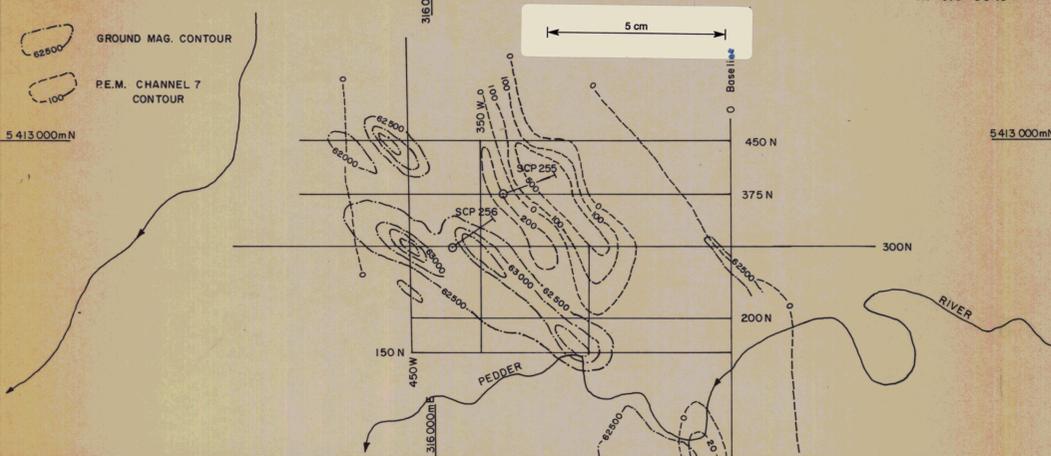
LOCATION PLAN

Scale 1:50000

Figure 1

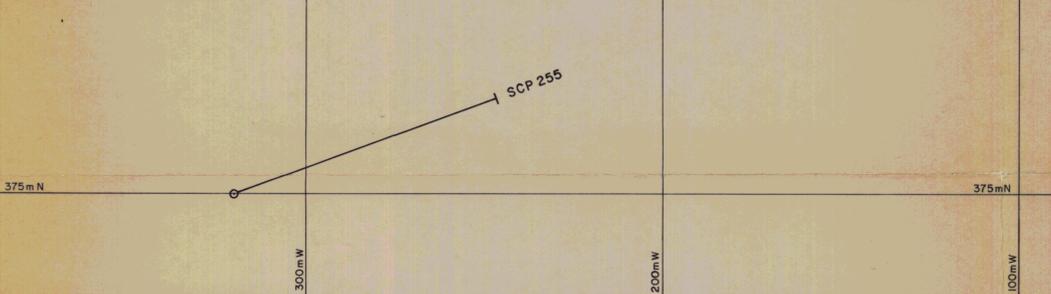
GEOLOGICAL PLAN OF HOLE LOCALITY

SCALE: 1:5000 FROM DRAWING NO.: A2-516-006A
A1-516-0043



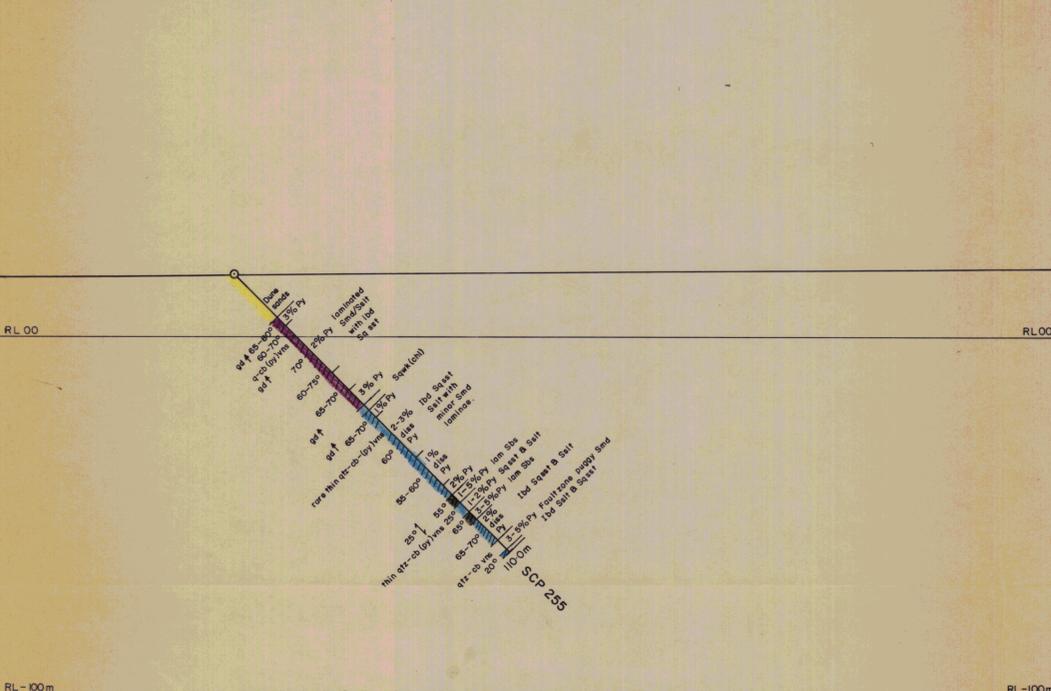
PLAN OF DRILLHOLE

SCALE: 1:1000



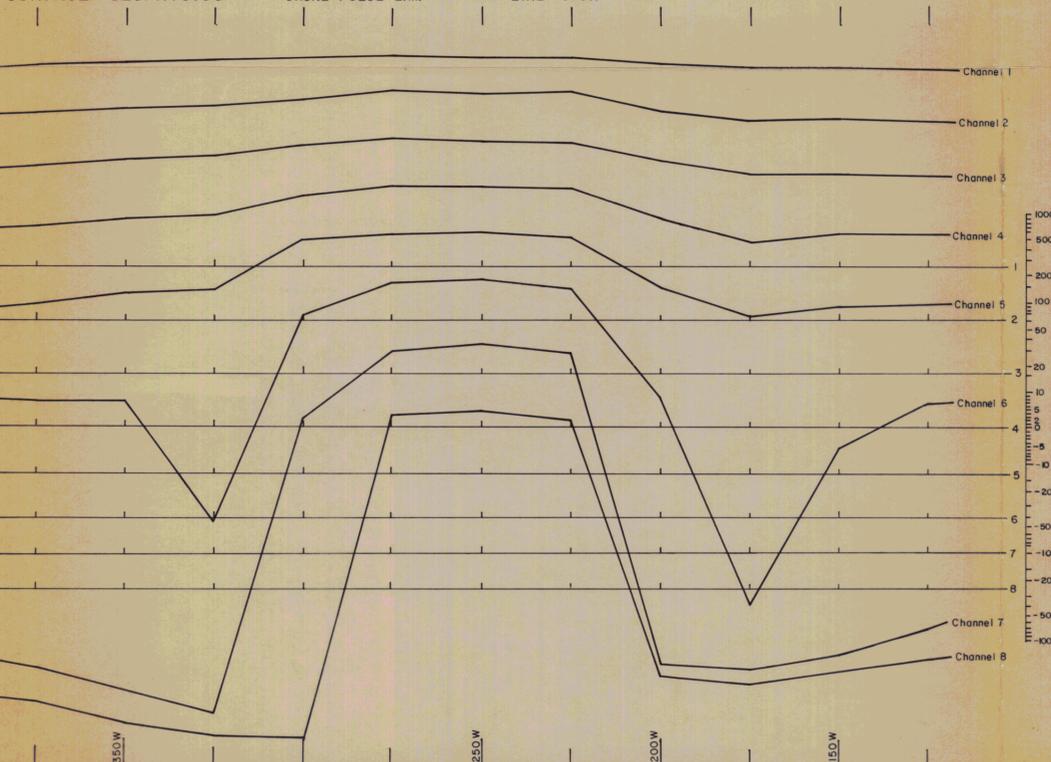
DRILLHOLE CROSS SECTION

SCALE: 1:1000



SURFACE GEOPHYSICS

CRONE PULSE E.M. LINE 375N



DOWN HOLE INFORMATION

Lithology	Mineraln	Depth (m)	GEOCHEMISTRY					GEOPHYSICS	
			10	20	30	40	50		
Stabilised Dune Sands		0							
Laminated mudstone siltstone with interbedded f.g. quartz sandstone.	3% Pyrite 2% disc py 2% disc py 3% Py in blebs 2% disc py	25						1.02	9.77
Grading gives up-hole facing	3% Py, disc and in carb veinlets	50						10.50	
Int. qtz wacke	1% disc py	75						1.23	
Interbedded f.g. quartz sandstone and siltstone with minor mudstone laminae	2 to 3% Py in c.g. blebs and dissem.	100						20.90	
Lam. block mudstone	1% disc py	125						0.23	
Quartz sandstone and siltstone	1 to 5% disc py	150						55.80	
Lam. block mudstone	3 to 5% disc py	175						14.90	
Interbedded f.g. quartz sandstone and siltstone	2% mg disc py	200						1.98	
Block puggy mudstone and qtz-carbonate siltstone	3 to 5% disc py 1% py	225							
		250							
		275							
		300							
		325							
		350							
		375							
		400							
		425							
		450							

SUMMARY OF COMPLETED HOLE

SPECIFICATIONS OF PROPOSED HOLE

CO-ORDINATES	NORTHING	EASTING	R. L.	CO-ORDINATES	NORTHING	EASTING	R. L.
LOCAL GRID	375	320	18m	LOCAL GRID	375 N	320 W	18m
A.M.G.	5,412,925	316,095	18m	A.M.G.	5,412,925 m N	316,095 m E	18m

AZIMUTH: 070°AMG DIP: -45° TOTAL DEPTH: 110m
 COMMENCEMENT DATE: 15-3-84 COMPLETION DATE: 25-3-84
 ESTIMATED COMMENCEMENT: March 1984

INTERNAL SURVEY INFORMATION			ANTICIPATED GEOLOGY		
DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP
0-10m			0-10m		
10-110m			10-110m		

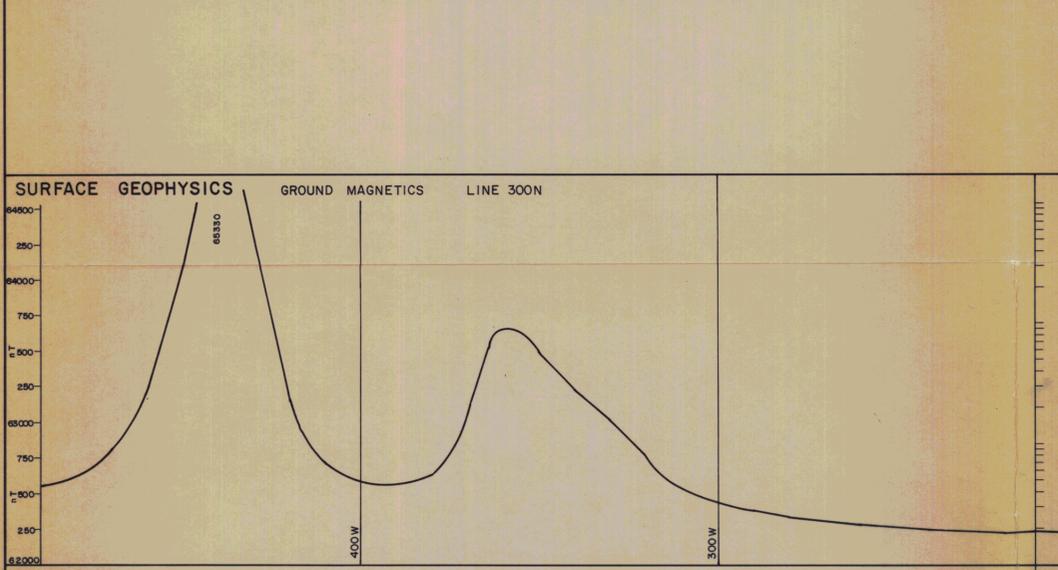
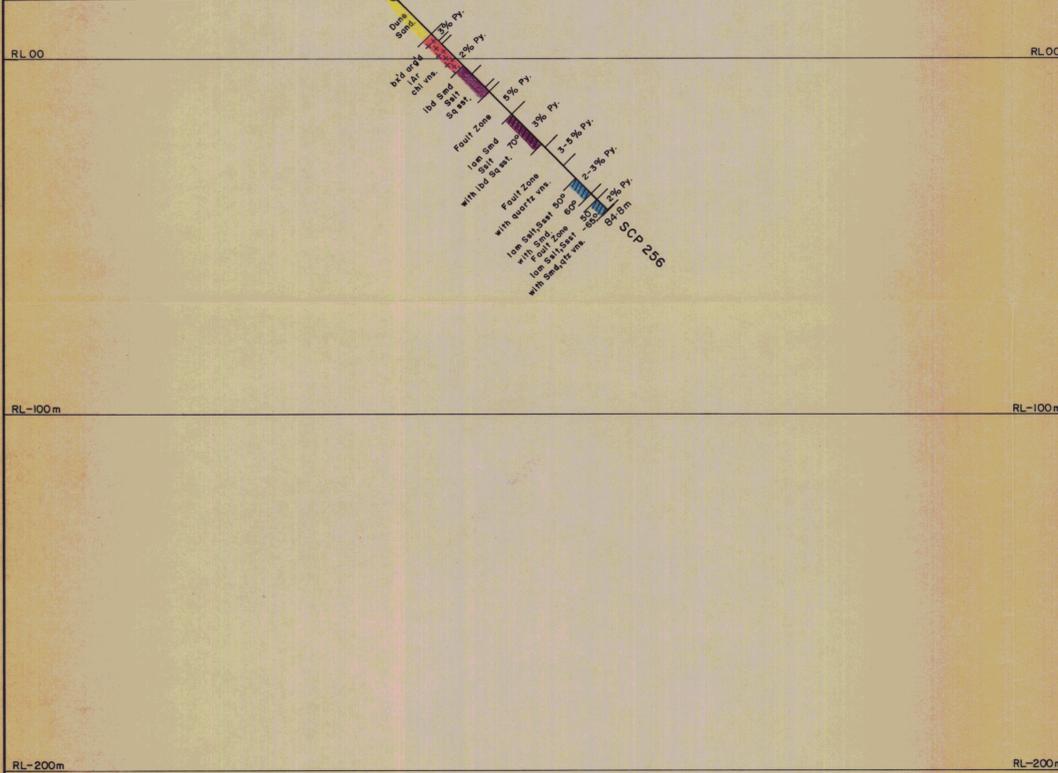
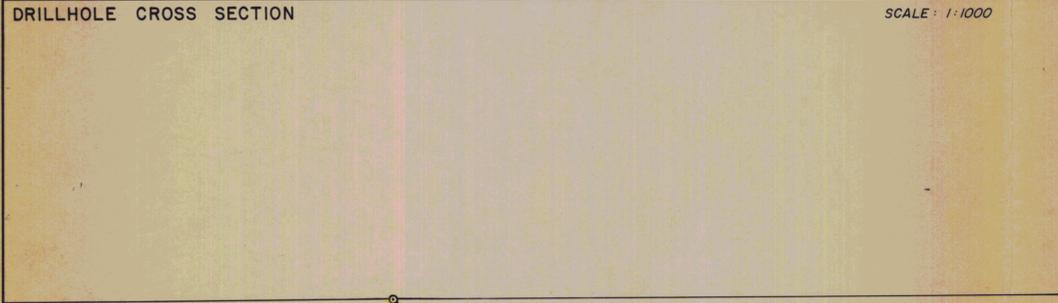
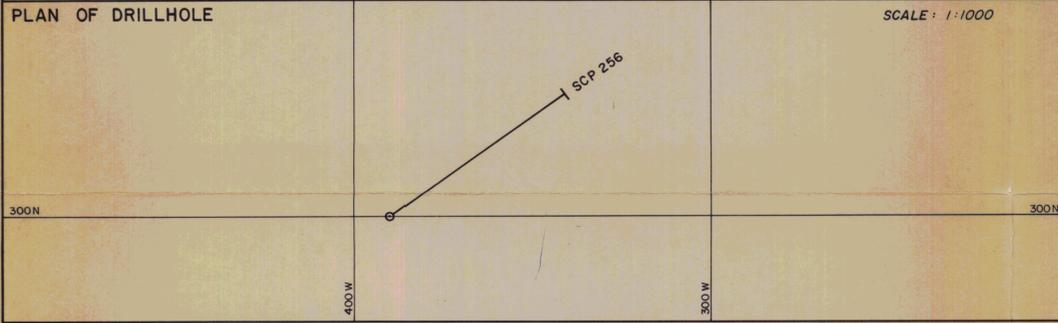
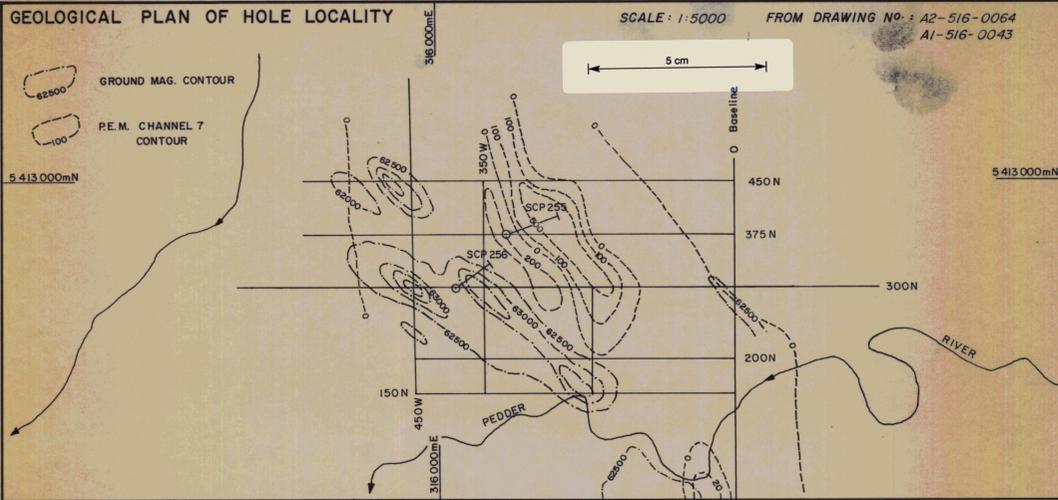
DEPTH	LITHOLOGY	DEPTH	MINERALISATION AND SIGNIFICANT ASSAYS
0-17.3m	Dune sands.	173-876m	1 to 3% Pyrite as fine grained disseminations, as blebs, as rare syngenetic bands, and associated with rare thin carbonate veins.
17.3-53.2m	Dark grey to black laminated mudstone and siltstone with interbeds of pale grey f.g. quartz sandstone.	876-972m	Up to 5% Pyrite as disseminations and blebs.
53.2-54.4m	Green-grey weakly chloritic massive f.g. quartz wacke.	972-105.4m	2% disseminated Pyrite.
54.4-87.6m	Interbedded grey f.g. quartz sandstone and siltstone with minor mudstone laminae.	105.4-109.3m	2 to 5% disseminated Pyrite.
87.6-90.5m	Laminated black and grey pyritic graphitic mudstone.	109.3-110.0m	1% f.g. disseminated Pyrite.
90.5-94.1m	Pale grey siltstone and fine grained quartz sandstone.		
94.1-97.2m	Laminated black pyritic graphitic mudstone and grey siltstone.		
97.2-105.4m	Interbedded grey quartz sandstone and siltstone.		
105.4-109.3m	Fault zone. Black mudstone with puggy black and grey clay and thick and thin quartz-carbonate veins.		
109.3-110.0m	Interbedded grey siltstone and f.g. quartz sandstone.		

DESIGNED BY: I. Mc D. DATE: Feb. 1984
 AIM OF HOLE: To source test a Crone P.E.M. anomaly, under a shallow cover of stabilised dune sands, in sediments adjacent to a Devonian Granite intrusion.
 NOTES: Target zone based on a 70° West dip to P.E.M. feature.
 LOGGED BY: I. Mc D. DATE: April, 1984.

SAMPLED INTERVAL	SAMPLE NUMBERS	SAMPLE TYPE	ELEMENTS DETERMINED	LAB. METHOD
173-110.0m	61163-61197	chip core.	Cu, Pb, Zn, Fe, Mn, Ag, As, Sb, Sn, W, Au.	A.A.S. X.R.F. Fire Assay.
	61154-61162	whole core	Inductive conductivity measurement.	Scintrex CTU-2.

NOTES: SCALE: As shown Survey: I. Mc D. Revised: REF. No. Date: 24-2-84 Drawn: R. J. R. Checked: A1-516-0065

ELECTROLYTIC ZINC CO. OF ASIA LTD.
PROJECT: SANDY CAPE J.V.E.L.56/80
SPECIFICATIONS AND SUMMARY OF RESULTS
EXPLORATION DIAMOND DRILL HOLE No. SCP 255
 353028
 84-2207



DOWN HOLE INFORMATION

Lithology	Mineral'n	Depth (m)	GEOCHEMISTRY										CORE RECOVERY									
			ppm										%									
			10	20	30	40	50	60	70	80	90	100	10	20	30	40	50	60	70	80	90	100
Dune sands.		0	No core roller bit through sand																			
White and green brecciated, variably argillised and chlorite veined Rhyolite.	3% dis. py.	0-14.6	Disseminated and blebby pyrite throughout, up to 5% but averages 2-3% py.																			
1-2% f.g. dis. py.		14.6-27.4	Brecciated, variably argillised and chloritised rhyolite lava or minor intrusive with chlorite veinlets.																			
5% m-c.g. py.		27.4-37.9	Siltstones, mudstones and quartz sandstones with carb. veins.																			
2% f.g. dis. py.		37.9-47.0	Fault Zone.																			
Altered siltstone and quartz sandstone.	5% f.g. dis. and c.g. blebe Pyrite.	47.0-58.9	Laminated mudstone, siltstone and sandstone.																			
Mudstone with calc. siliceous fragments.	5% m-c.g. dis. py.	58.9-72.4	Fault Zone with quartz veining.																			
Fault Zone, puggy clay sludge with mudstone fragments.		72.4-78.5	Mudstone, siltstone and quartz sandstone.																			
Laminated mudstone, siltstone with f.m.g. dis. and irregular veinlets and bands.	3% Pyrite as f.m.g. dis. and c.g. blebe Pyrite.	78.5-80.8	Fault Zone.																			
Fault Zone, black sludge with mudstone, siltstone and quartz vein fragments.	3-5% m.g. dis. Pyrite.	80.8-84.8	Laminated siltstone, mudstone and quartz sandstone.																			
Mudstone, siltstone and f.g. quartz sandstone.	2-3% dis. py.																					
Fault Zone.																						
Low siltstone, mudstone with f.g. quartz sandstone.	2% m.g. dis. py.																					

SUMMARY OF COMPLETED HOLE

CO-ORDINATES	NORTHING	EASTING	R. L.
LOCAL GRID	300	390W	18m
A.M.G.	5,412,850	316,025	18m

LOCAL GRID: 300N, 390W, 18m
A.M.G.: 5 412 850 m N, 316 025 m E, 18 m

AZIMUTH: 055° A.M.G. DIP: -45° TOTAL DEPTH: 84.8m
COMMENCEMENT DATE: 30-3-84 COMPLETION DATE: 8-4-84

SPECIFICATIONS OF PROPOSED HOLE

CO-ORDINATES	NORTHING	EASTING	R. L.
LOCAL GRID	300N	390W	18m
A.M.G.	5 412 850 m N	316 025 m E	18 m

LOCAL GRID: 300N, 390W, 18m
A.M.G.: 5 412 850 m N, 316 025 m E, 18 m

AZIMUTH: 055° A.M.G. DIP: -45° DESIGNED DEPTH: 110m
ESTIMATED COMMENCEMENT: March, 1984

INTERNAL SURVEY INFORMATION

DEPTH	AZIMUTH	DIP	DEPTH	AZIMUTH	DIP

ANTICIPATED GEOLOGY

DEPTH	LITHOLOGY	DEPTH	NATURE OF TARGET AND ANTICIPATED DEPTH
0-10m	Stabilised dune sands.	30-90m	Magnetite or Pyrrhotite body, depth dependent upon dip of body.
10-110m	Interbedded Siltstones, Mudstones and Quartzites.		

DRILLED GEOLOGY (SUMMARISED)

DEPTH	LITHOLOGY	DEPTH	MINERALISATION AND SIGNIFICANT ASSAYS
0-14.6m	Dune sands, with black pebble horizon at base.	0-84.4m	Disseminated and blebby pyrite throughout, up to 5% but averages 2-3% py.
14.6-27.4m	Brecciated, variably argillised and chloritised rhyolite lava or minor intrusive with chlorite veinlets.		
27.4-37.9m	Siltstones, mudstones and quartz sandstones with carb. veins.		
37.9-47.0m	Fault Zone.		
47.0-58.9m	Laminated mudstone, siltstone and sandstone.		
58.9-72.4m	Fault Zone with quartz veining.		
72.4-78.5m	Mudstone, siltstone and quartz sandstone.		
78.5-80.8m	Fault Zone.		
80.8-84.8m	Laminated siltstone, mudstone and quartz sandstone.		

LOGGED BY: I. Mc D. DATE: April, 1984

SAMPLE DATA

SAMPLED INTERVAL	SAMPLE NUMBERS	SAMPLE TYPE	ELEMENTS DETERMINED	LAB. METHOD
14.6-84.4m	61201-61224	chip	Cu, Pb, Zn, Fe, Mn, Ag, As, Sb, Sn, W, Au.	A.A.S. X.R.F. Fire Assay.

DESIGNED BY: I.R. Mc D. DATE: Feb., 1984

AIM OF HOLE: To test a ground magnetic anomaly under a shallow cover of stabilised dune sands, in sediments, adjacent to a Devonian Granite intrusion.

NOTES: Target based on a vertical ± 10° dip, to magnetic feature.

The higher amplitude anomaly, west of the hole, was not tested because it is a short strike feature. The lower amplitude anomaly was chosen for testing because it extends over several lines.

ELECTROLYTIC ZINC CO. OF ASIA LTD.
PROJECT: SANDY CAPE J.V. E.L. 56/80

SPECIFICATIONS AND SUMMARY OF RESULTS

EXPLORATION DIAMOND DRILL HOLE No. SCP 256

353029 84-2207

SCALE: As shown Survey: I.R. Mc D. Revised:
Reference: Date: 24-2-84 REF. No.
Drawn: R.J.R. Checked: AI-516-0066