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Prospect 600

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PACMINEX PTY. LIMITED

STANLEY REWARD DRILLING - 1978

E.L. 53/70, STANLEY RIVER,

WEST TASMANIA

PMR 97/78

SYDNEY
October, 1978

P.M. MACNAMARA

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215001

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KEYWORDS

TASMANIA	TIN
DIAMOND	COPPER
DRILLING	LEAD
GEOCHEMISTRY	ZINC
MAGNETIC	BISMUTH
EXPLORATION	1978
8SK 55-Ø3	

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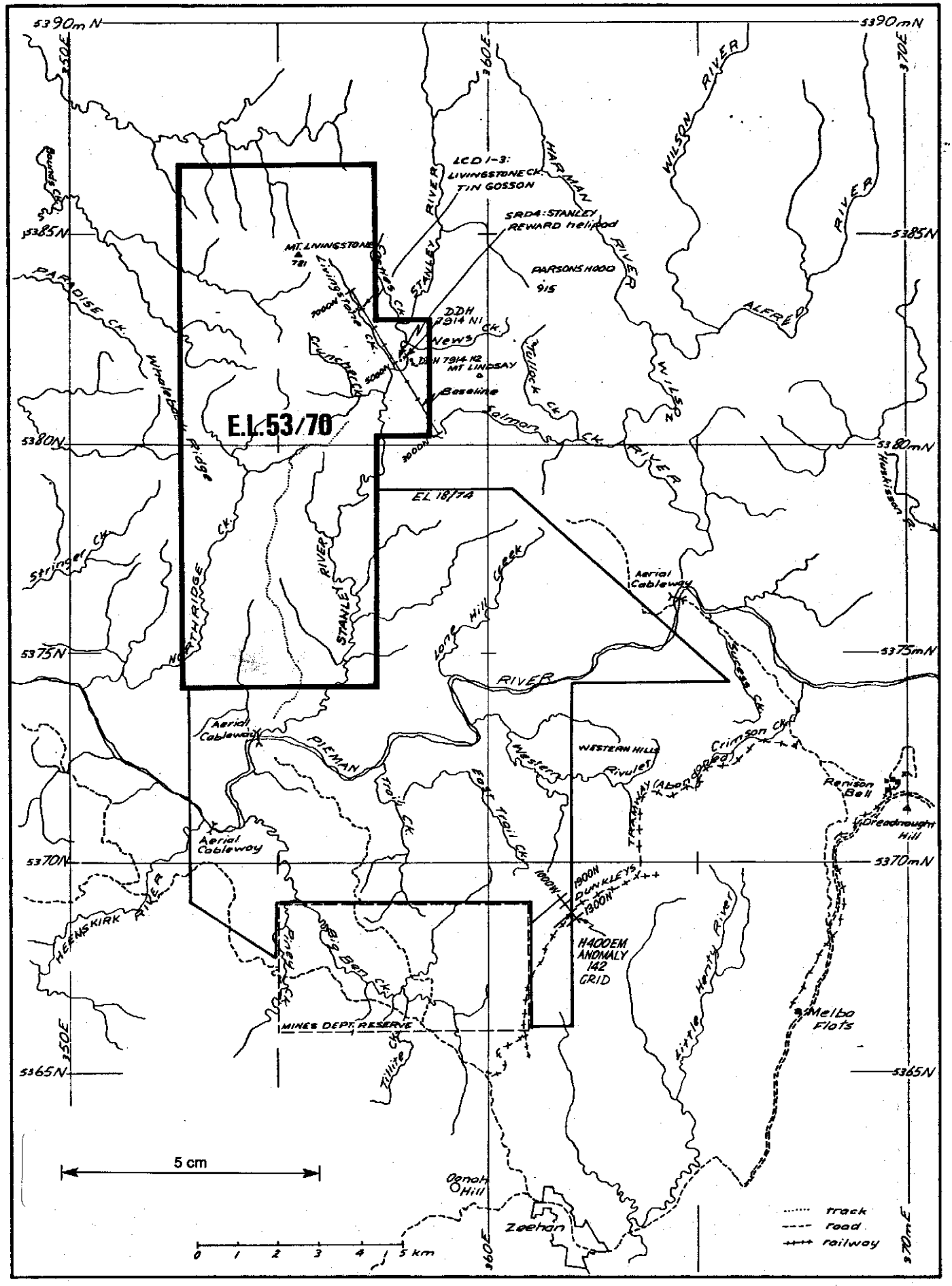

FIG. 1 LOCATION MAP E.L. 53/70 STANLEY REWARD AREA TASMANIA

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1. INTRODUCTION

1.1 Pacminex conducted a programme of ground exploration over E.L. 53/70, Stanley River, west Tasmania in the period January-April, 1978. The major part of the work involved exploration on the Stanley Reward Grid (Figure 1).

All gear and personnel were positioned in the area by jetranger helicopter due to lack of tracks preventing road access.

1.2 Initial work consisted of helipad and drill-pad preparation plus line-cutting in scrub covered areas on the grid. Close-spaced ground magnetic, VLF-EM and soil augering programmes were carried out on new and old surveyed lines. In February, Scintrex Ltd. completed an I.P./resistivity survey over most of the grid. Following the survey, a two-hole diamond drill programme totalling 489 metres of coring was completed in March-April by Associated Diamond Drillers of Zeehan on behalf of Pacminex

1.3 This report deals with the results obtained from the two drill holes (SRD 7 and SRD 8). It covers lithological and magnetic susceptibility logging of drill core and subsequent chemical analyses of split core samples.

1.4 The results of other surveys completed in 1978 will be reported on separately in the near future.

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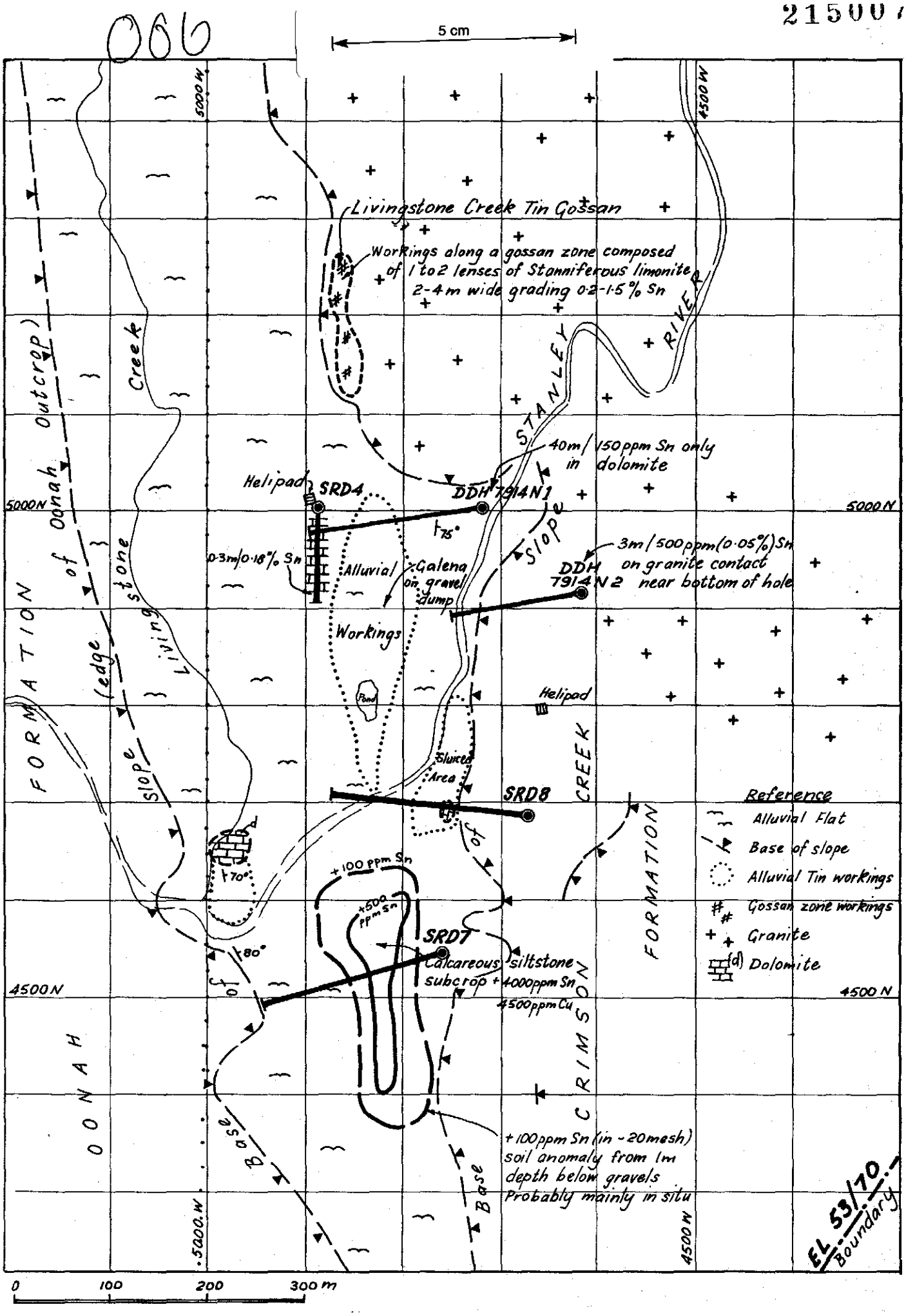

FIG. 2. TIN OCCURRENCES STANLEY REWARD AREA

E. L. 53/70 TASMANIA

2. SUMMARY

2.1 Diamond drill hole SRD 7 was sited to check a tin-copper geochemical anomaly, associated with a magnetic high, between lines 4400N and centred at 4825W. The geochemical anomaly and drill hole location are shown on Figure 2. Core logging data and selected chemical analyses of split core are shown on DWG K553-11.

The best intersection obtained was 5 m of 0.24% Sn from 110 m to 115 m depth, where two 2m sections of 0.3% Sn are separated by 1 m of 0.03% Sn. The 13 m zone 108 m to 121 m depth averages 0.12% Sn. Elsewhere two 4 m sections and one 2 m section of 0.1% Sn occur.

2.2 Diamond drill hole SRD 8 was sited to test an I.P. anomaly occurring in the general vicinity of possible extensions northwards of the main geochemical anomaly shown on Figure 2. Results were disappointing both for grade reasons and because the hole passed into granite at depth. The best intersection was 0.4 m of 0.3% Sn in the dolomite directly in contact with the granite (similar contact mineralisation also occurred in SRD 6). The source of the I.P. anomaly was not obvious in the core.

2.3 The 5 m of 0.24% Sn obtained in SRD 7 apparently represents the geochemical-magnetic feature located previously at the surface (Figure 2). This zone deserves further testing following an evaluation of all geophysical and geochemical data when it becomes available.

3. BACKGROUND

3.1 Prospective stanniferous zones occur in a 100 to 400 m wide, topographically low dolomite horizon on the Stanley Reward grid (Figure 1). The dolomite is covered by gravels 1(?) to 10 m thick which underlie "button grass" and mud flats. The dolomite is bounded to the west by ridges of quartzitic siltstone of the Oonah Quartzite and Slate. To the east, occurs the topographically high and steep slopes of deeply weathered Crimson Creek "Argillite" and to the north, granite.

3.2 Systematic soil auger probing down to 1.5 m depth in 1976 and 1977 indicated a +300 m long tin-copper anomaly beneath a thinner-than-usual section of gravels covering dolomite bedrock. The +500 ppm Sn contour of the anomaly is 25→50 m wide and extends from 4400N to 4600N and is centred about 4825W (Figure 2). High tin-copper values from bedrock material brought up in the roots of a large overturned tree indicated the anomaly was in situ. There are a series of 50 to 200 gamma ground magnetic anomalies developed on lines between 4400N and 4700N in the vicinity of the geochemical anomalies. This data is discussed in Macnamara (1977a and b).

3.3 During planning in late 1977, it was decided that the first hole in the 1978 programme would check the above geochemical-magnetic "high", and would be collared approximately at 4550N/4775W if ground conditions permitted. Due to the short field season, drill pad preparation and any line cutting had to be done together in January.

The I.P. survey was timed for February and drilling for March-April, 1978. The position and course of the first hole were controlled by the magnetic-geochemical target. The target and position of the second hole were to be guided by any preliminary I.P. data becoming available in early March as well as by existing geochemical and ground magnetic data.

3.4 During the January site preparation programme allowance was made for the second hole to be sited 100 to 150 m to the north or south of the first hole. At that the southern position - around line 4400N - was preferred, but no I.P. data existed on the zone at the time.

3.5 In March 1978, diamond drill hole SRD 7 was collared at 4544N/4759W and drilled to grid WSW (210°M) at -39° in order to pass through the geochemical-magnetic "high" around 4825W. As planned, it then intersected the top of the Oonah Quartzite and slate in the footwall of the dolomite sequence.

3.6 The second drimond drill hole, SRD 8, was moved from its tentative position 100 m to the south of SRD 7 and positioned to test an I.P. target indicated by preliminary I.P. data supplied by the geophysical contractor. It was collared at 4684N/4675W and drilled grid westwards towards 233°M at -38°.

3.7 Hole locations are shown on DWG K553-10a and Figure 2. Drill sections are shown on DWG's K553-11 and K553-12. Drill logs are attached as Appendices 1 and 2. Chemical analyses of split core by emission spectrography are shown on the logs and also in Appendix 3.

4. RESULTS OF DRILLING

4.1 SRD 7

4.1.1 The results from logging SRD 7 are summarised on DWG K553-11 which shows in section lithology and magnetic susceptibility data plus the results of chemical analyses of split core.

4.1.2 From 0.7 m depth, SRD 7 passed through alluvials and then entered grey then white dolomite. At 228 m it intersected a transitional banded dolomite-shale-siltstone sequence prior to passing into horn-felsed quartzitic siltstone of the upper part of the Oonah Quartzite and Slate.

4.1.3 Between 110-115 m depth, occur two 2 m sections of 0.3% Sn separated by 1 m of 0.03% Sn, which form the highest ten values intersected - 5 m of 0.24% Sn. The 13 m section, 108-121 m, averages 0.12% Sn.

Elsewhere two 4 m sections and one 2 m section of 0.1% Sn occur.

4.1.4 Magnetic susceptibility data on DWG K553-11 indicates that, in general, high tin values occur associated with zones of high magnetic susceptibility, although there is no apparent one-to-one correspondence with the strongest readings.

4.1.5 The strongest zone of mineralisation (108 to 121 m) is notably sulphide bearing and pyrrhotite and pyrite occur in fine bands and "splashes", and as weakly developed thin cross-fracture fillings. The sulphides, however, are not "massive".

The dolomite in this section (108-121 m) is dark grey and white. A distinct, unusual cream colour occurs in patches - possibly some type of alteration or calc-silicate mineral?

A strong sulphide bearing zone in dolomite, 182→201 m, with thin cross-fracture sulphide developed, almost like a "crackle breccia" in places, was disappointing in grade with only 2 m of 0.03% Sn at 180→182 m depth.

4.2 SRD 8

4.2.1 DDH SRD 8 was sited to test and I.P. anomaly trending approximately grid NNE (~340°M) through 4700N/4800W. Bedrock geochemical response in this area is mostly masked by deep gravel cover. However, the I.P. anomaly appeared to be more or less along strike from geochemically anomalous zones detected under shallow gravel cover to the south. In addition, the area had been worked in places in the past to a shallow depth for detrital tin (which may have been either residual or alluvial in origin).

4.2.2 The hole was collared to the east of the I.P. anomaly in order to check the upper section of the dolomite horizon, and hopefully, part at least of the magnetic "Marker Sequence" (Newnham, 1976).

4.2.3 From 0→32 m the hole penetrated a dark greenish-black gritty and silty rock thought to be a hornfelsed greywacke (or a tuff?). It carried a distinctive dark blue-green mica (chlorite?). Core recovery was poor and consisted mainly of sludge, with minor sticks of core. Sludge collected from 0 to 32 m as one sample analysed 0.03% Sn but the pieces of core recovered in this section contained 3 ppm Sn only.

/....

The recovered sections of core gave medium to moderately high magnetic susceptibility readings, but the overall pattern is naturally influenced by the low recoveries.

4.2.4 From 32→62 m depth, the hole passed through a mixed (transitional?) zone containing bands and beds of intermixed dolomite, greywacke and siltstone. Magnetic susceptibility readings are generally fairly low, as are tin values.

4.2.5 From 62→185.9 m, the hole intersected dolomite, but no massive or strong sulphide mineralisation was encountered. The largest intersection was 5 m of 0.03% Sn at 169.5→174.5 m depth.

At 185.9 m, the hole passed into granite. The direct contact zone of dolomite 185.5→185.9 m was considerably altered and contained 0.3% Sn over its 0.4 m length.

4.2.6 Tin values in the granite are low.

5. REFERENCES

(1) MACNAMARA, P.M.

1977(a) : Report on Exploration 1975-1977 (Drilling, Geochemical and Magnetic Surveys), Stanley Reward, E.L. 53/70. PMX REPORT PMR 153/77.

1977(b) : Stanley Reward, E.L. 53/70, Grid Soil Geo-Chemistry 1975-1977. PMC REPORT PMR 168/77.

(2) NEWNHAM, L.A.

1975 : A Lower Cambrian Marker Sequence in the Renison-Mt. Lindsay Area, Lower Palaeozoic Geology of West Tasmania.
SYMPOSIUM, QUEENSTOWN, 1975 (Geol. Soc. Aust.)

PMM/SS
6/10/78

APPENDIX I

DIAMOND DRILL HOLE LOG SRD 7

AREA STANLEY RIVER — -30 — 150578 — 110319 — ADD — STATE TAS — LOCATION EL 53 70 — 270 M — M REITER

N 6544 — 274 — NUMBER 7914N3 — PAGE 1 of 12

W 415900 — DEPTH 233.00 — DRILL TYPE DC — HOLE SIZE HQ to 7m, NQ to 11.15, BQ to 259

LOGGED BY F MACNAMARA — & ASSAY TYPE

SUMMARY DESCRIPTION

0 **0-7m ALLUVIUM/SLOPE WASH - KHAKI CLAY** Crimson Creek Argillite type clay

19

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7-51m: GREY DOLOMITE, massive, medium grey colour, patches white dolomite fr. flakes calc-silicate/FeMg porphyroblasts only often altered to chlorite-serpentine, occasional asbestos on fractures
No strong sulphide mineralization - occasional weak pyrite

65

10

Weathering/Limonite:
0-7m limonitic clay
7-14.5 limonite on all fractures
14.5-32m limonite on some fractures and some inter-fracture dolomite leached

68

15

Lithology/Hornfelsing
The dolomite is fine grained (< 1mm) generally, medium grey colour with some white patches. Patches of FeMg porphyroblasts occur in places as bands, veins, zones etc. comprising 10% (up to 30%) of core in the zones 7-18.5m, 23.5-25.5m, 35.5-38.5m and sporadically elsewhere.
The dark FeMgs are altered in places to chlorite - serpentine occasional white fibrous asbestos lines some fractures

100

20

START DEPTH	FINISH DEPTH		SAMPLE NUMBER 7914N3	Sn	Cu	Zn	Pb	Bi	Ag	W
0.00	1.00	7.0	501	<1	30	50	<1	<1	<1	<2
1.00	11.15	4.15	502	<1	10	<5	<1	<1	<1	<2
11.15	18.00	6.85	504	<1	3	100	<1	<1	<1	<2
18.00	24.00	6.0	507	<1	10	<20	<1	<1	<1	<2

ASSAY (PPM)

5 cm

PA NEX PTY LTD – DETAILED DRILL LOG

AREA 0 | PROJECT NUMBER | DATE STARTED | DATE COMPLETED | CONTRACTOR | DRILLER | STATE | LOCATION | DIP | BEARING | CO-ORDINATES N / E | COLLAR RL | DEPTH | AREA OF INFLUENCE | DRILL TYPE | LOGGED BY | HOLE NUMBER SRD7 | PAGE 2 OF 12 | HOLE SIZE TO / TO / TO | & ASSAY TYPE

SUMMARY DESCRIPTION

Depth scale: 20 – 25 – 30 – 35 – 40 m; core recovery: 100, 96, 95, 100

7–51m (continued) —

Fracturing
- 7–14.5m: 2–12 fracture/metre
- 14.5–51m: occasional fractures, mainly drill induced. Incipient closed ("healed") fractures 3–12 per m.

Bedding/Banding angle to core axis – bedding mainly defined by crenulated black/green (chloritic) laminae and bands.

7.1m/30–50°, 8m/30°, 8.5/30–50°, 9/25–60°, 9.5/30°, 15m/45°, 15.3/25°, 16m/30°, 16.5/15–20°, 16.7m/25°, 23.5/crenulated 0°, 24.5m/crenulated 0–15°, 24.8–25.3m/0–10° crenulated, 25.4m/30°, 25.7m/15°, 31.5m/20°, 34.5/35°, 35.2/30°, 35.4/20°, 35.8/?15°, 37–38.5m/crenulation "breccia"/ 30–60°, 40.3m/0°–20°–0°, 43.2/30°, 44–44.5m/10–40°, crenulated; 44.6–44.7m/ 30–40°

START DEPTH	FINISH DEPTH		SAMPLE NUMBER	Sn	Cu	Zn	Pb	Bi	Ag	W
24.00	30.00	6.0	510	<1	10	300	<1	<1	<1	10
30.00	36.00	6.0	513	<1	100	<20	<1	<1	<1	<2
36.00	42.00	6.0	516	<1	10	<20	<1	<1	<1	<2

5 cm

PAGE 3 of 12

SUMMARY DESCRIPTION	START DEPTH	FINISH DEPTH		SAMPLE NUMBER 7914N3/	Sn	Cu	Zn	Pb	Bi	Ag	W
40											
	4200	4800	6 0	519	<1	3	<20	<1	<1	<1	<2
45											
	4800	5400	6 0	522	<1	3	<20	<1	<1	<1	<2
50											
	5400	6000	6 0	525	<1	10	<20	<1	<1	<1	<2
55											
60											

51-228m : WHITE DOLOMITE mainly with some grey dolomite sections and patches with 1-2mm FeMg porphyroblasts.

Lithology

51-78.5m white dolomite with dark grey to black bands and irregular clumps of hornfels FeMgs forming 5-10% of the rock in places. Minor serpentinization in places.

Some fine sulphide (pyrite ?) bands, especially 70-72m, but not strong.

5 cm

SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG
78.5 – 228m White massive dolomite with darker sections of core enriched in sulphides (pyrite, pyrrhotite) and (?) magnetite			

Sulphides (78.5 – 228m) –

Weak sulphide at least occurs sporadically throughout but is more strongly developed and forms darker sections in the following zones:–

100 – 145 m

151.5 – 215m, with more strongly sulphidic sections at:–

(i) 106 – 108m: sulphides in bands and weakly developed cross-fractures

(ii) 112.7 – 118.7m: fine bands, splashes, weak cross-fractures (x-frs) forming a cream and dark grey and white dolomitic section. (cream = Ca-Si minerals?)
Magnetic Pyrrhotite 115 – 117, disseminated

(iii) 125.5 – 127m, and moderate to weak sulphide to 140m.

(iv) 140 – 143.4m; and moderate to 146m.

(v) brecciated zone 153.3 – 161 composed of mainly dolomite breccia fragments and matrix/cement with sulphides especially 154.5 – 156, 157 – 157.4

(vi) 168.5 – 179m: Sulphide bands, some fracture sulphide.

(vii) 182 – 201 m: strong sulphide, especially thin x-fractures ("crackle breccia") in zone 184.5 – 189, weaker 189 – 192m (possibly associated with breccia zone 179.5 – 182.3 which encloses a limonitic zone (shear?) 181.2 – 182.3 – a zone of core loss).

START DEPTH	FINISH DEPTH		SAMPLE NUMBER 79/4N3/	Sn	Cu	Zn	Pb	Bi	Ag	W
6000	6600	60	528	<1	100	<20	<1	<1	<1	<2
6600	7000	40	531	1000	100	<20	<1	<1	<1	<2
7000	7600	60	533	<1	30	30	<1	<1	<1	<2
7600	8200	60	536	<1	30	<20	<1	<1	<1	<2

5 cm

AREA | PROJECT NUMBER | DATE STARTED | DATES | COLLAR | AREA OF | HOLE NUMBER | PAGE 5 OF 12
STATE | LOCATION | DIP | DATE COMPLETED | N | RL | INFLUENCE | DRILL TYPE | HOLE SIZE TO
BEARING | CONTRACTOR | E | DEPTH | & TO
DRILLER | GEOLOGY | ASSAY TYPE TO

P19

SUMMARY DESCRIPTION | ROCK TYPE | S.G. | VISUAL LOG

(VIII) 206.8 – 208.6m : moderate sulphides in bands.

(IX) 215 – 221m : weak sulphides only in white dolomite, then pale green (FeMg) speckled white dolomite to 228m.

Weathering / limonite (51 – 228m) :–
limonite zone of yellow brown colour to dolomite breccia, stronger in matrix, at 181.3 – 182.2, 168.5 – 168.6 on fracture 35° to CA.
red "hematitic" paint on fractures and in adjacent dolomite (old reduced limonite?) at 86.9, 94.7 – 94.9, 100.1, 100.8, 101.2, 102.8, 103.7 – 103.8, 104.8, 110.0, 111.9 – 112.6, sporadically 118 – 138. Some fractures have pyrite with a red "hematitic" selvage.

5 cm

START DEPTH	FINISH DEPTH	SAMPLE NUMBER 7914N5	ACCEPTED ASSAY (PPM) Sn	Cu	Zn	Pb	Bi	Ag	W
82.00	86.00	5391	3	34	<2.0	<1	<1	<1	<2
86.00	90.00	5401	1	3	<2.0	<1	<1	<1	<2
90.00	96.00	5403	<1	5	<2.0	<1	<1	<1	<2
96.00	102.00	5406	<1	1	<2.0	<1	<1	<1	<2

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HOLE SIZE ____ TO ____ & ASSAY TYPE ____ TO ____

Fracturing (51-228m):-

Most fractures are probably incipient only in the natural state, at < 1 per metre; drilling has induced a greater frequency in the core. The following zones of close fracturing and/or brecciation occur:-

(i) 52.6 - 52.8m broken zone - 30-40° fractures (frs) lined with white asbestos at 0.05m intervals.

(ii) 89.4 - 89.5 m 50° frs - minor breccia

(iii) 153.3 - 161 rehealed dolomite breccia with fractures (frs.) 20-30° to CA. Pyrite in part secondary, but most Pyrite bands/zones are x-cut by brecciation. Slickensides on 30° frs plunge 60° on fr. surface to CA/fr plane long axis.

(iv) 175 - 175.15 broken zone with chloritic-Pyritic matrix; frs 40-60° to CA.

(v) 179 - 193.5m strongly x-fractured zone, rehealed, sulphide in x-frs. Brecciated in places especially 184.8 - 188 with breccia "bands" 20-40° to CA. Breccia strong, [illegible] to CA 180-182.7m; 184.5 - 188 at 20° to CA

(vi) 197 - 201 x-fractured, pyrite on frs.

(vii) 206.2 - 206.5 slickensided zone 0-10° frs and along 40° bedding.

(viii) 209.5 - 214.5m broken zone, esp. 211.2 - 211.8; rehealed x-fractures 211.8 - 214.5; frs generally at a low angle (0-30°) to CA. Slickenside 0°/211m.

(ix) 220 - 221m broken zone in 3-10cm pieces

START DEPTH	FINISH DEPTH		SAMPLE NUMBER 7914NS/	Sn	Cu	Zn	Pb	Bi	Ag	W
102.00	108.00	6.0	549	<1	30	<20	<1	<1	<1	<2
108.00	110.00	2.0	552	300	30	<20	<1	<1	<1	10
110.00	112.00	2.0	553	3000	30	<20	<1	<1	<1	150
112.00	113.00	1.0	554	300	100	<20	3	<1	<1	<2
113.00	115.00	2.0	555	3000	300	<20	30	1	<1	<2
115.00	117.00	2.0	556	1000	100	50	<1	<1	<1	<2
117.00	119.00	2.0	557	100	100	100	<1	<1	<1	<2
119.00	121.00	2.0	558	300	30	<20	<1	<1	<1	<2

5 cm

020 021

AREA · PROJECT NUMBER · DATE STARTED · DATE COMPLETED · CONTRACTOR · DRILLER · STATE · LOCATION · DIP · BEARING · DEPTH · DRILL TYPE · LOGGED BY · HOLE SIZE ___ TO ___ · & ___ TO ___ · ASSAY TYPE ___ TO ___

SUMMARY DESCRIPTION

Bedding (51-239m) :-
Bedding to core axis (CA) :
52m/40°; 55m/20°; 56-62m/crenulated,
0-30°; 74.5-78.5m/crenulated 15°;
79.6m/40°; 79.8-80.3/crenulated 0°;
83.2m/40°; 83.4-83.6/15°; 88/35°;
88.7/20°; 89.6/20°; 90.5/25°; 91/30°,
91.3m/15°; 92.3/15°; 93/15°, 93.6/10°;
94m/20°; 94.5m/0-20° crenulated,
96/0-15° crenulated, 97/10°, 98m/0°,
100m/0-10° crenulated; 100.8m/10-20° crenulated,
102/25°, 102.5/15°; 103/20°; 104/0-15° crenulated,
105/20°, 106/0-20° crenulated, 107m/20°
111/25°, 111.5/30°; 112.5/35°; 113/30°,
113.5m/5°; 114/0-25° crenulated,
115m/0-15° crenulated; 116m/20°,
117/20°; 118m/30°; 118.5m/30°,
119.3/20°; 123m/25°; 123.5m/25°;
124m/0-30° crenulated; 124.5m/0-20° crenulated
125.3m/15°; 126/35°; 128/40-50°?
129/25°, 130/20°; 132m/40-50°?; 132.2/60°
132.4m/30°; 133/40°; 133.5/65°; 133.8/40°;
134/45°, 134.3/45°; 135.2/40°; 135.5/45°;
136/50°; 136.6/0-50° crenulated; 137m/50°,
138/50°; 138.5/50°; 139.3/50°; 139.6m/55°;
140.3/55°; 141m/55°; 142/55°; 142.3/50°,
143/55°; 143.7/55°; 145/55°; 146/55°,
148m/55°; 151/60°; 152/60°; 153.3/65°;
161/65°; 161.2/65°?; 163m/55°;
164/55°; 165/50°?; 165.7m/55°; 166.8/55°;
167.7/55°; 168/60°; 169/30°; 170m/45°,
171/60°; 172/50°; 173/60°; 174/60°;
175/65°; 175.7/50°; 177/55°; 178/60°;
178.7/60°; 180/70°; 183/60°; 184/60°;
184.5/65°; 189.2/60°; 191.3/65°,
191.5m/60°; 191.8/55°; 192m/40°,
192.3m/50°; 193.2m/55°; 194.2m/55°;
194.5m/60°; 195m/45°; 196m/50°;
197.3m/50°; 198.3m/50°; 200m/50°;
200.5/35°; 201m/55°; 202/40°
202.5/35°; 202.9/40°; 204m/45°;
205m/50°; 205.2m/30°; 206.1m/45°;

(cont'd →)

START DEPTH	FINISH DEPTH		SAMPLE NUMBER 7914N3/	Sn	Cu	Zn	Pb	Bi	Ag	W
121.00	123.00	2.0	559	3	30	<20	<1	<1	<1	5
12[illegible].00	125.00	2.0	560	3	30	<20	<1	<1	<1	5
125.00	127.00	2.0	561	300	3	30	<1	<1	<1	<2
127.00	129.00	2.0	562	1000	30	<20	<1	<1	<1	<2
12[illegible]	131.00	2.0	563	30	3	<20	<1	<1	<1	<2
131.00	135.00	4.0	564	3	30	<20	<1	<1	<1	<2
135.00	139.00	4.0	566	1	30	<20	<1	<1	<1	<2
139.00	140.00	1.0	568	10	30	<20	<1	<1	<1	<2

5 cm

PACMINEX PTY. LTD. – DETAILED DRILL LOG PACMINEX

AREA D | PROJECT NUMBER | DATE STARTED | COORDINATES N | COLLAR RL | AREA OF INFLUENCE | HOLE NUMBER 1

STATE | LOCATION | DIP | BEARING | DATE COMPLETED | CONTRACTOR | DRILLER | E | LOGGED BY | DEPTH | DRILL TYPE

PAGE 8 OF 12

HOLE SIZE ____ TO ____

& ____ TO ____

ASSAY TYPE ____ TO ____

215020

5 cm

SUMMARY DESCRIPTION	ROCK TYPE	S.G	VISUAL LOG	START DEPTH	FINISH DEPTH	SAMPLE NUMBER 79UN5	ACCEPTED ASSAY (P.P.M) Sn	Cu	Zn	Pb	Bi	Ag	W
Bedding (continued) :–													
207m/ 50° to C.A; 208m/55° to C.A (core axis),													
208.6m/ 45°; 209m/55°; 210/35°,													
216.7m/ 45°; 217.7/50°; 218m/55°,													
219/60°; 221/45°; 221.5/45°; 222/45°;													
223.7m/ 50°; 224.2/65°; 225.8/55°;													
226/55°; 226.3/55°; 226.8/56°;													
227.1m/ 60°; 227.6/55°; 228.1/45°;													
228.5m/ 45°; 229m/50°; 230.3/40°													
banding in clayey(altered) shale;													
230.7m/ 45°; 230.8m/50°; 231.4m/55°;													
232/60°; 232.5m/65°; 233.1m/65°													
233.6m/65°; 233.8m/65°; 234.2/65°;													
234.8/70°; 234.9/60°; 235m/65°;													
235.8/65°; 236.1m/65°; 236.7m/60°;													
237m/65°; 237.5m/65°; 238m/60°.													

AREA C | PROJECT NUMBER | DATE STARTED | DATE COMPLETED | CONTRACTOR | DRILLER | COORDINATES N E | GRID | DEPTH | AREA OF REFERENCE | DRILL TYPE DC | HOLE NUMBER 79WNS1 | PAGE 9 OF 12 | HOLE SIZE | TO | & | TO | ASSAY TYPE | TO | LOGGED BY | STATE | LOCATION | DIP | BEARING

SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	START DEPTH	FINISH DEPTH	SAMPLE NUMBER 79WNS1	ACCEPTED ASSAY (PPM) Sn	Cu	Zn	Pb	Bi	Ag	W
-160				1600	1604	5171	1	5		<1	<1	<1	<2
98													
-165				1644	1680	5181	<1	1		1	<1	<1	<2
100													
100 -170				1680	1720	5185	1	30		1	<1	<1	<2
100 -175				1720	1764	5185	<1	100		1	<1	<1	<2
100				1764	1804	5187	30	100		3	<1	<1	<2
-180													
12													

5 cm

2150024

AREA D | PROJECT NUMBER | DATE STARTED | COORDINATES N | COLLAR RL | AREA OF INFLUENCE | HOLE NUMBER 79 WN 5 1

STATE | LOCATION | DIP | DATE COMPLETED | E | DEPTH | DRILL TYPE DC | PAGE 10 OF 12

BEARING | CONTRACTOR | HOLE SIZE TO

DRILLER | LOGGED BY | & ASSAY TYPE TO

024

% Core recovery	Metres	SUMMARY DESCRIPTION	ROCK TYPE	SG	VISUAL LOG	START DEPTH	FINISH DEPTH	SAMPLE NUMBER 79WN3/	ACCEPTED ASSAY (PPM) Sn	Cu	Zn	Pb	Ba	Ag	W
72	180					1804	1820	589	30	30		<1	<1	<1	10
100						1820	1840	590	10	30		<1	<1	<1	<2
						1840	1860	591	10	10		<1	<1	<1	
	185														
100						1860	1920	593	10	10		<1	<1	<1	
	190														
100						1920	1980	595	30	10		<1	<1	<1	
	195														
100						1980	2000	598	<1	10		<1	<1	<1	
	200														

5 cm

2150295

AREA 0 | PROJECT NUMBER | DATE STARTED | DATE COMPLETED | CONTRACTOR | DRILLER | COORDINATES N E | COLLAR RL | DEPTH | AREA OF INFLUENCE | DRILL TYPE DC | HOLE NUMBER | PAGE 11 OF 12

STATE | LOCATION | DIP | BEARING | LOGGED BY | HOLE SIZE & ASSAY TYPE TO

SUMMARY DESCRIPTION | ROCK TYPE | S.G. | VISUAL LOG

Depth (metres): 200, 205, 210, 215, 220

% core recovery: 100, 100, 90, 98, 100

5 cm

START DEPTH	FINISH DEPTH	METRES	SAMPLE NUMBER 7914NB/	Sn	Cu	Zn	Pb	Bi	Ag	W
200.00	204.00	4.0	599	1	1		<1	<1	<1	
204.00	[illegible]	4.0	601	1000	30		<1	<1	<1	
208.00	212.00	4.0	603	1	1.0		<1	<1	<1	
212.00	216.00	4.0	605	1.0	1.0		<1	<1	<1	
216.00	220.00	4.0	607	<1	1.0		<1	<1	<1	

ACCEPTED ASSAY (PPM)

025

AREA 0 | PROJECT NUMBER | DATE STARTED | CO-ORDINATES N | COLLAR RL | AREA OF INFLUENCE | HOLE NUMBER SRD7 | PAGE 12 OF 12

STATE | LOCATION | DIP | BEARING | DATE COMPLETED | CONTRACTOR | DRILLER | E | DEPTH | LOGGED BY | DRILL TYPE DC | HOLE SIZE | TO 239 | ASSAY TYPE

SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL ORE	START DEPTH	FINISH DEPTH	SAMPLE NUMBER 7914NS	ACCEPTED ASSAY (PPM) Sn	Cu	Zn	Pb	Bi	Ag	W
228-233.8m: TRANSITIONAL DOLOMITE-PALE SHALE-DARK SILTSTONE; hornfels, sheared // bedding				228.00	228.40	4.0	6.09	<1	10		<1	<1	<1
228-228.35: pale green, greasy sheared clay (? shale); sheared 90° to CA.				228.40	229.00	2.0	6.11	<1	1		<1	<1	<1
228.35-229.45m: dark grey to black dolomite with white mottling; crudely bedded.				229.00	229.80	2.0	6.12	<1	1		<1	<1	<1
229.45-232.85m: white clayey shales with green chlorite-serpentine clay laminae interbanded with black hornfelsed dolosiltstone bands and minor dark grey dolomite. Oolites in both white and dark sections. Trace sulphides. brecciated 232-232.!				229.80	230.00	2.0	6.13	<1	3		<1	<1	<1
232.85-233.8m: interbands of dark grey dolomite - hornfelsed brown (? biotitized) quartzitic siltstone (? Ns) - pale green clay shale.				230.00	232.00	2.0	6.14	<1	1		<1	<1	<1
Sulphides (228-233.8m): minor pyrite only.				232.00	234.00	2.0	6.15	<1	10		<1	<1	<1
233.8-239.0m: TOP OF OONAH Quartzitic Siltstone: hornfelsed dark grey and brown (biotitized) banded quartzitic siltstone - top of Oonah Quartzite and Slate? Still in a transitional zone? One elliptical fragment of (?) porphyritic felsite at 237.3m (volcanic?).				234.00	236.00	2.0	6.16	<1	50	<20	<1	1	<1
				236.00	238.00	2.0	6.17	10	100	<20	1	1	1
Fractures (233.5-239.0m): 0.02-0.1m apart (20-30 frs/m) Sulphides as minor pyritic bands.				238.00	239.00	1.0	6.18	10	100	<20	<1	1	<1
END OF HOLE AT 239m.													

INCLINATIONS: 0m (collar) / -39° / 210°M; 17m / -37½ / 206°M; 69m / -39° / 211°M; 135m / -38½ / 209°M; 195m / -38° / 209°M; 235m / -37° / 210°M (Eastman Single Shot Instrument).

5 cm

21502?

APPENDIX II

DIAMOND DRILL HOLE LOG SRD 8

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

AREA: STANLEY RIVER | PROJECT NUMBER: 600 | DIP: -38 | BEARING: 233M
STATE: TAS | LOCATION: EL 53/70
DATE STARTED: 18/03/78 | DATE COMPLETED: 07/04/78 | CONTRACTOR: A.D.D. | DRILLER: M. REITER
CO-ORDINATES N: 4684ØØ | W: 4675ØØ
ASSUME HELIPAD 5000N/4900W IS RL 230m
COLLAR R.L.: 226 | DEPTH:
AREA OF INFLUENCE:
DRILL TYPE: DC
LOGGED BY: P. MACNAMARA
HOLE NUMBER: SRD8 (7914N4/1)
PAGE 1 OF 13
HOLE SIZE: Sludge TO 32m & NQ TO 67.8m
ASSAY TYPE: BQ TO 250m EMISSION SPEC.

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4/	MIN. TYPE	ACCEPTED ASSAY (P.P.M) Sn	Cu	Zn	Pb	Bi	Ag	W
	0	0-32m: sludge only — no core.					Ø.ØØ	1.3Ø.Ø	1.3	6125		3	1.Ø.Ø	3.Ø.Ø	<1	1	<1	
		0-1m: dk. brn organic soil.					Ø.ØØ	3.2.Ø		6173		3.Ø.Ø	3.Ø.Ø	3.Ø.Ø	<1	3	1	
		1-32m: dk. grn-black micaceous "sandy" soil. Mica is a lustreous, bright green-blue colour. Weathers quickly on exposure (to limonite) = chlorite? Tuff or greywacke? sst, possibly ± $CO_3^=$					(Sludge)											
		(0-13m ? dk. grn ? g/wacke sst and shale? pale grey clay 12.7-12.8m ± "azurite-blue" spots (Cu?), hard lumps of ? Ca-Si mineral at 13m)																
15.3	5																	
		Fracturing:-																
		32-37m: Core 0.03-0.25m sticks, 8-12 frs/m.																
		37-47m - Core 0.02-0.05m sticks, very broken.																
		47-50: Core 0.02-0.7m sticks, 2-12 frs/m.																
		50-57.4m: 0.02-0.2m sticks, 5-30 frs/m.																
		57.4-59.4: 5 frs/m																
	10	59.4-66.7: 0.01-0.1m sticks, 20-30 frs/m.																
		66.7-74.5m: 0.02-0.15m, 10-20 frs/m.																
		74.5-89.5m: 3-6 frs/m.																
		89.5-91.5m: ? rehealed breccia?, weakly limonitic slight shearing → 10 fr/m: 1-2 mm brown clay lined fractures 0-5° to C.A. on 2 fractures.																
		91.5-136.5m: 4-7 frs/m					1.3Ø.Ø	2.3Ø.Ø	1.Ø.	6262		3	1.Ø.Ø	3.ØØ	<1	1	<1	
		136.5-141.5m 7-10 frs/m																
		141.5-149.5m 3-4 frs/m																
		149.5-149.8 limonitic dolomite, fractured.																
20	15	149.8-154.4 1-2 frs/m																
		154.4-158.6 5-9 frs/m - a rehealed breccia zone infilled ± green clay																
		154.4-156.5m and rehealed fractures elsewhere. limonitic 155.2-158.6m, especially strong 155.2-156.5m.																
43.3		158.6-185m: 1-2 fr/m																
		185-185.8m 10-20 frs/m																
	20	185.8-250m = granite <0.5-3 frs/m.																

215029

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

029

AREA: OSTANLEY RIVER

PROJECT NUMBER: 660

DIP:

BEARING:

STATE: TAS

LOCATION: EL 53/70

DATE STARTED:

DATE COMPLETED:

CONTRACTOR:

DRILLER:

CO-ORDINATES N: 468400

W/E: 467500

COLLAR R.L.: 226?

DEPTH:

LOGGED BY:

AREA OF INFLUENCE:

DRILL TYPE: DC

HOLE NUMBER: SRD8 791/4N4 1

PAGE 2 OF 13

HOLE SIZE & ASSAY TYPE: Sludge TO 32m; NQ TO 67.8m; BQ TO 250m

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 791/4N4/	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag	W
	20																	
40																		
							2,300	3,200	9.	6,27		3	100	3,00	<1	1	<1	
56.6	25																	
30																		
	30																	
16.6																		
		32–62.3m: hybrid calc-silicate, banded ?greywacke/tuff? bands of grey, impure dolomite ± green black Ca-Si xals. Bedding in places, but very irregular.					3,200	3,700	5.	6,28		1	10		<1	3	<1	
		Weathering :–																
32	35	32–47 – Some strong impregnated limonite zones some ± clay from weathering.																
		47–68 : limonite on some fractures																
		68–159 occasional limonite stained zones																
		plus :– 89–92: some staining and leaching of dolomite					3,700	3,815	1.5	6,29		1	3.0	30	1	1	<1	
10																		
100		32–37: interbanded grey dolomite ± dark grey to black (?) g/wacke S/st, hornfelsed ± irregular dk grn black chlorite on fractures																
		37–47m: broken dk brn to black limonite hornfels and calc-S/st.																
0	40																	
		Bedding – see page 4																

215030

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

SRD8

030

AREA: STANLEY RIVER | PROJECT NUMBER: 600 | DATE STARTED | DATE COMPLETED | CONTRACTOR | DRILLER | CO-ORDINATES N: 46840 W/E: 46750 | COLLAR R.L.: 226? | DEPTH | AREA OF INFLUENCE | DRILL TYPE | HOLE NUMBER: 7914W4 1

STATE: TAS | LOCATION: EL53/70 | DIP: -38 | BEARING: 233M | LOGGED BY

PAGE 3 OF 13

HOLE SIZE Sludge TO 32
& NQ TO 67.8m
ASSAY TYPE BQ TO 250m

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914W4	SAMPLE TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
0	40	41.5 – 46.5m : dark red brown biotitic horntels Sh, slst, ? greywacke and breccia in places; Possibly some Ca-Si.					41.5	47.0	5.5	630		<1	30	30	<1	<1	<1
36.6																	
43.3	45	46.5 – 53.5m : impure (slst?) chloritic dolomite with dk. brn. grey silty dolomite 48.5–48.9m.					47.0	53.5	6.5	631		<1	10	<20	<1	<1	<1
70	50																
13.3																	
0	55																
86.6		56.5–59.5m dk brn. green chloritic impure dolomite ; d.green Ca-Si minerals strongly developed. Pyrite ± pyrrhotite 56.5 – 58.0m and minor to 59m.					56.5	59.5	3.0	632		1	100	<20	<1	10	<1
		59.5 – 62.3m : dolomite with dark green "chlorite"					59.5	62.5	3.0	633		1	30	<20	<1	<1	<1
63.3	60	broken clayey zones (grey, cream and green silty clay – Sheared?) 59.6 – 66.7m.															

21503

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

AREA 0 | PROJECT NUMBER | DATE STARTED | CO-ORDINATES N | COLLAR R.L. | AREA OF INFLUENCE | HOLE NUMBER SRD8

STATE | LOCATION | DIP | BEARING | DATE COMPLETED | CONTRACTOR | DRILLER | E | DEPTH | LOGGED BY | DRILL TYPE

PAGE 4 OF 13

HOLE SIZE ____ TO ____

& ____ TO ____

ASSAY TYPE ____ TO ____

031

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
	60																
63.3		62.3 – 185.9m : DOLOMITE															
		62.3 – 89.0m : dark grey dolomite with f.g. black FeMgs finely disseminated, chloritized 88-89m. Minor sulphide.					62.5	65.5	3.0	634		<1	10		<1	3	3
6.6		broken; grey cream and green silty-clays; Sheared? 59.6 – 66.7 m.															
	65						65.5	67.8	2.3	635		10	10		3	<1	<1
		62.3 – 89.5m dk grey dolomite with irregular patches and bands of green-black chlorite (10%?); crenulated, but mainly parallel banding															
69.5							67.8	74.5	6.7	636		<1	10		1	<1	<1
	100																
		Bedding:- To core Axis (C.A.)															
28.3	70	32m/60°, 35.5m/55°, 36m/75°, 47m/65°; 47.2m/65°, 48.5m/65°, 48.6m/65°, 48.8/50°, 50.2m/30°(?), 56.6m/55°; 56.7m/60°, 57.4m/45°, 57.6/55°. 58.2 – 59.4m/banding 40° (bedding?); 67.4/50° banding; 68m/45-55°, 68.5/50°, 68.7m/50°, 74.5m – 75.5m/65-75°, 75.6m/65°, 76.5m/75°, 76.8m/65°, 77.4/55°, 77.6m/45°, 77.9/40°, 80.3/55°, 81.3m/60°?, 82m/65°, 82.9/75°, 83.2m/80°,															
63.3							74.5	79.5	5.0	637		30	3		<1	1	<1
	75	83.4/85°, 83.6m/85°, 84.4/70° crenulated; 85/5-70°, 85.5/70°, 86/65°, 86.4/65°, 86.6/65°, 86.8m/65°, 88/55°, 88.2m/65°, 89.4m/60°, 95.7m/45-55° bedding? crenulated? 105.5m/60°, 106.4/60°, 107.4m/65°, 113.4/70°, 114.4 – 116.3m/50° bedding?, 120.6/50° bedding?, 121.5/45° bedding?, 123.2 – 123.5/55° bedding;															
100																	
		132.4m/45° pyrrholitic silty band; 134.7 – 135.2/50-55° bands; 138.9/50°, 143.1/55°, 147m/50° crenulated;															
18.3							79.5	84.5	5.0	638		<1		3	<1	<1	<1
	80	148m/30° crenulated; 148.2m/50°, 148.7m/50°, 149.2m/60°, 149.7m/40° (continued page 8)															

2150 32

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

SRD8 032

AREA	ØSTANLEY RIVER
STATE	TAS
LOCATION	EL53/70
PROJECT NUMBER	660
DIP	
BEARING	
DATE STARTED	
DATE COMPLETED	
CONTRACTOR	
DRILLER	
CO-ORDINATES N	
CO-ORDINATES E	
COLLAR R.L.	
DEPTH	
LOGGED BY	
AREA OF INFLUENCE	
DRILL TYPE	
HOLE NUMBER	7914N4 1
PAGE	5 OF 13
HOLE SIZE & ASSAY TYPE	TO / TO / TO

% CORE RECOVERY: 99 (80–85 m); 100 (85–89 m); 87.4 (89–94.5 m); 99 (94.5–99.5 m)

METRES: 80, 85, 90, 95, 100

SUMMARY DESCRIPTION

89 – 158.5m : white dolomite

89.5 – 90.6m : pale pink, slightly limonitic, brecciated zone – rehealed, porous in places. Some brown clay shears and staining 0–5° to core axis.

90.6m – 162m : mainly white dolomite with some minor dark laminae and (5%) green chlorite laminae and patches. Some dark grey dolomite zones.
Very minor pyrite and pyrrhotite only, except 2cm/132.5m at 30° to C.A. of black dolomitic slst band $\bar{c}$ sulphide.

Chloritized section 126 – 164.5m, but elsewhere the dark hornfels minerals are mainly black.

ACCEPTED ASSAY

START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4/	Sn	Cu	Zn	Pb	Bi	Ag
84.5	89.5	5.Ø	639	1	1Ø		1	<1	<1
89.5	94.5	5.Ø	64Ø	1	3		<1	<1	<1
94.5	99.5	5.Ø	641	3	1		<1	<1	<1
99.5	104.5	5.Ø	642	<1	1		<1	<1	<1

215033

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

SRD8 033

AREA 0 | PROJECT NUMBER 600 | DATE STARTED | CO-ORDINATES N | COLLAR R.L. | AREA OF INFLUENCE | HOLE NUMBER 79144N4 1

STATE | LOCATION | DIP | BEARING | DATE COMPLETED | CONTRACTOR | DRILLER | E | DEPTH | DRILL TYPE | LOGGED BY

PAGE 6 OF 13

HOLE SIZE ____ TO ____

& ____ TO ____

ASSAY TYPE ____ TO ____

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 79144N4/	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
100	100																
							104.5	109.5	5.0	643		<1	3		<1	<1	<1
100	105																
							109.5	114.5	5.0	644		100	30		1	<1	<1
100	110																
							114.5	119.5	5.0	645		10	3		<1	<1	<1
100	115																
							119.5	124.5	5.0	646		<1	10		<1	<1	<1
	120																

2150034

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

034

AREA 0

PROJECT NUMBER 600

DATE STARTED

DATE COMPLETED

CONTRACTOR

DRILLER

CO-ORDINATES N

E

COLLAR R.L.

DEPTH

LOGGED BY

AREA OF INFLUENCE

DRILL TYPE

HOLE NUMBER SRD8 7914N4 1

PAGE 7 OF 13

HOLE SIZE TO

& TO

ASSAY TYPE TO

STATE

LOCATION

DIP

BEARING

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4/	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
	120																
100																	
							124.5	129.5	5.0	647		<1	1		<1	<1	<1
	125																
100																	
							129.5	134.5	5.0	648		<1	3		<1	<1	<1
	130																
98																	
							134.5	139.5	5.0	649		<1	3		<1	<1	<1
	135																
100																	
							139.5	144.5		650		<1	1.0		<1	<1	<1
	140																

21503S

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

035

AREA: 0 | PROJECT NUMBER | DIP | BEARING | STATE | LOCATION

DATE STARTED | DATE COMPLETED | CONTRACTOR | DRILLER

CO-ORDINATES N | E | LOGGED BY

COLLAR R.L. | DEPTH | DRILL TYPE | AREA OF INFLUENCE

HOLE NUMBER: SRD8 / 791 4N4 1

PAGE 8 OF 13

HOLE SIZE _____ TO _____

& _____ TO _____

ASSAY TYPE _____ TO _____

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4/	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
	140																
		Pyritic (5%) zone 143.1 – 143.3m.															
100																	
							144.5	149.5	5.0	651		<1	3		<1	<1	<1
	145	Bedding (continued):-															
		150 – 150.6m / 25-60° To Core Axis, crenulated;															
		150.7m / 50°; 152.8m / 50°; 153.8 / 55°; 158.8 / 65°;															
		159m / 65°; 160.6 / 55°; 161.4 / 30°; 162.8 / 60°;															
99		163.5 / 55°; 164.6 / 60°; 164.7 / 60°; 164.9 / 60°; 165.1 / 55°;															
		165.2 / 70°; 166.3 / 65°; 166.5 / 55°; 167.8 / 65°; 168.8 / 60°;															
		169.5 / 60°; 170.8 / 55°; 173.3 / 55°; 174.5 / 45°;															
		174.7 / 55°; 174.8 / 55°; 175.4 / 55°; 176.4 / 55°;															
		177 / 55°; 177.5 / 55°; 177.8 / 55°; 178.7 / 60°;					149.5	154.5	5.0	652		3	10		<1	<1	<1
	150	179.4 / 20°; 179.6 / 35°; 179.8 / 0° crenulated;															
		180.5m / 0° crenulated; 180.2 / 55°;															
		181.3 – 181.7m / 50-55°; 183.5m / 45°; 183.7 / 55°;															
		183.8 / 60°; 184 / 55°; 184.3 – 184.6 / 65°;															
		185.3 / 55°.															
94		foliation 185.3 – 185.8 : 60-65° – shear plane also?															
		granite contact 85°															
		granite banding 185.9 / 50-60° subparallel to contact.					154.5	159.5		653		1	1		<1	<1	<1
	155	Internal contact 193.8 / 45° to C.A – between m.g-f.g and c.g. granite.															
98																	
		158.5 – 180m : patchy white dolomite with dark grey to black Ca-Si bands in places					159.5	164.5		654		<1	3		<1	<1	<1
	160																

215039

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

SRD8

036

AREA Ø

PROJECT NUMBER 600

DATE STARTED

DATE COMPLETED

CONTRACTOR

DRILLER

CO-ORDINATES N

E

COLLAR R.L.

DEPTH

LOGGED BY

AREA OF INFLUENCE

DRILL TYPE

HOLE NUMBER 7914N4/1

PAGE 9 OF 13

HOLE SIZE ____ TO ____

& ____ TO ____

ASSAY TYPE ____ TO ____

STATE

LOCATION

DIP

BEARING

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4/	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
	160																
100																	
							164.5	169.5	5.Ø	655		<1	3		<1	<1	<1
	165																
100																	
							169.5	174.5	5.Ø	656		3ØØ	3Ø		<1	<1	<1
	170																
100																	
							174.5	179.5	5.Ø	657		<1	3		<1	<1	<1
	175																
100																	
							179.5	185.5		658		1Ø	1Ø		<1	<1	<1
	180																

215037

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

AREA 0 | PROJECT NUMBER 600 | DATE STARTED | CO-ORDINATES N | COLLAR R.L. | AREA OF INFLUENCE | HOLE NUMBER SRD8 (7914N4 1)

STATE | LOCATION | DIP | BEARING | DATE COMPLETED | CONTRACTOR | DRILLER | E | DEPTH | DRILL TYPE | LOGGED BY

PAGE 10 OF 13

HOLE SIZE ____ TO ____

& ____ TO ____

ASSAY TYPE ____ TO ____

031

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4/	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
	180	180 - 185.5 white dolomite.															
100																	
	185	185.5 - 185.9 TRANSITION CONTACT ZONE - f.g. pale green dolomite hornfels → black c.g (3mm) Ca-Si rock					185.5	185.9	0.4	659		3.00%	1.0%	300	<1	<1	<1
100							185.9	191.0	5.1	660		3	3		3%	<1	<1
		185.9 - 250 : GRANITE - 5-15mm qtz, felspar granite (2-15mm qtz/2c- 25%; 5-15mm white felspar 70%; 1-5mm biotite 5%. 1-10mm "chilled" granite 185.9 - 196.5m, possibly more biotite. also variable grain size 223.5 - 226, 238 - 239.5m.															
100	190						191.0	196.0	5.0	661		10	10		10	<1	<1
		Banding/foliation: 185.5 - 185.8m / 60-65° - Shear? Contact ~ 85° to C.A. granite banding 185.9 / 50-60° sub// contact. "contact" 193.8 : mg b f.g granite ≈ c.g. granite 45° to CA.															
100	195						196.0	201.0	5.0	662		3	1		10	<1	<1
100	200																

215038

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

038

AREA 0 | PROJECT NUMBER | DATE STARTED | DATE COMPLETED | CONTRACTOR | DRILLER | CO-ORDINATES N / E | COLLAR R.L. | DEPTH | LOGGED BY | AREA OF INFLUENCE | DRILL TYPE | HOLE NUMBER SRD8 7914N4 1 | PAGE 11 OF 13 | HOLE SIZE TO | & TO | ASSAY TYPE TO

STATE | LOCATION | DIP | BEARING

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
100	200						201.0	206.0	5.0	663		3	3		10	<1	<1
100	205						206.0	211.0	5.0	664		3	3		30	<1	<1
100	210						211.0	216.0	5.0	665		3	3		30	<1	<1
100	215						216.0	221.0	5.0	666		1	1		10	<1	<1
100	220																

21503 9

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

SRD8 039

AREA: 0 | PROJECT NUMBER: 600 | DIP | BEARING | STATE | LOCATION

DATE STARTED | DATE COMPLETED | CONTRACTOR | DRILLER

CO-ORDINATES N | E | COLLAR R.L. | DEPTH | LOGGED BY

AREA OF INFLUENCE | DRILL TYPE

HOLE NUMBER: 7914N4 1

PAGE 12 OF 13

HOLE SIZE ____ TO ____ & ____ TO ____

ASSAY TYPE ____ TO ____

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N1/	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
	220												3		10	1	<1
							221.0	226.0	5.0	667		3					
100																	
	225																
							226.0	231.0	5.0	668		1	10		10	<1	<1
100																	
	230																
							231.0	236.0	5.0	669		3	3		10	<1	<1
100																	
	235																
							236.0	241.0	5.0	670		1	1		10	<1	<1
100																	
	240																

21504O

PACMINEX PTY. LTD. — DETAILED DRILL LOG

PACMINEX

040

AREA 0 | PROJECT NUMBER 600 | DATE STARTED | CO-ORDINATES N | COLLAR R.L. | AREA OF INFLUENCE | HOLE NUMBER SRD8 7914N4 1

DATE COMPLETED | E | DEPTH | DRILL TYPE | PAGE 13 OF 13

STATE | LOCATION | DIP | BEARING | CONTRACTOR | DRILLER | LOGGED BY | HOLE SIZE TO | & TO | ASSAY TYPE TO

% CORE RECOVERY	METRES	SUMMARY DESCRIPTION	ROCK TYPE	S.G.	VISUAL LOG	LOG SCALE 1:	START DEPTH	FINISH DEPTH	SAMPLE INTERVAL	SAMPLE NUMBER 7914N4	MIN. TYPE	ACCEPTED ASSAY Sn	Cu	Zn	Pb	Bi	Ag
	240																
							241.0	246.0	5.0	6711		1	1		1.0	<1	<1
100																	
	245																
							246.0	250.0	4.0	6712		1	1		1.0	<1	<1
100																	
	250																

EASTMAN Single shot instrument : Inclinations :

0m	−39½°	233°M (Abney/Brunton)
78m	−37°	234 M
120	−37	234°M
141	−37	223°M ?
190	−38	239°M
250	−38	240°M.

21504 1

APPENDIX III

EMISSION SPECTROGRAPH : ANALYSES OF CORE SAMPLES

042

215043

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UNLEY, S.A. 5061
PHONE: 272 5733

ANALYTICAL RESULTS

Samples from: Pacminex Pty. Ltd.
Area:
Samples of: Rock, Core
Preparation:
Batch No.: A 2547

Sheet No.: 1
Date: 18.9.78

SAMPLES WILL BE DISPOSED OF AFTER TWO MONTHS UNLESS WE ARE OTHERWISE ADVISED

Sample Description	W ppm	Ag ppm	As ppm	Au ppm	Bi ppm	Cu ppm	Pb ppm
7914N3/501	<2	<1	<50	<3	<1	30	<1
502	<2	<1	<50	<3	<1	10	<1
504	<2	<1	<50	<3	<1	3	<1
507	<2	<1	<50	<3	<1	10	<1
510	10	<1	<50	<3	<1	10	<1
513	<2	<1	<50	<3	<1	100	<1
516	<2	<1	<50	<3	<1	10	<1
519	<2	<1	<50	<3	<1	3	<1
522	<2	<1	<50	<3	<1	3	<1
525	<2	<1	<50	<3	<1	10	<1
528	<2	<1	<50	<3	<1	100	<1
531	<2	<1	<50	<3	<1	100	<1
533	<2	<1	<50	<3	<1	30	<1
536	<2	<1	<50	<3	<1	30	<1
539	<2	<1	<50	<3	<1	30	<1
541	<2	<1	<50	<3	<1	3	<1
543	<2	<1	<50	<3	<1	3	<1
546	<2	<1	<50	<3	<1	1	<1
549	<2	<1	<50	<3	<1	30	<1
552	10	<1	<50	<3	<1	30	<1
553	150	<1	<50	<3	<1	30	<1
554	<2	<1	<50	<3	<1	100	3
555	<2	<1	<50	<3	1	300	30
556	<2	<1	<50	<3	<1	100	<1
557	<2	<1	<50	<3	<1	100	<1
558	<2	<1	<50	<3	<1	30	<1
559	5	<1	<50	<3	<1	30	<1
560	5	<1	<50	<3	<1	30	<1
561	<2	<1	<50	<3	<1	3	<1
562	<2	<1	<50	<3	<1	30	<1
563	<2	<1	<50	<3	<1	3	<1
564	<2	<1	<50	<3	<1	30	<1
566	<2	<1	<50	<3	<1	30	<1
568	<2	<1	<50	<3	<1	30	<1
569	<2	<1	<50	<3	<1	100	<1
570	<2	<1	<50	<3	<1	100	3
571	<2	<1	<50	<3	<1	30	<1
572	<2	<1	<50	<3	<1	30	<1
574	<2	<1	<50	<3	<1	30	<1
576	<2	<1	<50	<3	<1	10	<1
579	<2	<1	<50	<3	<1	3	<1
581	<2	<1	<50	<3	<1	1	1
583	<2	<1	<50	<3	<1	30	1
585	<2	<1	<50	<3	<1	100	1
587	<2	<1	<50	<3	<1	100	3
589	10	<1	<50	<3	<1	30	<1
590	<2	<1	<50	<3	<1	30	1
591	<1	<1	<50	<3	1	10	1
593	<1	<1	<50	<3	<1	1	1
595	<1	<1	<50	<3	<1	1	<1

ANALYTICAL METHODS:

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50 MARY STREET
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P.O. BOX 3
UNLEY, S.A. 5061
PHONE: 272 5733

ANALYTICAL RESULTS

Samples from: Pacminex
Area:
Samples of: Rock, Core
Preparation:
Batch No.: A 2547

Sheet No.: 2
Date: 18.9.78

SAMPLES WILL BE DISPOSED OF AFTER TWO MONTHS UNLESS WE ARE OTHERWISE ADVISED

Sample Description	W ppm	Ag ppm	As ppm	Au ppm	Bi ppm	Cu ppm	Pb ppm
7914N3/598		<1	<50	<3	<1	1	1
599		<1	<50	<3	<1	1	<1
601		<1	<50	<3	<1	30	<1
603		<1	<50	<3	<1	10	<1
605		<1	<50	<3	<1	10	<1
607		<1	<50	<3	<1	10	<1
609		<1	<50	<3	<1	10	<1
611		<1	<50	<3	<1	1	<1
612		<1	<50	<3	<1	1	<1
613		<1	<50	<3	<1	3	<1
614		<1	<50	<3	<1	1	<1
615		<1	<50	<3	<1	10	<1
616		<1	<50	<3	1	30	<1
617		1	<50	<3	1	100	1
618		<1	<50	<3	1	100	<1
7914N4/625		<1	<50	<3	1	100	<1
626		<1	<50	<3	1	100	<1
627		<1	<50	<3	1	100	<1
628		<1	<50	<3	3	10	<1
629		<1	<50	<3	1	30	1
630		<1	<50	<3	<1	30	<1
631		<1	<50	<3	<1	10	<1
632		<1	<50	<3	10	100	<1
633		<1	<50	<3	<1	30	<1
634		3	<50	<3	3	10	<1
635		<1	<50	<3	<1	10	3
636		<1	<50	<3	<1	10	1
637		<1	<50	<3	1	3	<1
638		<1	<50	<3	<1	3	<1
639		<1	<50	<3	<1	10	1
640		<1	<50	<3	<1	3	<1
641		<1	<50	<3	<1	1	<1
642		<1	<50	<3	<1	1	<1
643		<1	<50	<3	<1	3	<1
644		<1	<50	<3	<1	30	1
645		<1	<50	<3	<1	3	<1
646		<1	<50	<3	<1	10	<1
647		<1	<50	<3	<1	1	<1
648		<1	<50	<3	<1	3	<1
649		<1	<50	<3	<1	3	<1
650		<1	<50	<3	<1	10	<1
651		<1	<50	<3	<1	3	<1
652		<1	<50	<3	<1	10	<1
653		<1	<50	<3	<1	1	<1
654		<1	<50	<3	<1	3	<1
655		<1	<50	<3	<1	3	<1
656		<1	<50	<3	<1	30	<1
657		<1	<50	<3	<1	3	<1
658		<1	<50	<3	<1	10	<1
659		<1	<50	<3	<1	100	<1

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ANALYTICAL RESULTS

Samples from: Pacminex Pty. Ltd.
Area:
Samples of: Rock, Core
Preparation:
Batch No.: A 2547

Sheet No.: 3
Date:

SAMPLES WILL BE DISPOSED OF AFTER TWO MONTHS UNLESS WE ARE OTHERWISE ADVISED

Sample Description	W ppm	Ag ppm	As ppm	Au ppm	Bi ppm	Cu ppm	Pb ppm
7914N4/660		<1	<50	<3	<1	3	30
61		<1	<50	<3	<1	10	10
62		<1	<50	<3	<1	1	10
63		<1	<50	<3	<1	3	10
64		<1	<50	<3	<1	3	30
65		<1	<50	<3	<1	3	30
66		<1	<50	<3	<1	1	10
67		<1	<50	<3	1	3	10
68		<1	<50	<3	<1	10	10
69		<1	<50	<3	<1	3	10
70		<1	<50	<3	<1	1	10
71		<1	<50	<3	<1	1	10
72		<1	<50	<3	<1	1	10
73		1	<50	<3	3	300	<1
600 1115R		<1	<50	<3	<1	30	<1
1116R		<1	<50	<3	<1	30	3
1239R		<1	<50	<3	1	30	1
1221R		<1	<50	<3	<1	30	<1
1222R		<1	<50	<3	<1	1	<1
1223R		1	<50	<3	<1	100	3
1118R		<1	<50	<3	<1	3	<1
1243R		<1	<50	<3	<1	3	3
1241R		<1	<50	<3	<1	10	1
019864R		<1	<50	<3	<1	3	<1
019872R		1	<50	<3	1	10	3
CG 0042R		3	<50	<30	<1	100	3000

ANALYTICAL METHODS: W by E.S.1
Ag, As, Au, Bi, Cu, Pb by E.S.2

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ANALYTICAL RESULTS

Samples from: Pacminex Pty. Ltd.
Area:
Samples of: Rock, Core
Preparation:
Batch No.: A 2547

Sheet No.: 4
Date: 18.9.78

SAMPLES WILL BE DISPOSED OF AFTER TWO MONTHS UNLESS WE ARE OTHERWISE ADVISED

Sample Description	Sn ppm	Zn ppm
7914N3/501	<1	300
502	<1	<30
504	<1	100
507	<1	<20
510	<1	300
513	<1	<20
516	<1	<20
519	<1	<20
522	<1	<20
525	<1	<20
528	<1	<20
531	1000	<20
533	<1	30
536	<1	<20
539	3	<20
541	1	<20
543	<1	<20
546	<1	<20
549	<1	<20
552	300	<20
553	3000	<20
554	300	<20
555	3000	<20
556	1000	50
557	100	100
558	300	<20
559	3	<20
560	3	<20
561	300	30
562	1000	<20
563	30	<20
564	3	<20
566	1	<20
568	10	<20
569	1000	Int
570	10	Int
571	30	Int
572	10	Int
574	30	Int
576	3	Int
579	1	Int
581	<1	Int
583	1	Int
585	<1	Int
587	30	Int
589	300	Int
590	1	Int
591	10	Int
593	1	Int
595	3	Int

ANALYTICAL METHODS:

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ANALYTICAL RESULTS

Samples from: Pacminex Pty. Ltd.
Area:
Samples of: Rock, Core
Preparation:
Batch No.: A 2547

Sheet No.: 5
Date: 18.9.78

SAMPLES WILL BE DISPOSED OF AFTER TWO MONTHS UNLESS WE ARE OTHERWISE ADVISED

Sample Description	Sn ppm	Zn ppm
7914N3/598	<1	Int
599	1	Int
601	1000	Int
603	1	Int
605	10	Int
607	<1	Int
609	<1	Int
611	<1	Int
612	<1	Int
613	<1	Int
614	<1	Int
615	<1	Int
616	<1	<20
617	10	<20
618	10	<20
7914N4/625	3	300
626	3	300
627	3	300
628	1	Int
629	1	30
630	<1	30
631	<1	<20
632	1	<20
633	1	<20
634	<1	Int
635	10	Int
636	<1	Int
637	30	Int
638	<1	Int
639	1	Int
640	1	Int
641	3	Int
642	<1	Int
643	<1	Int
644	100	Int
645	10	Int
646	<1	Int
647	<1	Int
648	<1	Int
649	<1	Int
650	<1	Int
651	<1	Int
652	3	Int
653	1	Int
654	<1	Int
655	<1	Int
656	300	Int
657	<1	Int
658	10	Int
659	3000	300

ANALYTICAL METHODS:

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PHONE: 272 5733

ANALYTICAL RESULTS

Samples from: Pacminex Pty. Ltd.
Area:
Samples of: Rock, Core
Preparation:
Batch No.: A 2547

Sheet No.: 6
Date: 18.9.78

SAMPLES WILL BE DISPOSED OF AFTER TWO MONTHS UNLESS WE ARE OTHERWISE ADVISED

Sample Description	Sn ppm	Zn ppm
7914N4/660	3	Int
61	10	Int
62	3	Int
63	3	Int
64	3	Int
65	3	Int
66	1	Int
67	3	Int
68	1	Int
69	3	Int
70	1	Int
71	1	Int
72	1	Int
73	300	300
600 1115R	3	Int
1116R	<1	Int
1239R	30	30
1221R	3	Int
1222R	<1	Int
1223R	1	<20
1118R	<1	Int
1243R	<1	<20
1241R	3000	30
019864R	<1	<20
019872R	1	<20
CG 0042R	1	300

ANALYTICAL METHODS: Sn, Zn by E.S.2

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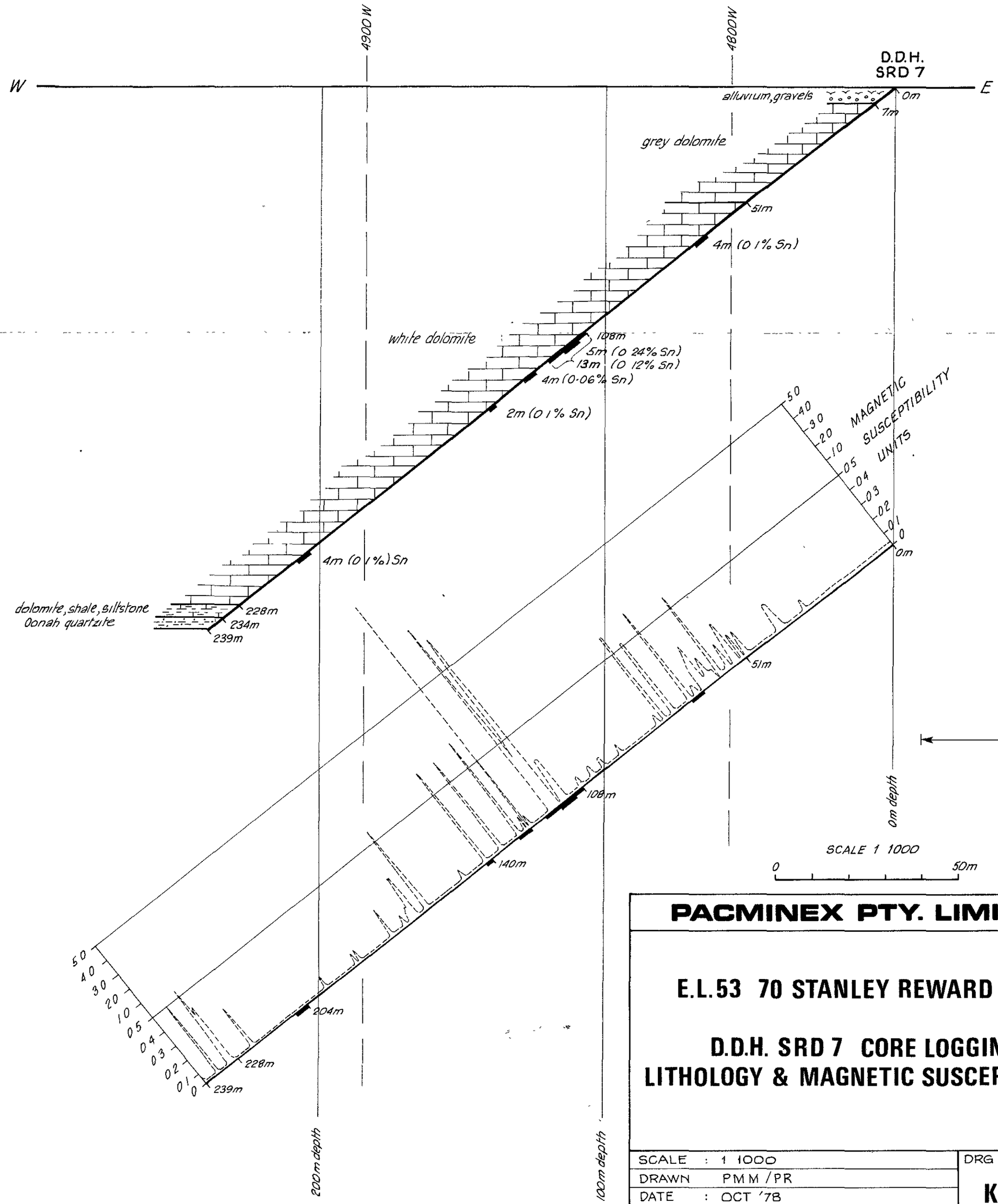
4800mN
5300mW
4500mW
5000mW
4100 mN
4100mN
REFERENCE
River, creek, track
Edge of alluvial flat
Ridge top (especially 1st ridge West of Livingstone Ck)
Strike & dip of bedding / jointing
Fault
TERTIARY Qrg Gravels
CAMBIAN A Crimson Creek Argillite
M Marker Sequence (inferred)
D Dolomitic Sequence dolomite (Dd), dolomitic siltstone (Dds), shale (Dsh), chert (Dc), etc
Forms a low lying alluvial covered area immediately overlying The Oonah Formation (N)
?PROTEROZOIC N Oonah Quartzite & Slate top units are finely bedded sericitic quartzite siltstones (Nq)
DEVONIAN G Meredith Granite granite (G) with quartz porphyry (Gqp), diorite (Gd), etc phases
Volcanics (ie Av etc)
Greywacke
Quartzitic siltstone
Siltstone
Shale, blockshale
Mudstone
Dolomite (ie Md, Dd etc)
Banded green micaceous dolomitic siltstone
Chert, black oolite chert
Soil ie granitic soil
Scree-eluvial to slope wash soil (SWS)
Auger hole
Dolomite at depth in auger hole (under alluvials)
Dolomite fragments (eluvial?) in auger hole ~1m depth
Chemical Analyses of soils (ppm):-
Sn 70 (300)
Cu 18
Zn 46
Pb 14
(-80 mesh fraction) (figures in brackets -20 mesh fraction)
x below limit of detection
Soil sample ≤ 0.3m depth
Soil sample from auger hole ≤ 1.5m depth
Stream sediment sample
Rock chip sample
D.D.H. LITHOLOGY
Alluvium, gravels
Greywacke
Banded dolomite - greywacke
Dolomite
Banded dolomite - siltstone (transitional)
Quartzitic siltstone
Granite, fine grained granite ('chilled')
Alluvial Workings
Pond
Stanley River
Helipad
DDH SRD 8
DDH SRD 7
pipe
track
215049
PACMINEX PTY. LIMITED
ANOMALY 45N / 48W
SOIL GEOCHEMISTRY - Sn, Cu, Zn, Pb.
LOCATION - D.D.Hs SRD7 & SRD8
STANLEY REWARD AREA
EL 53/70 STANLEY RIVER - TASMANIA
SCALE 1:1000
DRAWN PMM / PH
DATE SEPT '77
REVISED OCT 1978
K553-10A
6863

D.D.H. SRD 7



215050

PACMINEX PTY. LIMITED

E.L.53 70 STANLEY REWARD TAS.

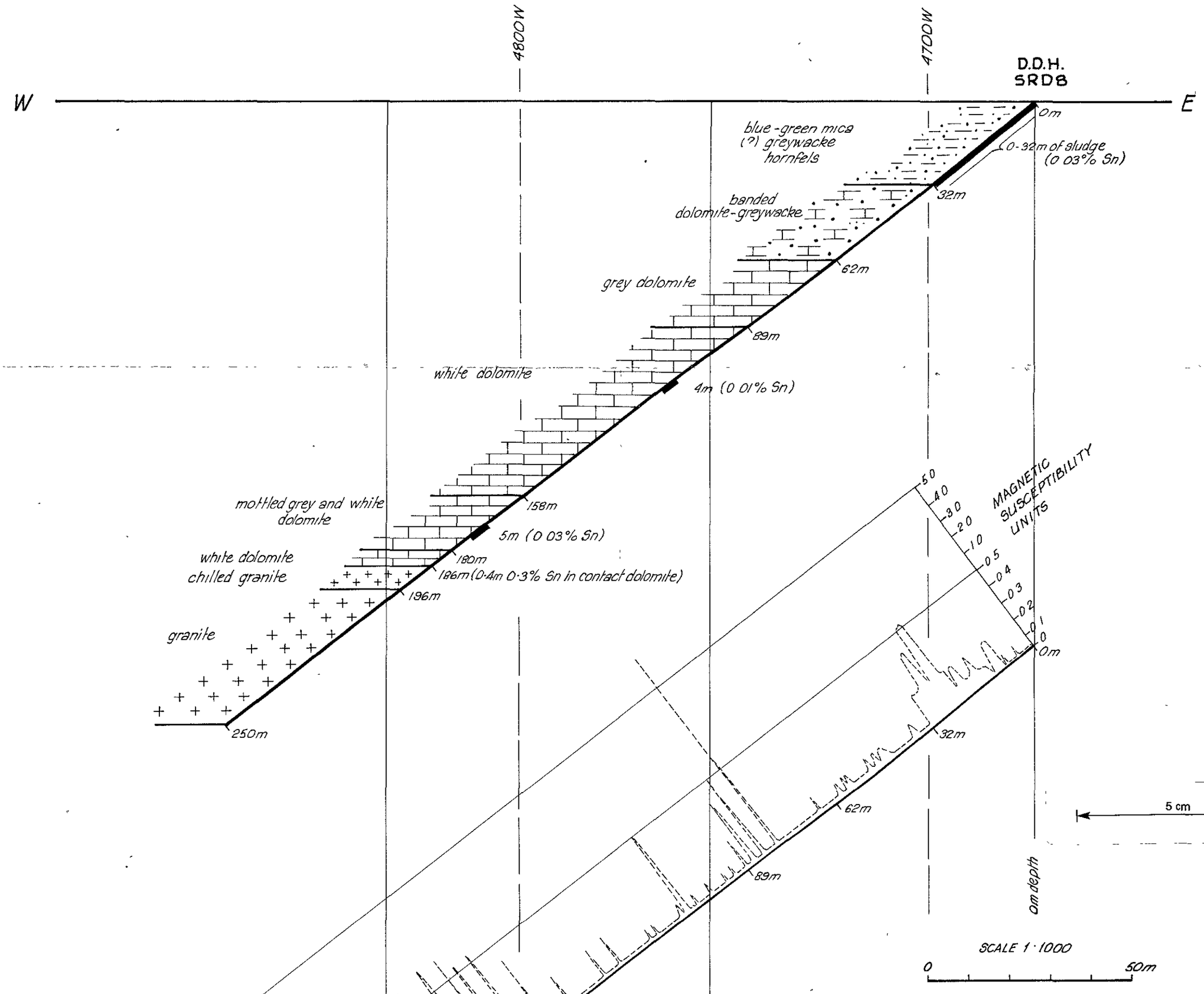
D.D.H. SRD 7 CORE LOGGING LITHOLOGY & MAGNETIC SUSCEPTIBILITY

SCALE : 1 1000	DRG No
DRAWN PMM/PR	K553-11
DATE : OCT '78	
REVISED :	

78-1311

6864

D.D.H. SRD 8



215051

PACMINEX PTY. LIMITED

E.L. 53/70 STANLEY REWARD TAS.

D.D.H. SRD 8 CORE LOGGING

LITHOLOGY & MAGNETIC SUSCEPTIBILITY

SCALE · 1 1000	DRG No.
DRAWN · P M M /P.R	K553-12
DATE OCT '78	
REVISED	

6865

78-1311