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GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LIMITED

GOWANS CREEK PROSPECT

GRANVILLE HARBOUR

TASMANIA

PROGRESS REPORT E.L. 1/77

C. KENDALL

JUNE, 1984

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226002

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1. INTRODUCTION

The Gourlays Creek prospect is located in the south-west corner of E.L. 1/77 and is held in joint venture between CRAE and Geopeko (Figure 1). During the period June 1983 to June 1984 the work outlined herein was undertaken. For the sake of convenience, the Gourlays Creek grid has been divided and worked in two parts. The southern part, or "Southern Window" extends from line 9400N to line 10700mN.
The area from 10700N to 11600mN is called the "Central Window".

WORK DONE

1. Central Window

- Jacro soil sampling programme
- UTEM survey
- Drilling 3 diamond drill holes
- Extension of line 11000mN west to the coast

2. Southern Window

- Remap the geology on the updated grid
- Dipole-Dipole Induced Polarisation survey on all lines not surveyed previously
- Extension of line 10600mN west to the coast
- Jacro soil sampling programme (currently in operation)

2. CONCLUSIONS AND RECOMMENDATIONS

The data so far collected suggests that there is potential for a replacement style tin mineralization within the banded calc-silicate rocks of the Oonah sequence. The mapping, from outcrop and with the aid of the auger chips has shown a sequence of quartzites, siltstones and carbonates dipping at approximately 50° to the east. Within the siltstones there is a banded unit consisting of pyrite, magnetite, pyrrhotite and chalcopyrite. This unit parallels bedding and is considered to be syngenetic. It can be followed along strike and is coincident with the airborne magnetic anomaly. This unit, so far, has been shown to have little tin (max value 1000ppm) but it may prove useful as a marker horizon since to the west, and therefore stratigraphically below it there is a second sequence of calc-silicate rocks which have not been tested.

The Jacro geochem programme in the Central Window showed a discrete zone of anomalously high Sn roughly coincident with high Cu and Zn. This zone covers the eastern calc-silicate assemblage and terminates at the western edge of the banded pyrite magnetite unit. This has the appearance of a halo around a deeper well mineralized body.

The first two diamond drill holes, GC-1 and GC-2, were designed to test this model. DDH GC-1 intersected a pyroxene garnet skarn interbedded with a pyroxene magnetite skarn. This rock had a maximum assay value over 1 metre of 0.3%Sn. It also intersected the magnetite, pyrite rock which had a maximum value of 0.1%Sn.

DDH GC-2 intersected massive magnetite and a magnetite pyrite barite sequence but showed no tin response. DDH GC-3 was drilled under GC-1 to test the down dip extension of the pyroxene garnet skarn. The intersection was where it was interpreted to be, the pyrite had become pyrrhotite and there was very little unreplaced, free carbonate. The presence of axinite crystals confirmed that boron rich fluids from the Heemskirk Granite have been active in the system. The assay results are not yet available for GC-3, but dependent on those results the following recommendations are made.

1. In view of the extended strike length of this anomaly (over 2km), close spaced drilling to intersect the upper skarn horizon should be priority. It would be possible to pre-collar to 100 metres and core to intersection. These holes would be targeted on bedrock geochem results.

2. Test the calc-silicate rocks which outcrop on lines 10600mN and 11000mN. These rocks appear to have strike continuity; these are carbonates within this group and they can be followed almost to the granite outcrop. Geology mapping has revealed numerous tourmaline greisens and quartz tourmaline vein swarms around the granite contact.

3. GOURLAYS CREEK

3.1. General

The results of a soil geochemistry survey, ground magnetics, induced polarization and UTEM surveys and geological mapping have outlined a well defined tin anomaly over a banded sequence of rocks consisting of siltstones, quartzites, shales, calc-silicates, sulphides and magnetite. A small percentage of this area is overlain by Tertiary basalt which was too thick to penetrate for sampling purposes.

The geophysical techniques have defined three conductive zones. Field work during the last year has been aimed at defining these conductive zones.

One of the first tasks was to reconcile the grid over the Central Window with the grid over the Southern Window.

A survey using theodolite and tape was carried out using the Lands Department peg at 2400E 10783N as datum. Plan 3 shows the final grid configuration.

A geological fact map (Plan 2) has been compiled from current mapping and mapping done by Perring (1983).

3.2. Geology

Mapping of the Central Window was carried out by Perring (1983). This work outlined the massive magnetite and pyrite zones in the Central Window and also showed the presence of the western zone of calc-silicates.

During the past year, the grid has been further opened up by bulldozers allowing more outcrops to be mapped; also the auger chips have been mapped. The current picture is of a series of siltstones and quartzites with shales, sulphides, calc-silicates,

carbonates and magnetite interbeds, dipping at 50°E.

It is a sedimentary sequence with well defined bedding although no other sedimentary structures have been observed. The siltstones have been hornfelsed by the granite emplacement to result in a sequence of biotite hornfels. There appears to have been abundant fluid movement associated with the granite emplacement. Quartz/tourmaline veins and tourmaline greissens are common around the granite contact. Tourmaline has been observed in drill core in GC1 and axinite has been observed in core in GC3. The carbonate horizons have been metasomatised to form pyroxene garnet skarns and pyrite magnetite skarns, with actinolite being the common accessary mineral. Pyritic black shales and pyrrhotitic black shales have been observed on the eastern section of the grid. In the southern window the mapping has helped confirm the strike continuity of the rocks exposed to the north.

3.3. Geochemistry

A 'C' horizon sampling programme using the Bombardier mounted Jacro power auger was completed over the central window.

Sampling was done on 12.5metre spacings at depths ranging from 0.6m to 22m. All holes except those which could not penetrate the basalt cover were drilled to refusal point.

At all points, two samples were taken; one sample was sent to Australian Laboratory Services in Brisbane for analysis, the other sample has been stored for reference purposes.

At each tenth sample location a triplicate sample was taken. This sample was sent to ANALABS in Burnie for analysis as a check. A comparison of results is provided in Appendix 8 Plan 4 shows the sample location points. Analysis for Cu, Pb, Zn, Ag, Fe, Bi, Mo was done by A.A.S. methods; As by hydride generation and Sn and W by XRF. All results are included as Appendix 1. The values for Cu, Zn and Sn have been contoured and are presented as Figurs 5,6 and 7. The profiles for Cu, Sn, W, Fe and Zn are shown on the line cross-sections Figures 8-14.

3.4. Geophysics

1) Central Window

Two UTEM surveys were conducted by Geophysical Exploration Consultants. The first survey consisted of a 600m loop set out from 11000N (1150E to 1750E) to 11600N (1150E to 1750E). Readings were taken from 1800E to 2600E on each of the six grid lines. The profiles are included as Appendix 2. The second survey was a 400m x 300m loop from 11600 (1300E to 1700E) to 11900 (1300E to 1700E). The profiles are included as Appendix 3.

Line 11100N was chosen for detailed interpretation because it is the centre of the Sn geochem anomaly and DDH GC-1 was collared on line 11100N (ref SectionIV)

The detailed interpretation is included as Appendix 2.

2) Southern Window

An infill Dipole-Dipole IP survey was conducted over the southern window to provide complete coverage on 100m line spacing.
The Dipole spacing used was 50m.
The results have been plotted and are presented in pseudo-section form. Figure 15.

Line 10600N has been extended west to the coast and ground magnetics have been read on this line. The profile is presented as Figure 16.

3.5 Diamond Drilling

To date, three holes have been drilled in the Central Window.
The first hole DDH GC-1 (proposal included as Appendix 4) was drilled to test the magnetic, IP and geochem anomalies developed on line 11100N.
The following is a summary log of the core with a detailed log included as Appendix 5.
Geochemically, GC1 returned a maximum Sn value of 0.3% with good correlation between Sn, Cu, Fe and the magnetic suceptibilites (Figure 17).
DDH GC-2, originally proposed as GC-A by Perring (1983) was to test the relationship between magnetite and pyrite.

The following summary log is included here with the detailed log included as Appendix 6. The relationship between Sn, Cu and Fe is show in Figure 18.

SUMMARY LOG DDH GC-1 GOURLAYS CREEK

0 - 34.3m	Grey-green phyllitic shales
34.3- 39	Pyroxene-hornblende-quartz-calcite skarn with a trace of disseminated chalcopyrite
39 - 41	Banded quartz-magnetite rock
41 - 44	Pyroxene-quartz-magnetite rock with trace chalcopyrite
44 - 50	Amphibolite (?) with disseminated magnetite (possibly meta basic tuff)
50 - 150.6	Biotite-actin olite hornfels
150.6- 153.9	Massive pyrite (80%), siderite (15%) and magnetite (5%)
153.9- 160.3	Altered biotite hornfels with quartz veining Minor pyrite
160.3- 163.5	Banded magnetite-quartz-pyrite rock
163.5- 177.5	Altered pyritic quartzite (2% pyrite)
177.5- 198	Biotite quartzite

E.O.H.

SUMMARY LOG DDH GC2 GOURLAYS CREEK

0	-	34.9	Grey green quartzites and meta-siltstones (heavily oxidised)
34.9	-	50.8	Grey phyllites with irregular quartz veins
50.8	-	51.8	Massive magnetite
51.8	-	52.0	Massive pyrite
52.0	-	68.8	Biotite hornfels
68.8	-	72.9	Pyrite 50% magnetite 30% garnet 2% Barite ?? Quartz rock
72.9	-	75.5	Amphibolite with quartz veins
77.5	-	96.8	Banded meta siltstones and schists with quartz veins and sulphide bands parallel to banding
96.8	-	97.0	Massive pyrite
97.0	-	167.0	Meta siltstones showing chlorite alteration
E.O.H.			Pyrite/magnetite bands parallel to banding

The core from the first 2 drill holes has been photographed and the photographs accompany the original drill log.

DDH GC3, collared on line 11100N at 2515E was drilled to a depth of 376m.
It was designed to test the eastern most anomaly as defined by the UTEM survey as well as the down-dip continuation of the two mineralized zones intersected in GC-1.

A brief summary log is included here, with the detailed log inclued as Appendix 9.

Figure 21 is a composite plan showing the geophysics; geology and geochemisty . This plan shows the relevant trends and gives some idea of possible structural elements.

SUMMARY LOG GC -3

0 -	16m	Tertiary Basalt
16 -	18.5	Calc-silicate horizon
18.5-	56.0	Siltstones, quartzites and shales
56.0-	69.5	Siltstones and black shales
69.5-	133	Siltstones, quartzite and shales with minor sulphides (pyrite and pyrrhotite)
133 -	134	Banded quartz magnetite rock
134 -	135	Calc-silicate
135 -	156	Quartz mica schist
156 -	165	Pyroxene garnet pyrite, pyrrhotite rock
165 -	184	Micaceous schists
184 -	200	Pyroxene garnet rock with pyrrhotite magnetite aximite and tourmaline?
200 -	217	Quartz mica schists
217 -	227	Biotite hornfels (mineralized)
227 -	291	Biotite hornfels
291 -	306	Massive sulphides and banded sulphides pyrite pyrrhotite, chalcopyrite and magnetite
306 -	376	Quartzites, biotite hornfels

3.6. Interpretation and Evaluation

1. Central Window

Geology

The Central Window was shown by Perring (1983) to contain a sequence of banded magnetite pyrite rocks within typical Oonah quartzites and siltstones.
The mapping of the Jacro samples did nothing to confirm or deny this suggestion because the sample spacing was 12.5m and the magnetite pyrite bands are thin enough to occur between sample locations.
The sampling did show that there were no prominent black shale sequences such as those at Granville East and Big Rocky (Heithersay and Sumpton 1982).
It did show one possible black shale occurrence at 11100N 2700E which could not be repeated when a second hole was accidently drilled 1m south of the first hole. Other occurences of grey shales and minor black shales are not considered significant.
On a broader sense, the sampling programme allowed the area to be roughly divided into 2 zones. The eastern zone consists mostly of siltstones (micaceous and/or chloritic) and quartzites as a interbedded sequence. The general lithology has been refered to as quartz mica schist.
The western zone is mostly quartzites with much less siltstone interbeds. This western zone is also known to contain calc-silicate horizons as mapped on 10600N from 1650E to 1300E (KR 13152) and at other locations as well as being intersected in DDH GC1.

The Oonah quartzites of which this is part as confirmed by N. Turner and A. Brown of the Tasmanian Mines Department (pers comm) also contains a tuffaceous unit described as a crystal tuff. (Sample KR 13157.)
The lithologies intersected in DDH GC1 and GC2 have indicated that this is a metasomatic skarn type environment as evidenced by the pyroxene garnet skarn in GC1.

At this stage the structure of the area is not understood. The strike is to the north-west the dip is to the east at 50-60°. There is no surface indication of faulting. There are breccia zones in the drill core (GC1) which may indicate zones of movement and possible channelways for granite sourced fluids.
The model thus far envisaged is a granite body buried at depth (up to 1.5km) intruding the Precambrian Oonah sequence of quartzites and siltstones with some carbonate horizons. The carbonate horizons have been subjected to metasomatism to produce a pyroxene garnet skarn with a maximum recorded value of 0.3%Sn. The magnetite/pyrite horizons appear conformable and possibly represent original iron rich sediments.

W.H. Fander of C.M.S. reports on sample KR 13164 which is magnetite rich quartzite which is the possible strike continuation of the banded magnetite rock in GC1 (Appendix 7).

Geochemistry

The soil sampling programme designed to test C horizon and possibly bedrock by using the Bombardier mounted Jacro auger rig produced the following results.

1. Sn Geochemistry

Values greater than 50ppm were considered anomalous and have been contoured (Figure 7). The contouring shows that the anomalous zones roughly parallel the general north west strike and confirm the geological interpretation of a banded sequence.

The maximum value was 0.2%Sn on 11100N 2225E. The zone of anomalous tin is coincident with the pyroxene skarn unit as intersected in GC1. It's centred roughly midway between the eastern and western IP zones (Figure 19).

2. Cu Geochemistry

The zone of anomalous Cu (100ppm) is much more extensive than the Sn zone. The only obvious correlation between Sn and Cu is that wherever there is anomalous Sn there is anomalous Cu but the reverse is not always true.

3. Other Element Geochemistry

The Zn values have been contoured and are presented as Figure 6. There is no obvious correlation with Sn or Cu other than to say that the patterns are similar and roughly coincident. The Pb values were consistently low with a maximum value of 840ppm at 11500N 2187.5E. There were only seven values greater than 100ppm.

Bi and Mo results were insignificant as was W. % Fe results have been plotted on line profiles (Figures 8-14). As values were erratic and have not been evaluated.

Geophysics

The previous interpretation of the IP survey by Sumpton (Perring 1983) has been revised and an updated interpretation diagram is included as Figure 19.
(Refer input from John Sumpton)

REFERENCES

Perring R.J., 1983: E.L. 1/77 Rocky Cape -Gourlays Creek Prospect Progress Report January 1 to June 30, 1983.

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GEOCHEM RESULTS

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CRA EXPLORATION PTY. LTD.

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Min	Min Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140117	2400	11300	11.5	155	B-C					0	2	105	4	1			130	20	70	2	4.39	<5	<2	<20	10	<10	
1140118	2387.5	11300	7	215	C					0	2	105	9	1			50	15	70	2	3.24	<5	10	<20	5	10	
1140119	2125	11300	9.5	293	C					0	2	105	9	1			280	25	60	2	7.71	5	10	20	10	<10	
1140120	2112.5	11300	6	123	C					0	2	105	9	1			140	15	45	2	2.26	5	5	<20	<5	<10	
1140121	2100	11300	6.5	155	C					0	2	100	4	1			145	15	30	2	2.82	<5	10	<20	<5	30	
1140122	2400	11187.5	13	155	C					0	2	93	18	1			140	30	250	4	14.3	35	10	40	895	<10	
1140123	2400	11175	13.5	255	B-C					0	2	91	18	1			125	20	170	2	11.0	<5	10	40	270	<10	
1140124	2400	11162.5	13.5	253	C					0	2	100	18	1			120	25	160	4	14.4	<5	10	<20	15	<10	
1140125	2400	11150	13.5	255	C					0	2	91	18	1			80	25	220	4	11.3	<5	15	<20	5	<10	
1140126	2400	11137.5	12.5	255	C					0	2	91	18	1			100	25	185	5	14.4	<5	10	<20	10	<10	
1140127	2400	11125	9	273	C					0	2	91	18	1			220	25	80	2	6.86	<5	<2	20	70	10	
1140128	2400	11112.5	12.5	377	C					0	2	91	18	1			700	30	100	4	13.5	<5	5	<20	155	20	
1140129	2400	11100	12	274	C					0	2	100	18	1			820	25	115	4	14.0	<5	10	<20	245	<10	
1140130	2400	11087.5	8	125	C					0	2	105	18	1			80	25	55	3	3.96	5	10	<20	10	<10	
1140131	2400	11075	11	254	C					0	2	91	18	1			180	35	135	4	10.1	10	10	<20	450	20	
1140132	2400	11062.5	5	355	C					0	2	91	18	1			105	85	120	4	12.4	<5	10	<20	890	<10	
1140133	2400	11050	11	254	C					0	2	91	18	1			45	25	125	3	4.41	5	5	<20	35	10	
1140134	2400	11037.5	8	254	C					0	2	91	18	1			80	40	100	4	6.95	<5	10	40	15	<10	
1140135	2400	11025	11	277	C					0	2	8	4	1			65	45	260	5	11.6	<5	5	<20	225	<10	
1140136	2400	11012.5	9	172	C					0	2	100	18	1			100	90	145	4	13.2	<5	5	<20	905	30	

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Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Min	Min Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140137	2350	11000	6	274	C					0	2	105	3	1			110	75	180	4	13·1	<5	10	<20	190	<10	
1140138	2350	10987·5	4	285	C					0	2	8	4	1			110	40	110	3	8·13	<5	5	<20	50	<10	
1140139	2400	10975	11	284	C					0	2	8	4	1			80	40	180	3	4·30	<5	5	<20	<5	<10	
1140140	2400	10962·5	10	285	C					0	2	100	4	1			170	50	130	3	5·53	<5	5	<20	<5	<10	
1140141	2400	10950	7	243	C					0	2	100	4	1			60	50	110	2	4·43	<5	<2	<20	<5	<10	
1140142	2400	10937·5	8	247	C					0	2	100	18	1			110	55	160	3	6·23	<5	<2	<20	5	10	
1140143	2400	10925	6·5	273	C					0	2	8	4	1			135	50	105	3	7·89	5	5	<20	20	<10	
1140144	2400	10912·5	6	285	C					0	2	100	18	1			230	45	120	4	12·3	<5	<2	<20	45	<10	
1140145	2400	10900	7	234	C					0	2	100	18	1			80	35	80	2	3·66	<5	5	<20	<5	<10	
1140146	2400	10887·5	8	284	B					0	2	91	18	1			160	25	145	3	6·71	<5	10	<20	15	<10	
1140147	2400	10875	7	235	C					0	2	100	18	1			130	30	90	3	5·87	<5	10	<20	10	<10	
1140148	2400	10862·5	5	255	C					0	2	100	18	1			480	40	105	4	12·9	<5	15	<20	85	<10	
1140149	2400	10850	6	244	C					0	2	10	18	1			640	25	110	3	6·74	<5	10	20	<5	<10	
1140150	2400	10837·5	4	234	C					0	2	105	4	1			250	35	90	3	3·34	<5	15	<20	<5	<10	
1140151	2400	10825	2·5	344	C					0	2	8	4	1			220	60	120	3	5·40	<5	10	<20	5	<10	
1140152	2400	10812·5	2	344	C					0	2	8	4	1			40	20	30	3	5·29	<5	5	<20	<5	10	
1140153	2400	10800	5	125	C					0	2	10	9	1			165	60	270	3	4·91	<5	5	20	<5	<10	
1140154	2087·5	11300	8	275	C					0	2	93	18	1			105	45	165	4	7·72	<5	10	<20	5	<10	
1140155	2075	11300	1	123	C					0	2	8	9	1			200	30	80	4	8·65	5	10	<20	<5	<10	
1140156	2112·5	11400	8·5	123	B					0	2	14	4	1			10	15	60	1	6·34	<5	<2	<20	<5	20	
DETECTION LIMIT																	G001	G001	G001	G001	G001	G001	G010	G003	XRFIA	XRFIA	
ANALYTICAL METHOD																											

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GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project GOURLAYS CREEK AMG Zone

DPO's

Sample No's 1140137 – 1140156

Sheet No

Laboratory A.L.S. BRISBANE

Collected by C J KENDALL Date SEP 8

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Min	Min. Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140157	2125	11400	8·5		C					0	2	8	4	1			195	40	380	3	17·6	<5	5	40	5	10	
1140158	2137·5	11400	8·5		C					0	2	93	18	1			65	65	150	2	10·3	<5	2	<20	10	<10	
1140159	2150	11400	4		C					0	2	105	9	1			45	15	35	2	4·35	<5	<2	<20	<5	20	
1140160	2162·5	11400	7·5		B/C					0	2	105	9	1			100	10	65	1	3·95	<5	2	<20	5	10	
1140161	2175	11400	7·5		C					0	2	93	18	1			210	35	140	2	9·74	<5	2	<20	<5	20	
1140162	2187·5	11400	9·5		C					0	2	93	18	1			125	20	145	1	6·88	<5	2	<20	<5	10	
1140163	2200	11400	9·5		C					0	2	105	4	1			95	20	130	1	7·68	<5	2	<20	<5	10	
1140164	2212·5	11400	6·5		C					0	2	93	18	1			195	15	65	1	4·17	<5	5	<20	<5	20	
1140165	2225	11400	6·5		C					0	2	10		2	10		1100	45	150	3	6·58	<5	5	<20	30	10	
1140166	2237·5	11400	6·5		C					0	2	10		3	10		145	25	240	1	8·22	<5	5	<20	15	10	
1140167	2250	11400	3·5		C					0	2	105	9	1			30	20	60	<1	2·92	<5	5	<20	5	20	
1140168	2262·5	11400	5·5		C					0	2	93	18	1			150	20	90	2	8·62	<5	2	<20	20	<10	
1140169	2275	11400	6		C					0	2	93	18	1			70	15	160	2	12·0	<5	2	<20	<5	10	
1140170	2287·5	11400	10		B					0	2	11		1			65	15	170	2	10·6	<5	2	<20	<5	<10	
1140171	2300	11400	8·5		B					0	2	93	18	1			95	15	65	3	15·1	<5	2	<20	<5	<10	
1140172	2312·5	11400	8·5		B					0	2	93	18	1			75	15	75	3	14·2	<5	2	<20	<5	<10	
1140173	2325	11400	8·5		B					0	2	93	18	1			80	20	80	3	17·0	<5	5	<20	<5	<10	
1140174	2337·5	11400	11		C					0	2	105	9	1			60	10	55	1	3·95	<5	5	<20	<5	10	
1140175	2350	11400	11		B/C					0	2	93	18	1			55	15	55	2	6·78	<5	5	<20	<5	<10	
1140176	2362·5	11400	10		C					0	2	105	9	1			85	15	45	2	7·26	<5	2	<20	<5	10	
																	G001	G001	G001	G001	G001	G001	G010	G003	XRF10	XRF10	

2260241

GEOCHEMICAL SOIL SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD

Tenement Name

Area / Prospect

Map / Photo Ref

Project GOURLAYS CREEK AMG Zone

DPO's

Sample No's 1140157 – 1140176

Sheet No

Laboratory A.L.S. BRISBANE

Collected By C J KENDALL Date SEP 83

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Min	Min Type	LOOK	Cu m	Pb m	Zn m	Ag m	Fe %	Bi m	Mo m	As m	Sn m	W m	Geological Observations
1140177	2375	11400	10		B/C					0	2	10		2	10		65	15	75	2	9·16	<5	5	20	<5	<10	
1140178	2387·5	11400	10		C					0	2	10		2	10		70	15	95	1	7·18	<5	5	<20	<5	10	
1140179	2400	11400	10		B/C					0	2	11		1	10		115	10	75	1	8·66	<5	5	40	<5	20	
1140180	DIAG.	1787·5	10							0	2	105	4	1			50	15	65	2	6·82	<5	2	<20	5	<10	
1140181	DIAG	1775	9		C					0	2	105	4	1			50	15	40	1	4·64	<5	2	<20	5	<10	
1140182	DIAG.	1762·5	9		C					0	2	105	9	1			75	20	80	2	4·38	<5	5	<20	15	10	
1140183	DIAG.	1750	11		C					0	2	11		1			60	15	100	2	8·18	<5	2	<20	<5	<10	
1140184	DIAG	1737·5	11		B					0	2	105	4	1			95	20	220	3	11·2	<5	5	<20	<5	<10	
1140185	DIAG.	1725	11		C					0	2	93	18	1			80	20	145	3	15·0	<5	5	<20	<5	<10	
1140186	DIAG.	1712·5	11		B					0	2	105	4	1			100	30	85	2	11·0	<5	2	<20	<5	<10	
1140187	DIAG.	1700	11		B/C					0	2	105	4	1			85	25	90	2	8·76	<5	2	20	<5	10	
1140188	DIAG.	1687·5	10		B/C					0	2						95	30	180	2	8·08	<5	5	<20	<5	10	
1140189	2250	11500	11		B/C					0	2	93	18	1			60	15	240	2	10·4	<5	5	<20	<5	<10	
1140190	2237·5	11500	11		C					0	2						70	15	270	2	10·6	<5	5	<20	<5	<10	NOT FOUND
1140191	2225	11500	11		C					0	2	105	4	1			75	15	195	2	11·4	<5	5	<20	<5	<10	
1140192	2212·5	11500	10	125	C			20	80	0	2	105					35	10	110	1	8·54	<5	5	<20	<5	20	
1140193	2200	11500	10·5	173	B					0	2	100	4	1			40	20	130	1	7·60	<5	5	<20	5	10	
1140194	2187·5	11500	10	173	C					0	2	100	4	1			115	840	195	1	3·24	<5	5	<20	<5	20	
1140195	2175	11500	6·5		C					0	2	100	4	1			50	40	65	2	4·06	<5	5	<20	<5	20	
1140196	2162·5	11500	6		C					0	2	100	4	1			150	25	85	1	5·56	<5	2	<20	<5	20	
																	DETECTION LIMIT										
																	ANALYTICAL METHOD										
																	G001	G001	G001	G001	G001	G001	G010	G003	XRFIA	XRFIA	

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project: GOURLAYS CREEK AMG Zone

DPO's

Sample No's: 1140177 – 1140196

Sheet No

Laboratory: A.L.S. BRISBANE

Collected By: C J KENDALL Date: SEP 83

226025

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Mn	Mn Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140197	2150	11500	10·5		C					0	2	100	4	1			65	20	110	1	9·54	<5	5	<20	<5	10	
1140198	2137·5	11500	9		C					0	2	100	4	1			300	20	120	2	9·24	<5	<2	<20	<5	10	
1140199	2125	11500	10		C					0	2	105	4	1			220	25	75	1	3·38	<5	2	<20	<5	10	
1140200	2112·5	11500	9		C					0	2	105	4	1			3400	65	175	4	6·38	<5	2	<20	<5	<10	
1140201	[illegible]	1662·5	6		C					0	2						105	85	80	2	6·63	5	<2	20	15	10	
1140202		1650	5·5		C					0	2						160	50	65	3	9·69	<5	<2	<20	<5	<10	
1140203		1637·5	7		C					0	2						960	135	95	3	11·5	10	5	20	25	10	
1140204		1625	7·5		C					0	2						105	40	45	2	4·98	<5	2	<20	5	10	
1140205		1612·5	6		C					0	2						240	40	75	3	7·62	10	5	<20	115	10	
1140206		1600	4·5		C					0	2						40	55	95	3	5·56	5	<2	<20	55	<10	
1140207		1587·5	4·5		C					0	2						75	45	40	2	2·75	5	<2	<20	25	<10	
1140208		1575	7·5		C					0	2						330	75	80	3	10·1	10	<2	<20	35	10	
1140209		1562·5	4·5		C					0	2						95	25	35	2	5·22	15	<2	<20	<5	10	
1140210		1550	8·5		C					0	2						95	40	75	2	9·70	10	5	<20	5	<10	
1140211		1537·5	5		C					0	2						640	25	55	2	6·26	5	<2	<20	25	10	
1140212		1525	5·5		C					0	2						95	35	60	3	4·98	<5	<2	<20	70	<10	
1140213		1512·5	7		C					0	2						185	65	70	3	11·1	5	<2	<20	25	20	
1140214		1500	7·5		C					0	2						75	30	100	3	12·0	10	<2	<20	150	<10	
1140215		1487·5	1·5		C					0	2						60	20	25	3	9·60	15	2	<20	5	<10	
1140216		1475	1		C					0	2						65	20	20	2	7·56	10	<2	<20	10	<10	
DETECTION LIMIT																	1	1	1	0·1	0·01	5	2	20	5	10	
ANALYTICAL METHOD																	G001	G001	G001	G001	G001	G001	G010	G003	XRFM	XRFM	

SOIL DESCRIPTION | BEDROCK | METAL CONTENT ppm / % | Geological Observations

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project: GOURLAYS CREEK AMG Zone

OPO's

Sample No's: 1140197 - 1140216

Sheet No

Laboratory: A.L.S. BRISBANE.

Collected By: C J KENDALL Date: SEP 83

2260 26

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Min	Min Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
*1140217		1462·5	2							0	2						75	20	15	2	6·68	5	<2	<20	<5	10	
*1140218		1450	4		C					0	2						90	20	40	2	8·40	<5	<2	<20	15	<10	
1140219	2137·5	11300	10·5		C					0	2	105	4	1			1200	70	55	3	12·8	5	2	20	130	20	
1140220	2150	11300	13·5		C					0	2	8	9	1			60	110	440	2	8·62	5	<2	20	35	10	
1140221	2162·5	11300	5·5		C					0	2	105	9	1			150	30	40	2	4·95	<5	<2	<20	35	<10	
1140222	2175	11300	6		C					0	2	105	9	1			90	25	60	2	7·58	<5	<2	<20	10	<10	
1140223	2100	11500	12·5		C					0	2	105	4	1			600	70	230	3	9·88	<5	<2	<20	<5	<10	
1140224	2087·5	11500	11		C		90	8	2	0	2	14		1			160	45	160	2	9·11	<5	<2	20	<5	10	
1140225	2062·5	11500	17		C		90	8	2	0	2	14		1			35	30	80	2	6·79	<5	2	<20	5	10	
1140226	2050	11500	13		C					0	2	7	4	1			195	25	100	2	6·13	<5	5	20	<5	10	
1140227	2037·5	11500	16·5		B-C					0	2	7	4	1			75	30	110	2	9·50	5	2	20	<5	10	
1140228	2025	11500	13·5		C					0	2	14		1			660	20	75	2	8·11	<5	<2	20	5	20	
1140229	2012·5	11500	13·5		C					0	2	14		1			60	20	35	2	4·99	<5	2	<20	<5	10	
1140230	2000	11500	5		C					0	2	105	9	1			40	20	40	2	2·88	5	5	<20	<5	10	
1140231	2050	11400	7·5		C	1	10	39	50	0	2	105					85	30	230	2	5·41	<5	<2	<20	<5	<10	
1140232	2037·5	11400	4		C					0	2	100	4	1			1000	20	65	3	13·8	5	<2	<20	<5	<10	
1140233	2025	11400	7·5		C					0	2	9	9	1			540	20	70	3	11·3	5	<2	<20	<5	10	
1140234	2012·5	11400	3		C					0	2	105	9/4	1			60	20	35	2	6·93	<5	<2	<20	<5	10	
1140235	2000	11400	6							0	2	105	4	1			50	30	45	3	9·14	5	2	<20	<5	<10	
1140236	1987·5	11400	7		C					0	2	105	4	1			60	30	50	3	10·3	<5	5	<20	<5	<10	
DETECTION LIMIT																	G001	G001	G001	G001	G001	G001	G010	G003	XRFIA	XRFIA	

2260271

GEOCHEMICAL SOIL SAMPLING LEDGER

ANALYTICAL METHOD

Tenement Name

Area / Prospect

Map / Photo Ref

Project GOURLAYS CREEK AMG Zone

DPO's

Sample No's 1140217 – 1140236

Sheet No

Laboratory A.L.S. BRISBANE.

Collected By C J KENDALL Date NOV 83

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Min	Min Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140237	1975	11400	17		C					0	2	105	4/5	1			200	25	60	2	10·7	5	<2	<20	<5	<10	
1140238	1962·5	11400	18		C					0	2	105	9/12	1			45	45	75	3	8·81	5	5	<20	<5	10	
1140239	1950	11400	13·5		C					0	2	105	4	2	10		60	25	125	3	10·1	<5	<2	<20	<5	<10	
1140240	1937·5	11400	12		C	75	20	3	2	0	2	11		1			70	30	165	3	9·61	5	5	<20	<5	<10	
1140241	1925	11400	15		C					0	2	9		1			50	50	115	3	8·22	5	10	<20	<5	<10	
1140242	1912·5	11400	9		C					0	2	93	18	1			80	35	140	3	11·5	5	5	<20	<5	<10	
1140243	1900	11400	14		C					0	2	93	18	1			50	30	110	3	8·20	<5	5	<20	<5	<10	
1140244	2100	11400	8·5		C					0	2	11		1			85	40	130	1	6·03	<5	2	20	10	120	
1140245	2087·5	11400	10		C					0	2	10		3	10/90		0·34	45	230	2	3·47	<5	5	20	<5	760	
1140246	2075	11400	10·5		C					0	2						190	25	80	<1	4·82	<5	5	<20	<5	20	
1140247	2062·5	11400	12		C					0	2						110	30	65	1	7·33	<5	5	<20	<5	30	
1140248	1750	11300	9		C					0	2	11		1			75	95	145	2	11·3	<5	2	<20	<5	40	
1140249	1762·5	11300	9		B-C					0	2	105	4	1			80	35	190	2	11·5	<5	5	<20	<5	110	
1140250	2100	11400								0	2						50	80	105	1	18·0	<5	2	<20	5	10	Alluvial pannings
1140251	1775	11300	10·5		C					1	2	105	4	1			65	55	160	1	11·1	<5	5	<20	<5	60	
1140252	1787·5	11300	11·5		B					1	2	11		1			70	35	155	2	10·5	<5	2	<20	<5	30	
1140253	1800	11300	10·5		B					1	1	8	9	1			60	30	140	2	8·76	<5	2	<20	<5	10	
1140254	1812·5	11300	11		B					1	2	8	4	1			75	35	160	1	10·8	<5	5	<20	<5	10	
1140255	1850	11300	20		C					1	2	105	4	1			65	25	155	2	10·1	<5	2	<20	<5	10	
1140256	1862·5	11300	20		C					1	2	105	4	1			55	25	115	1	9·19	<5	5	<20	<5	10	
DETECTION LIMIT																	1	1	1	1	0·01	5	2	20	5	10	
ANALYTICAL METHOD																	G001	G001	G001	G001	G001	G001	G010	G003	XRF1A	XRF1A	

2260028

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project GOVRLAYS CREEK AMG Zone

DPO's

Sample No's 1140237 – 1140256

Sheet No

Laboratory A.L.S. BRISBANE

Collected By C J KENDALL Date NOV 82

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	SOIL DESCRIPTION: Co-ordinates AMG / Grid East	North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	BEDROCK: Rock Type	Alteration	Vis Min	Min Type	LOOK	METAL CONTENT ppm / %: Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140257	1875	11300	16·5		C					1	2	105	9	1			110	15	55	1	9·48	<5	5	<20	<5	10	
1140258	1900	11300	9		C					1	2	93	18	1			145	10	85	1	6·79	<5	2	<20	<5	10	
1140259	1925	11300	2		C					1	2	105	4	1			170	10	40	1	11·0	<5	2	<20	<5	<10	
1140260	1937·5	11300	1		C					1	2	105	4	1			60	5	25	1	3·47	<5	2	<20	<5	10	
1140261	1950	11300	3·5		C					1	2	105	4	1			20	15	50	1	5·67	<5	2	<20	<5	20	
1140262	1962·5	11300	7·5		C					1	2	105	4	1			35	25	80	1	6·98	<5	2	<20	<5	20	
1140263	1975	11300	10·5		C					2	2	105	9	1			40	10	50	1	5·93	<5	2	<20	<5	10	
1140264	1987·5	11300	4·5		C					1	2	9	9	1			60	20	35	1	3·95	<5	2	<20	<5	10	
1140265	2000	11300	5		C					1	2	8	9	1			70	10	55	2	4·53	<5	2	<20	<5	10	
1140266	2012·5	11300	4·5		C					1	2	8	9	1			50	15	55	<1	10·7	<5	5	<20	<5	10	
1140267	2025	11300	4·5		C					1	2	93	18	1			60	15	55	1	9·02	<5	5	<20	5	10	
1140268	2700	11100	18		C					1	2	10		2	10		50	25	80	1	5·72	<5	2	<20	<5	10	
1140269	2687·5	11100	20		C					1	2	10		2	10		50	35	95	1	6·98	<5	5	<20	<5	10	
1140270	2675	11100	20·5		C					1	2	10		2	10		45	45	90	2	7·06	<5	2	<20	<5	<10	
1140271	2662·5	11100	20·5		C					1	2	9		1			50	50	115	1	5·89	<5	2	<20	<5	10	
1140272	2650	11100	18·5		C					1	2	14		1			55	30	165	1	10·1	<5	2	<20	<5	<10	
1140273	2637·5	11100	19		C					1	2	93	18	1			50	30	140	1	10·3	<5	2	<20	<5	<10	
1140274	2625	11100	20·5		B/C					1	2	93	18	1			50	25	100	1	7·78	<5	5	<20	<5	10	
1140275	2612·5	11100	12		B/C					1	2	93	18	1			105	25	115	2	16·8	<5	5	<20	<5	<10	
1140276	2600	11100	15		C					1	2	10		1			135	30	60	1	3·72	<5	5	<20	5	20	
DETECTION LIMIT																	1	1	1	1	0·01	5	1	20	5	10	
ANALYTICAL METHOD																	6001	6001	6001	6001	6001	6001	6010	6003	XRF1A	XAF1A	

226029

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project GOURLAYS CREEK AMG Zone

DPO's

Sample No's: 1140257 - 1140276

Sheet No

Laboratory

Collected By C J KENDALL Date Nov 83

029

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Min	Min Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140277	2587·5	11100	10		B/C												50	20	95	1	9·84	<5	<2	<20	<5	10	Sample not found
1140278	2575	11100	6		C					1	2	93	18	1			90	20	160	2	13·2	<5	<2	<20	<5	<10	
1140279	2562·5	11100	7·5		C					1	2	93	18	1			90	20	350	2	9·3	<5	2	<20	<5	<10	
1140280	2550	11100	6		C					1	2	93	18	1			100	20	230	2	13·7	<5	5	<20	<5	<10	
1140281	2525	11100	7·5		C					1	2	93	18	1			60	20	190	1	9·28	<5	2	<20	<5	<10	
1140282	2500	11100	10·5		C					1	2	100	9	1			60	20	145	1	8·92	<5	5	<20	<5	<10	
1140283	2487·5	11100	17·5		C					1	2	105	4	1			60	30	150	2	9·58	<5	5	<20	20	10	
1140284	2475	11100	20·5		C					1	2	105	9	1			25	25	95	1	3·62	<5	2	<20	5	20	
1140285	2462·5	11100	17·5		C					1	2	105	9	1			60	20	75	1	3·64	<5	2	<20	<5	20	
1140286	2450	11100	12		C					1	2	105	9	1			60	35	140	1	5·92	<5	5	<20	25	20	
1140287	2437·5	11100	15		C					1	2	105	9	1			50	30	135	1	4·94	<5	5	<20	<5	20	
1140288	2425	11100	9		C					1	2	14		1			80	30	240	2	11·9	<5	5	<20	<5	<10	
1140289	2412·5	11100	13·5		C					1	2	93	18	1			70	25	105	1	6·52	<5	5	<20	<5	<10	
1140290	2400	11100	10·5		C					1	2	9		2	10		145	30	90	1	11·5	<5	5	80	50	<10	
1140291	2387·5	11100	6		C					1	2	105	9	1			125	50	90	1	11·5	<5	5	20	270	20	
1140292	2375	11100	10·5		C					1	2	9		1			50	30	75	1	4·12	<5	2	<20	15	10	
1140293	2362·5	11100	6		C					1	2	9		1			50	30	50	<1	4·92	<5	2	20	5	10	
1140294	2350	11100	6		C					1	2	9		1			75	35	95	2	6·76	<5	5	20	35	10	
1140295	2337·5	11100	6		C					1	2	93	18	1			150	85	115	2	11·7	<5	5	<20	485	<10	
1140296	2325	11100	3		C					1	2	93	18	1			50	25	35	<1	4·72	<5	5	<20	35	10	

030

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	SOIL DESCRIPTION: Co-ordinates AMG / Grid East	North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	BEDROCK: Rock Type	Alteration	Vis Min	Min Type	LOOK	METAL CONTENT ppm / %: Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140297	2312·5	11100	2		C					1	2	9	9	1			130	25	50	1	4·62	<5	5	<20	5	10	
1140298	2300	11100	4		C					1	2	93	18	1			35	35	90	1	9·62	<5	2	<20	775	10	
1140299	2287·5	11100	6		C					1	2	93	18	1			60	30	20	2	9·56	<5	2	<20	40	10	
1140300	2275	11100	12		C					1	2	105	4	2	90		60	45	195	1	11·6	<5	2	<20	<5	10	
1140301	2262·5	11100	7·5		C					1	2	105	4	2	90		120	15	115	1	7·66	<5	2	<20	330	20	
1140302	2250	11100	4·5		C					1	2	93	18	1			170	30	50	2	10·7	<5	5	<20	965	<10	
1140303	2237·5	11100	10	125	C					1	2	100	4	1			460	30	60	2	6·3	<5	5	<20	280	10	
1140304	2225	11100	4·5	255	C					1	2	100	4	1			340	30	105	2	15·1	<5	2	<20	0·20%	30	
1140305	2212·5	11100	3		C												90	125	740	2	9·46	<5	5	<20	40	10	
1140306	2200	11100	6	255	C					1	2	100	4	1			300	30	105	2	11·0	<5	5	<20	15	<10	
1140307	2187·5	11100	4	235	C					1	2	105	4	1			200	20	115	2	9·82	<5	5	<20	<5	<10	
1140308	2175	11100	7·5	285	C					1	2	93	18	1			145	20	70	2	14·3	<5	5	<20	<5	<10	
1140309	2162·5	11100	10·5	293	C					1	2	9	9	1			840	20	150	3	11·9	<5	5	<20	15	10	
1140310	2150	11100	7·5	285	B/C					1	2	93	18	1			95	20	85	2	11·0	<5	5	<20	<5	<10	
1140311	2137·5	11100	10·5	175	C					1	2	105	9	1			320	15	80	2	7·42	<5	5	<20	<5	10	
1140312	2125	11100	7·5	175	C					1	2	105	9	1			30	20	80	1	5·14	<5	5	<20	<5	10	
1140313	2112·5	11100	7·5	175	C					1	2	105	4	1			75	20	85	1	5·08	<5	5	<20	<5	10	
1140314	2100	11100	20·5	375	C					1	2	100	15	1			85	20	80	1	10·2	<5	5	<20	10	20	
1140315	2087·5	11100	20·5	255	C					1	2	105	9	1			50	20	80	1	7·84	<5	5	<20	<5	10	
1140316	2075	11100	9		B/C												290	25	110	2	13·6	<5	2	<20	<5	10	
DETECTION LIMIT																	0·001	0·001	0·001	0·001	0·01	0·01	0·01	0·03	XRFN	XRFN	
ANALYTICAL METHOD																											

2260031

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project GOURLAYS CREEK AMG Zone

DPO's

Sample No's 1140297 - 1140316

Sheet No

Laboratory ALS BRISBANE

Collected by C J KENDALL Date Nov 83

031

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis Min	Min Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140317	2062.5	11100	20.5	125	C					1	2	100	18	1			135	20	80	2	13.0	<5	5	<20	<5	20	
1140318	2050	11100	10.5	235	C					1	2	105	4	1			100	20	55	<1	4.67	<5	2	5	<5	<10	
1140319	2037.5	11100	6	133	C					1	4	11		1			70	15	60	3	8.29	<5	10	<1	<5	<10	
1140320	2025	11100	3	235	C					1	2	105	9	1			40	15	40	2	9.01	<5	10	<1	<5	10	
1140321	2012.5	11100	4.5	275	C					1	2	93	18	1			100	10	30	2	4.7	<5	10	4	<5	10	
1140322	2000	11100	7.5	123	C					1	2	8	4	2	10		380	10	80	<1	6.19	<5	5	5	<5	<10	
1140323	1987.5	11100	10.5	123	C					1	2	8	4	2	10		45	15	75	1	6.69	<5	5	<1	<5	<10	
1140324	1975	11100	13.5	334	C					1	2	100		1			60	15	110	2	9.03	<5	2	<1	<5	<10	
1140325	1962.5	11100	15	375	C					1	2	105	9	1			35	15	55	1	7.62	<5	5	<1	<5	<10	
1140326	1950	11100	13.5	133	C					1	2	100	18	1			70	15	150	2	11.5	<5	2	<1	<5	<10	
1140327	1937.5	11100	10.5	133	C					1	2	100	18	1			60	15	140	2	9.92	<5	10	<1	<5	<10	
1140328	1925	11100	10.5	133	C					1	2	100	18	1			15	10	70	1	4.09	<5	10	4	<5	<10	
1140329	1912.5	11100	7.5	133	C					1	2	100	18	1			80	15	125	2	11.5	<5	5	<1	<5	<10	
1140330	1900	11100	9	285	C					1	2	93	18	1			90	15	135	2	13.5	<5	5	<1	5	<10	
1140331	1887.5	11100	7.5	285	C					1	2	93	18	1			30	20	85	2	8.87	<5	5	<1	5	10	
1140332	1875	11100	10.5	285	C					1	2	93	18	1			45	40	105	2	7.2	<5	5	<1	<5	10	
1140333	1862.5	11100	13.5	225	C					1	2	100	4	1			50	20	145	1	9.28	<5	2	115	<5	<10	
1140334	1850	11100	1.5		C												250	45	70	2	19.6	<5	5	<1	25	<10	
1140335	1837.5	11100	6	293	C					1	2	105	4	1			10	15	30	1	406	<5	10	3	10	<10	
1140336	1825	11100	4.5	285	C					1	2	93	18	1			80	25	50	1	6.1	<5	5	<1	<5	<10	
DETECTION LIMIT																	0.001	0.001	0.001	0.001	0.01	0.001	0.01	0.001	XRF 10	XRF 10	
ANALYTICAL METHOD																											

2260332

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project GOURLAYS CREEK AMG Zone

DPO's

Sample No's 1140317 - 1140336

Sheet No

Laboratory ALS BRISBANE

Collected By C J KENDALL Date Nov 83

Updated June 1983

032

TASMANIA

CRA EXPLORATION PTY. LTD.

S

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min.	Min. Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140337	1812.5	11100	6	375	C					1	2	105	4	1			110	30	70	2	10.5	<5	10	<1	<5	<10	
1140338	1800	11100	4.5	285	C					1	2	93	18	1			35	15	60	2	4.98	<5	2	1	<5	10	
1140339	1787.5	11100	2	375	C					1	2	100	9	1			25	15	40	1	4.03	<5	<2	<1	95	10	
1140340	1775	11100	1.5	235	C					1	2	100	4	1			55	25	85	2	5.69	<5	5	<1	5	<10	
1140341	1762.5	11100	6	135	C					1	2	11	12	1			145	15	35	<1	2.96	<5	5	4	40	30	
1140342	1750	11100	2	235	C					1	2	105	9	1			260	35	45	<1	4.95	<5	<2	22	<5	20	
1140343	1737.5	11100	2	235	C					1	2	105	9	1			65	15	40	1	3.63	<5	5	16	<5	10	
1140344	1725	11100	2	235	C					1	2	105	9	1			95	15	30	1	3.04	<5	2	<1	<5	<10	
1140345	2060	11230	4.5		C												540	40	60	3	28.5	<5	5	105	<5	10	
1140346	2040	11240	1.5		C												210	15	25	2	10.3	<5	5	12	<5	20	
1140347	2025	11235	1.5		C												115	25	20	1	6.78	<5	<2	7	5	<10	
1140348	2012	11235	1.5		C												50	15	20	1	2.82	<5	5	1	<5	10	
1140349	2000	11225	1		C												230	15	15	1	7.56	<5	<2	<1	<5	<10	
1140350	1990	11210	1.5		C												35	10	10	<1	2.36	<5	5	3	<5	20	
1140351	1980	11205	3		C												145	20	15	2	7.26	<5	5	2	<5	20	
1140352	1970	11200	3.5		C												25	15	20	1	6.85	<5	2	<1	<5	10	
1140353	1960	11190	3		C												220	15	25	<1	4.67	<5	2	2	<5	10	
1140354	1950	11185	7.5		C												210	25	65	1	9.18	<5	5	26	150	10	
1140355	1940	11180	4.5		C												370	30	35	1	4.88	<5	<2	8	75	10	
1140356	1930	11175	4.5		C												380	40	30	2	8.73	<5	2	5	<5	<10	
																	G001	G001	G001	G001	G001	G001	G010	G004	XRFIA	XRFIA	

2202 2203

GEOCHEMICAL SOIL SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD

Tenement Name

Project GOURLAYS CREEK AMG Zone

Sheet No

Area / Prospect

DPO's

Laboratory ALS BRISBANE

Map / Photo Ref.

Sample No's 1140337 - 1140356

Collected By C J KENDALL Date Nov 83

Updated June 1983

033

TASMANIA

CRA EXPLORATION PTY. LTD.

S

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min.	Min. Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140357	1920	11160	2		C												70	30	25	2	8.15	<5	<2	1	<5	<10	
1140358	1910	11155	2		C												65	30	25	1	6.79	<5	<2	1	<5	<10	
1140359	1900	11150	2		C												50	30	30	1	4.55	<5	<2	2	<5	<10	
1140360	1890	11147	2		C												40	30	30	1	4.26	<5	2	2	<5	<10	
1140361	1880	11135	4.5		C												390	30	80	2	6.03	<5	5	24	<5	10	
1140362	1865	11130	6		C												40	30	70	1	4.82	<5	5	4	<5	10	
1140363	1855	11125	8.5		C												30	45	80	2	6.16	<5	5	6	<5	20	
1140364	1845	11120	7.5		C												40	30	95	1	5.07	<5	5	10	50	20	
1140365	1830	11115	4.5		C												105	30	40	1	4.30	<5	2	4	<5	10	
1140366	1820	11110	7.5		C												40	40	90	1	5.74	<5	<2	8	5	20	
1140367	1810	11113	9		C												70	45	90	1	5.28	<5	5	5	<5	10	
1140368	1800	11110	3		C												40	30	55	1	4.02	<5	<2	3	10	<10	
1140369	1790	11095	1.5		C												300	20	45	1	3.96	<5	2	<1	5	<10	
40370	1780	11088	1		C												100	20	15	1	1.55	<5	2	4	<5	10	
1140371	1770	11080	3		C												100	20	55	1	5.39	<5	5	2	<5	20	
1140372	1745	11070	3		C												50	35	80	2	11.2	<5	5	75	35	10	
1140373	1730	11065	3		C												145	25	65	1	3.08	<5	5	1	75	20	
1140374	1720	11060	3		C												50	25	60	1	4.86	<5	<2	7	15	10	
1140375	1710	11055	7.5		C												65	30	30	1	5.28	<5	5	2	20	30	
1140376	1700	11050	9		C												45	30	45	1	6.95	<5	<2	8	45	20	
DETECTION LIMIT																	0.001	0.001	0.001	0.001	0.01	0.01	0.01	0.004	XRFIA	XRFIA	
ANALYTICAL METHOD																											

2260034

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project GOURLAYS CREEK AMG Zone

DPO's

Sample No's: 1140357 - 1140376

Sheet No

Laboratory ALS BRISBANE

Collected By CJKENDALL Date NOV 83

TASMANIA

CRA EXPLORATION PTY. LTD.

S

Sample Number	Co-ordinates AMG / Grid East	Co-ordinates AMG / Grid North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min.	Min. Type	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Bi ppm	Mo ppm	As ppm	Sn ppm	W ppm	Geological Observations
1140377	1690	11040	4·5		C												60	20	50	1	4·68	<5	2	1	25	20	
1140378	1680	11035	4·5		C												2	20	50	1	7·28	<5	5	9	<5	20	
1140379	1665	11030	3		C												390	15	80	1	6·71	<5	5	4	<5	<10	
1140380	2100	10900	12	273	B					1	2	100	4	1			75	25	120	3	12·7	<5	<2	2	<5	<10	
1140381	2112·5	10900	13	273	B					1	2	100	4	1			70	30	130	3	12·0	<5	5	5	<5	<10	
1140382	2125	10900	12	273	B					1	2	100	4	1			75	25	140	3	12·4	<5	5	<1	<5	<10	
1140383	2150	10900	13·5	273	C					1	2	100	4	1			50	20	110	2	7·63	<5	5	<1	<5	<10	
1140384	2162·5	10900	6	285	C					1	2	93	18	1			90	20	130	3	12·7	<5	5	<1	<5	10	
1140385	2175	10900	9	273	C					1	2	100	4	1			100	20	135	3	13·0	<5	5	<1	<5	<10	
1140386	2187·5	10900	12	273	C					1	2	100	4	1			75	20	100	1	7·43	<5	10	<1	<5	20	
1140387	2200	10900	8	273	C					1	2	100	4	1			80	15	90	<1	7·66	<5	2	1	10	<10	
1140388	2212·5	10900	9	285	C					1	2	93	18	1			70	20	90	<1	12·1	<5	2	<1	10	<10	
1140389	2225	10900	7·5	285	C					1	2	93	18	1			80	15	80	<1	7·14	<5	2	<1	<5	<10	
1140390	2237·5	10900	3	273	C					1	2	100	4	1			65	10	65	1	6·27	<5	2	<1	<5	<10	
1140391	2250	10900	13·5	273	C					1	2	100	4	1			70	25	120	1	14·5	<5	2	<1	40	<10	
1140392	2275	10900	15	273	C					1	2	100	4	1			50	25	150	<1	9·96	<5	2	<1	10	10	
1140393	2286·5	10900	15	273	C					1	2	100	4	1			55	25	180	1	10·7	<5	2	<1	<5	<10	
1140394	2300	10900	9	235	C					1	2	100	9	1			105	55	400	1	12·7	<5	2	5	35	<10	
1140395	2312·5	10900	7·5	235	C					1	2	100	9	1			75	25	90	<1	6·22	<5	2	4	5	<10	
1140396	2325	10900	10·5	235	C					1	2	100	9	1			50	40	85	2	5·94	<5	2	18	5	<10	
GEOCHEMICAL SOIL SAMPLING LEDGER												DETECTION LIMIT					G001	G001	G001	G001	G001	G001	G010	G004	XRFIA	XRFIA	
												ANALYTICAL METHOD															

Tenement Name

Area / Prospect

Map / Photo Ref

Project: GOURLAYS CREEK

DPD's

Sample No's: 1140377 - 1140396

AMG Zone

Sheet No

Laboratory: ALS BRISBANE

Collected By: CJ KENDALL Date: Nov 83

2260333

035

TASMANIA

CRA EXPLORATION PTY. LTD.

S

Sample Number	SOIL DESCRIPTION											BEDROCK					METAL CONTENT ppm / %										Geological Observations
	Co-ordinates AMG / Grid		Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min.	Min. Type	LOOK	Cu	Pb	Zn	Ag	Fe	Bi	Mo	As	Sn	W	
	East	North																									
1140397	2337·5	10900	6	253	E												185	20	50	<1	5·65	<5	5	8	10	10	Sample not found.
1140401	2550	11000	26	334	E					2	2	9	4	2	10		760	25	75	2	3·63	<5	10	12	<5	10	
1140402	2537·5	11000	12	155	4 B/C					2	2	100	18	1			80	25	220	3	11·4	<5	<2	<1	<5	<10	
1140403	2525	11000	13	155	B					2	2	93	18	1			220	30	190	2	6·26	<5	<2	7	<5	20	
1140404	2512·5	11000	13·5	155	B					2	2	100	9	1			75	30	190	2	9·52	<5	5	<1	5	20	
1140405	2500	11000	18	125	B					2	2	100	9	1			45	25	50	1	1·55	<5	5	5	<5	10	
1140406	2500	11000	18	125	B					2	2	100	9	1			50	5	60	0·5	1·55	x	x	6	x	x	
1140407	2487·5	11000	12	135	B					2	2	100	15	1			40	25	45	1	1·96	<5	5	8	10	10	
1140408	2475	11000	13	135	B					2	2	100	9	1			100	20	65	1	3·12	<5	10	24	<5	10	
1140409	2462·5	11000	9	123	B					2	2	100	9	1			310	30	65	1	4·64	<5	5	26	<5	10	
1140410	2450	11000	12	234	B					2	2	100	9	1			75	25	70	1	4·30	<5	5	27	<5	10	
1140411	2437·5	11000	11	233	B					2	2	100	9	1			70	30	80	1	6·27	<5	<2	40	<5	10	
1140412	2425	11000	15	243	B					2	2	100	9	1			155	30	60	1	4·25	<5	<2	40	15	20	
1140413	2412·5	11000	15	135	B					2	2	100	9	1			95	40	130	2	6·20	<5	<2	16	5	<10	
1140414	2400	11000	6	152	B					2	2	100	9	1			50	40	90	2	12·2	<5	<2	24	335	<10	
1140415	2387·5	11000	8	255	B					2	2	100	9	1			50	45	220	1	10·2	<5	<2	9	185	<10	
1140416	2387·5	11000	8	255	B					2	2	100	9	1			90	25	270	X	9·00	x	x	12	163	x	
1140417	2375	11000	8	175	E					1	4	1	1	1			560	55	230	3	10·6	<5	<2	<1	1000	20	
1140418	2362·5	11000	6	175	B					2	2	100	9	1			175	140	170	2	11·6	<5	<2	7	205	20	
1140419	2350	11000	12	175	B					2	2	100	9	1			95	50	80	1	6·23	<5	<2	9	75	10	
																	2	5	2	1	0·01	5	2	1	5	10	
GEOCHEMICAL SOIL SAMPLING LEDGER												DETECTION LIMIT															
												ANALYTICAL METHOD					Goo1	Goo1	Goo1	Goo1	Goo1	Coo1	Goo1	Goo4	XRF	XRF	

2260039

Tenement Name

Area / Prospect GOURLAYS CREEK

Map / Photo Ref.

Project GOURLAYS CREEK AMG Zone

DPD's 31876

Sample No's 1140397

Sheet No

Laboratory A.L.S. BRISBANE

Collected By C. J. KENDALL Date NOV 83

036

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	SOIL DESCRIPTION: Co-ordinates AMG / Grid East	North	Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	BEDROCK: Rock Type	Alteration	Vis. Min.	Min. Type	LOOK	METAL CONTENT ppm / %: Cu	Pb	Zn	Ag	Fe	Bi	Mo	As	Sn	W	Geological Observations
1140420	2337·5	11000	13	345	E					2	2	105	3	1			460	75	150	2	14·7	<5	<2	1	425	20	
1140421	2325	11000	9	275	E					2	2	105	15	1			110	40	220	1	6·02	<5	<2	2	105	20	
1140422	2312·5	11000	10	125	E					2	2	100	9	1			40	30	130	1	3·58	<5	<2	3	<5	10	
1140423	2300	11000	9	135	E					2	2	100	9	1			145	35	240	2	4·04	<5	5	4	5	10	
1140424	2287·5	11000	7	133	E					2	2	100	4	1			85	30	110	1	2·62	<5	2	1	<5	20	
1140425	2275	11000	5	285	E					2	2	100	18	1			5200	45	145	5	17·9	<5	5	22	205	10	
1140426	2275	11000	5	285	E					2	2	100	18	1			4600	20	205	0·5	21·8	X	10	25	242	16	ANALABS
1140427	2262·5	11000	7	275	E					2	2	105	4	1			600	40	130	2	7·37	<5	2	3	5	<10	
1140428	2250	11000	9	173	E					2	2	105	4	1			100	90	190	2	7·79	<5	<2	<1	<5	<10	
1140429	2225	11000	15	235	S					2	2	105	9	1			200	25	100	<1	8·49	<5	2	<1	5	<10	
1140430	2212·5	11000	18	235	S					2	2	105	9	1			125	30	120	1	11·2	<5	2	<1	10	<10	
1140431	2200	11000	19	255	S					2	2	100	4	1			75	30	120	1	9·21	<5	5	<1	10	<10	
1140432	2187·5	11000	17	255	S					2	2	100	4	1			105	20	120	1	8·95	<5	2	<1	<5	<10	
1140433	2175	11000	18	135	S												60	15	100	<1	5·51	<5	2	<1	<5	<10	No Sample found
1140434	2162·5	11000	16	255	A					2	2	93	18	1			120	30	90	<1	14·0	<5	2	<1	5	<10	
1140435	2150	11000	16	255	A					2	2	100	18	1			80	30	180	<1	12·8	<5	2	<1	<5	<10	
1140436	2150	11000	16	255	A					2	2	100	18	1			535	15	155	X	7·65	X	X	9	34	X	ANALABS
1140437	2125	11000	16	255	S					2	2	93	18	1			70	25	105	<1	12·5	<5	2	<1	<5	<10	
1140438	2100	11000	14	345	A					2	2	100	13	1			50	25	120	<1	9·16	<5	2	<1	<5	<10	
1140439	2700	10900	17	134	S					2	2	8	9	1			50	25	110	<1	3·67	<5	2	<1	20	<10	
																	2	5	2	1	0·01	5	2	1	5	10	DETECTION LIMIT
																	Gool	Gool	Gool	Gool	Gool	Gool	Gool	Coda	XRF	XRF	ANALYTICAL METHOD

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name

Area / Prospect

Map / Photo Ref

Project Courlay's Creek AMG Zone

OPO's 3187 7

Sample No's 1140420 - 1140439

Sheet No

Laboratory ALS BRISBANE

Collected By C.J. KENDALL Date Nov 83

22603

Updated June 1985

037

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	SOIL DESCRIPTION											BEDROCK				LOOK	METAL CONTENT ppm / %										Geological Observations
	Co-ordinates AMG / Grid		Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min.	Min. Type		Cu	Pb	Zn	Ag	Fe	Bi	Mo	As	Sn	W	
	East	North																									
1140440	2687·5	10900	15	234	5					1	2	100 120	9	1			140	160	300	<1	5·83	<5	2	12	<5	10	
1140441	2675	10900	19	255	5					2	2	105	4	1			40	25	120	<1	9·23	<5	2	<1	5	<10	
1140442	2662·5	10900	22	344	5					1	2	105	4	2	10		30	40	180	<1	3·52	<5	2	1	10	<10	
1140443	2650	10900	17	234	5					1	2	105	4/9	1			20	25	115	<1	3·62	<5	2	<1	<5	<10	
1140444	2637·5	10900	15	334	5					2	2	104	9	1			40	20	80	1	4·96	<5	5	4	5	<10	
1140445	2625	10900	15	334	5					2	2	8/104	9	1			40	50	120	1	4·02	<5	2	4	5	<10	
1140446	2625	10900	15	334	5					2	2	8/104	9	1			146	35	120	X	3·80	X	X	11	X	X	ANALABS
1140447	2612·5	10900	20	334	5					2	2	105	4	1			40	20	90	1	2·98	<5	2	<1	<5	<10	
1140448	2600	10900	22	255	5					1	1	100	9	1			60	40	150	<1	5·54	<5	2	18	<5	<10	
1140449	2587·5	10900	18	135	5					2	2	10					80	30	80	<1	4·02	<5	2	14	30	10	
1140450	2575	10900	14	233	5					1	2	105	9	1			90	20	95	<1	3·53	<5	2	<1	20	10	
1140451	2562·5	10900	14	143	5					1	2	105	9	1			50	30	115	<1	4·03	<5	2	4	10	10	
1140452	2550	10900	13	334	5					1	2	105	9	1			70	25	200	<1	5·31	<5	2	4	<5	10	
1140453	2537·5	10900	20	123	5					1	2	105	9	1			45	30	90	<1	2·89	<5	5	<1	<5	<10	
1140454	2525	10900	15	123	5					1	2	100	4	1			50	30	110	<1	3·61	<5	5	<1	<5	10	
1140455	2512·5	10900	13	235	5					1	2	100	4	1			40	20	80	<1	2·24	<5	2	<1	<5	<10	
1140456	2512·5	10900	13	235	5					1	2	100	4	1			50	5	90	0·5	1·85	X	X	3	4	4	ANALABS
1140457	2500	10900	10	273	5					1	2	105	9	1			45	40	140	<1	5·95	<5	2	7	<5	10	
1140458	2487·5	10900	10	273	5					1	2	100	4	1			80	20	80	<1	4·38	<5	5	16	<5	<10	
1140459	2475	10900	9	173	5					1	2	105	9	1			100	90	170	<1	4·82	<5	5	10	10	<10	
																	DETECTION LIMIT										
																	2	5	2	1	0·01	5	2	1	5	10	
																	ANALYTICAL METHOD										
																	Gool	Gool	Gool	Gool	Gool	Gool	Gool	Gool	XRF	XRF	

GEOCHEMICAL SOIL SAMPLING LEDGER

Tenement Name Rocky Cape

Area / Prospect

Map / Photo Ref

Project Gourlay's Creek AMG Zone

DPO's 31877

Sample No's 1140440 - 1140459

Sheet No

Laboratory ALS BRISBANE

Collected By C. J. KENDALL Date Nov 83

2260038

Updated June 1983

038

TASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	SOIL DESCRIPTION											BEDROCK				LOOK	METAL CONTENT ppm / %										Geological Observations
	Co-ordinates AMG / Grid		Depth (m)	Colour	Horizon	% Rock	% Sand	% Silt	% Clay	Organic	Soil Type	Rock Type	Alteration	Vis. Min.	Min. Type		Cu	Pb	Zn	Ag	Fe	Bi	Mo	As	Sn	W	
	East	North																									
1140460	2462·5	10900	6	343	5					1	2	100	4	1			70	30	60	<1	4·75	<5	2	5	15	<10	
1140461	2450	10900	10	125	5					1	2	100	4	1			100	50	140	<1	4·46	<5	5	3	5	<10	
1140462	2437·5	10900	6	233	5					1	2	100	4	1			440	30	135	<1	4·50	<5	5	<1	5	<10	
1140463	2425	10900	10	273	5					1	2	100	4	1			270	30	160	1	4·90	<5	5	4	5	<10	
1140464	2412·5	10900	7	125	5					1	2	100	4	1			55	70	110	1	4·83	<5	5	<1	590	<10	
1140465	2400	10900	8	255	5					1	2	105	9	1			160	35	140	<1	7·88	<5	5	30	180	<10	
1140466	2400	10900	8	255	5					1	2	105	4	1			190	20	160	X	7·75	X	10	33	201	X	ANALABS.
1140467	2387·5	10900	9	233	5					1	2	105	9	1			70	30	140	1	4·96	<5	5	12	15	<10	
1140468	2375	10900	10	255	5					1	2	105	9	1			95	30	120	1	7·01	<5	2	14	40	<10	
1140469	2362·5	10900	16	125	5					1	2	105	9	1			40	20	35	<1	2·72	<5	5	1	5	10	
1140470	2350	10900	15	125	5					1	2	105	9	1			400	30	80	1	7·34	<5	5	18	25	<10	

2260039

GEOCHEMICAL SOIL SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD

Tenement Name: Rocky Cape

Project: Gourlays Creek AMG Zone:

Sheet No:

Area / Prospect:

DPO's: 31877

Laboratory: ALS BRISBANE

Map / Photo Ref:

Sample No's: 1140460 - 1140470

Collected By: C.J. KENDALL Date: NOV 83

039

226040

UTEM PROFILES FOR LOOP 1 (11000 - 11600N)

040

226041

UTEM PROFILES FOR LOOP 2 (1160 - 12000N)

041

226042

GEOPHYSICAL EXPLORATION CONSULTANTS PTY. LTD.

Suite 106, 104 Mount Street, Heidelberg, Victoria 3084 Telephone (03) 459 0533

29th February, 1984.

Mr. J. Sumpton,
Geopeko,
Old Coast Road,
QUOIBA, via Devonport,
TAS, 7310

Dear John,

Gourlay's Creek Utem Survey

I have taken a fairly detailed look at the eastern most Utem anomaly in the Gourlay's Creek Utem data. Upon your suggestion, I've concentrated on the zone around line 11,100N.

In general, the Utem data outlines and resolves the main conductivity features quite well, as we found during our recent review at your office. I've summarized the significant anomalous features on the enclosed Gourlay's Creek geological plan. The wide Utem conductive zones correlate well with those evident in the dipole-dipole I.P. pseudosections and there is clear evidence of a NNW strike emerging - this correlates fairly well with the geology.

The main Utem conductor in the loop 1 area trends from around line 11000N, 2375E to line 11700N, 2150E. It is seen in the data as a broad late time Hz' cross-over with some apparent migration at late time. It is continuous throughout the loop 2 grid.

On line 11,100N, there is evidence that the conductive zone is composite at shallow depth - two thin conductive units are present, at 2337E and 2387E respectively, as evidenced by the superimposed sharp, rapidly decaying inflections in the early-time data (top axis). A plot of the peak-to-trough decay for the late time anomaly is shown in attachment 1 together with the decay of the best-fit model ("an infinite dyke"). The decay of the anomaly is fairly well determined and its characteristic time suggests a conductance in the order of 23 siemens.

2/..

Assuming that the source is thin, geometric depth estimates lie in the range 75 to 125 metres, based on the characteristics of the anomaly profile shape. However, the inductive limit of the decay (attachment 1) has a value of 135 per cent which is consistent with a depth in the range 45 to 60 metres. This lower estimate is possibly symptomatic of a large thickness (greater than 50m?) of the conductive zone and this ties in with the suggestion from the late time cross-over migration that the conductive zone is fairly thick.

Thus, to summarize, the suggested cause of the eastern Utem conductor around line 11100N is a conductive zone at least 50 metres wide, some 50 metres deep and possibly extending near surface where it splits into composite shallow units. (My earlier "eye-ball" suggestion that the zone is greater than 100 metres deep was probably incorrect). A diamond drill hole to 100-150 metres below 2375E would be an adequate test of the zone.

I've enclosed explanatory notes on the Utem profile data presentation as well as on the Utem system, to give you extra background.

Please don't hesitate to telephone me if you'd like to discuss any further aspects.

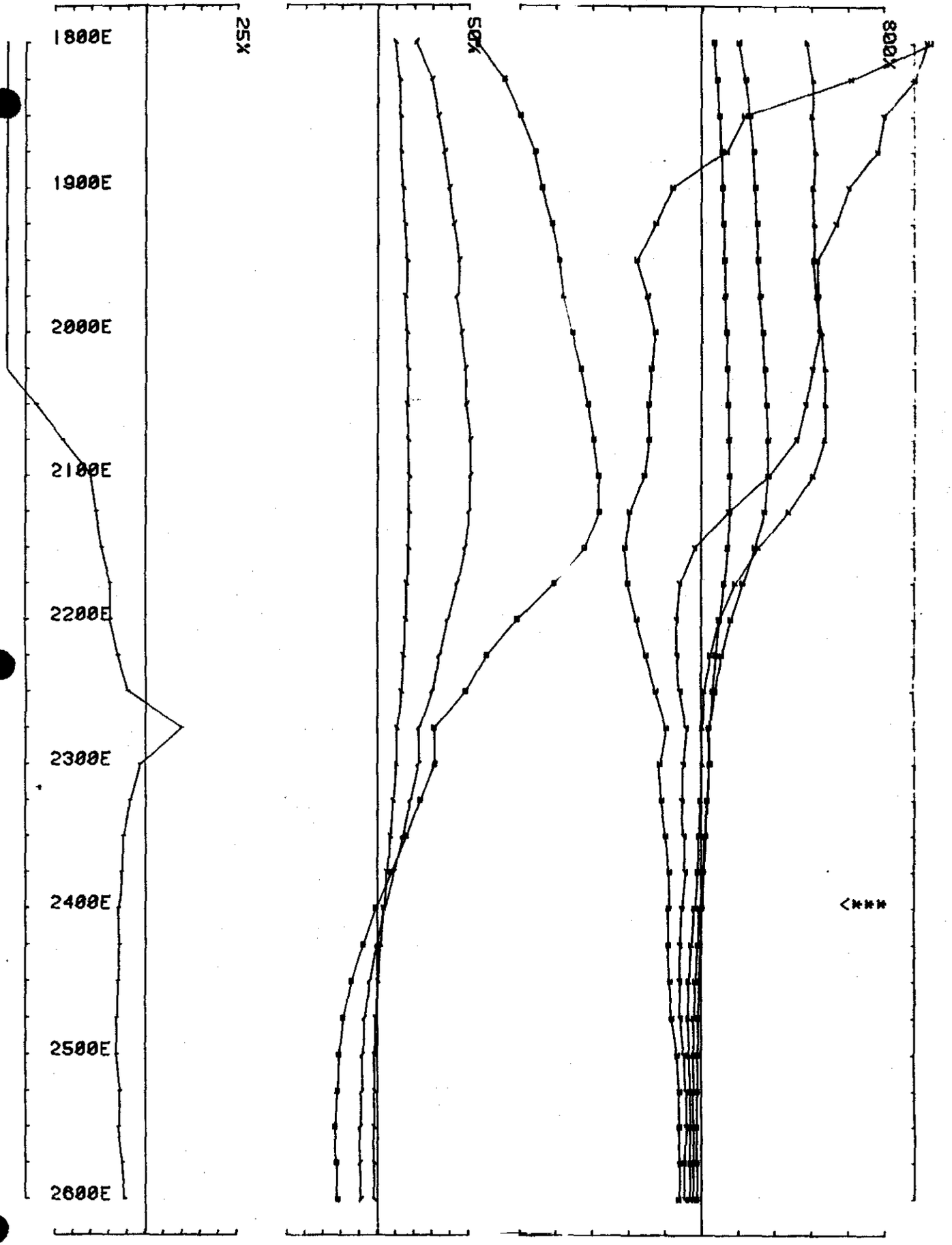
Kindest regards.

Yours sincerely,

Guido Staltari

GUIDO STALTARI
CONSULTANT GEOPHYSICIST.

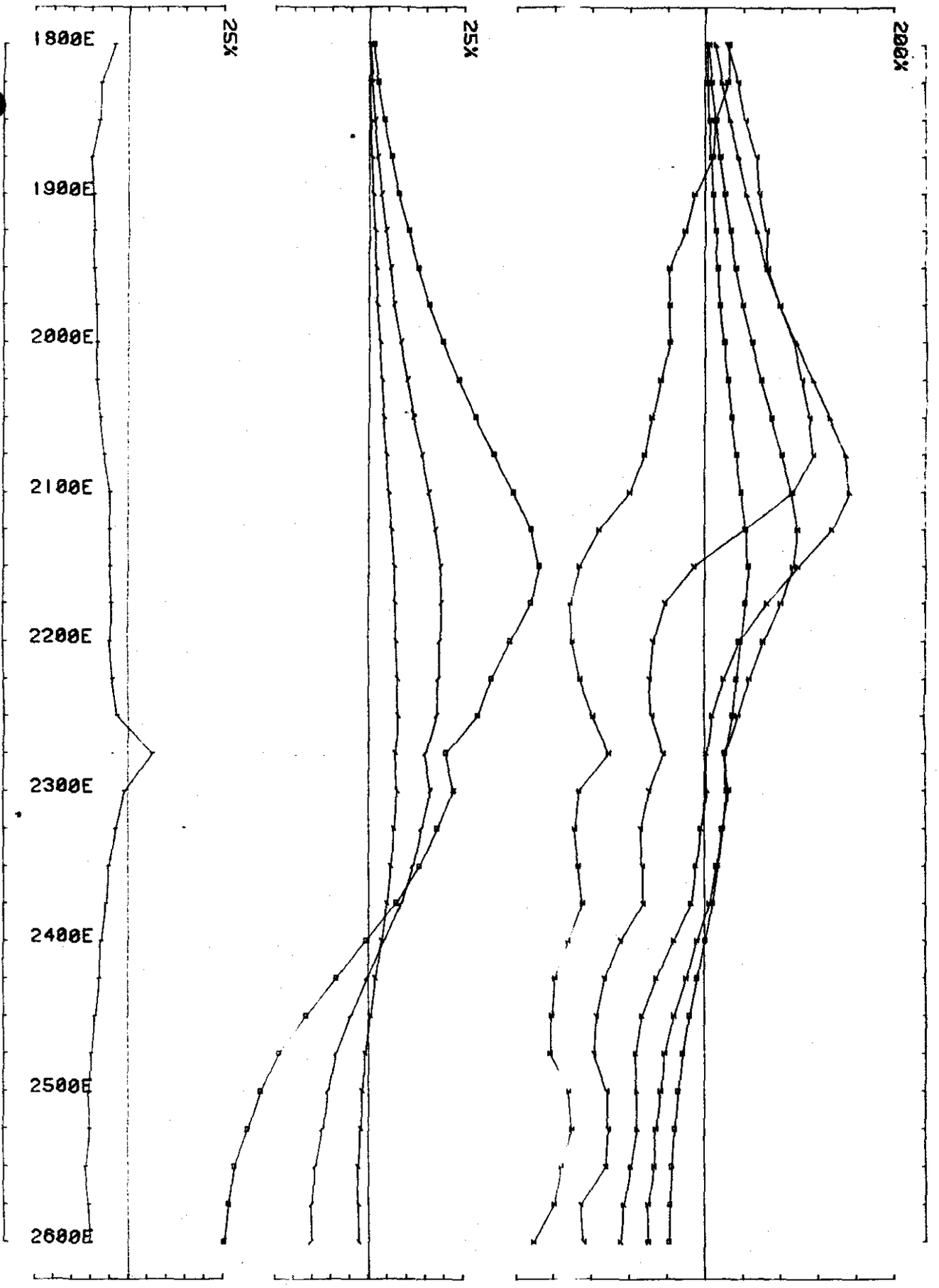
GS/bg
enc: att 1, 2 and 3



UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11000N component Hz secondary Ch. 1



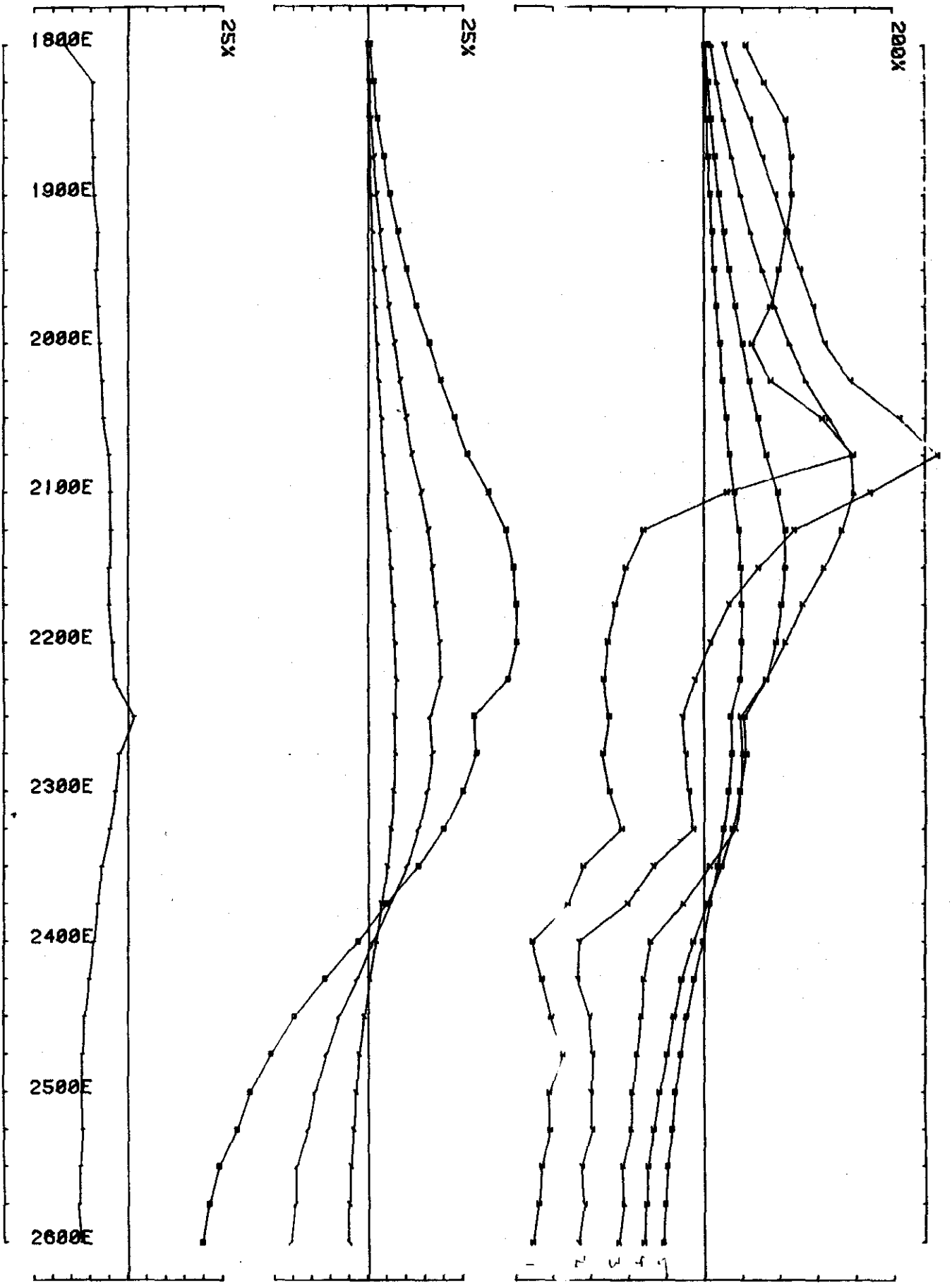
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11000N component Hz secondary Ch 1

045

226046



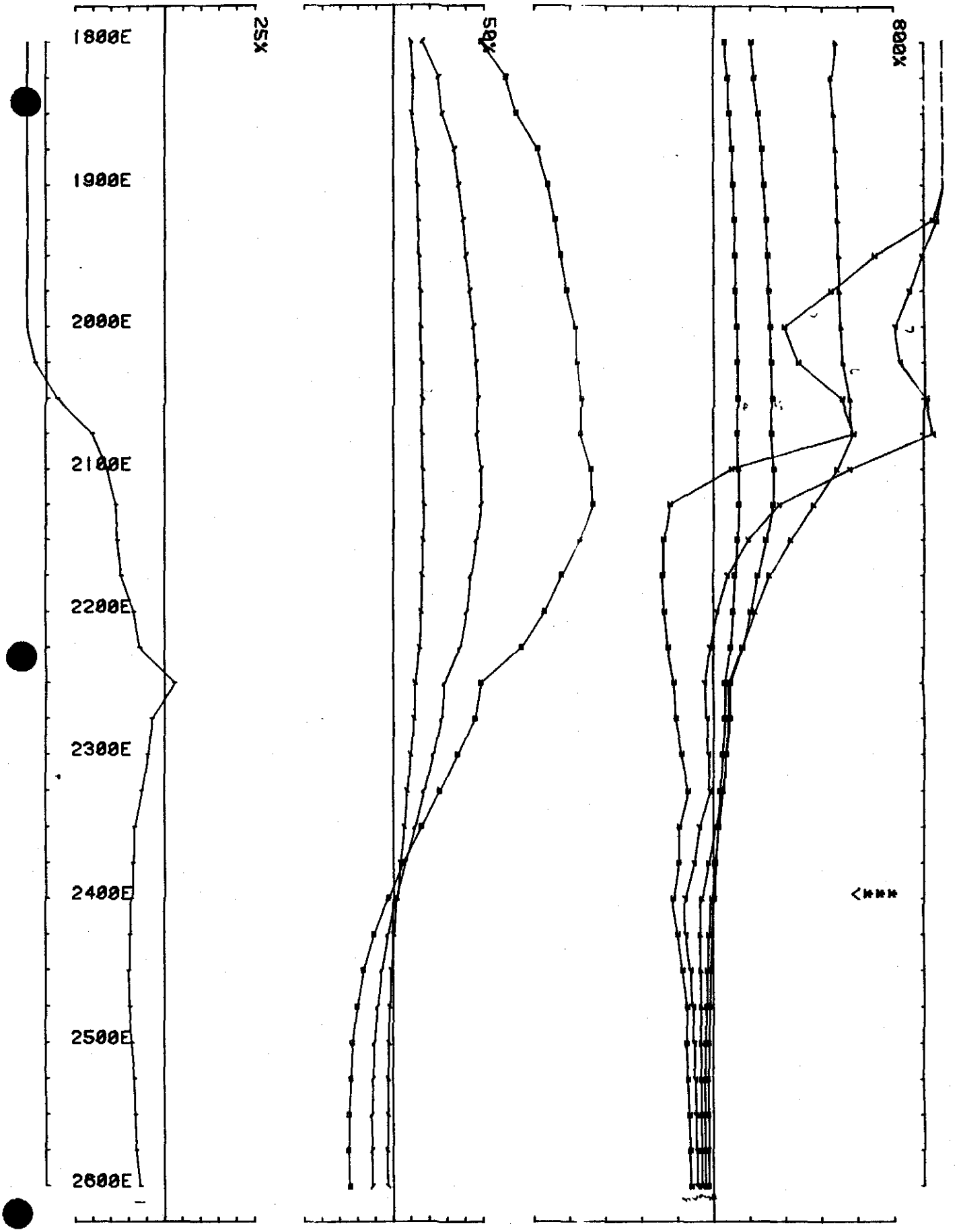
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlaya Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11100N component Hz secondary Ch 1

046

226047



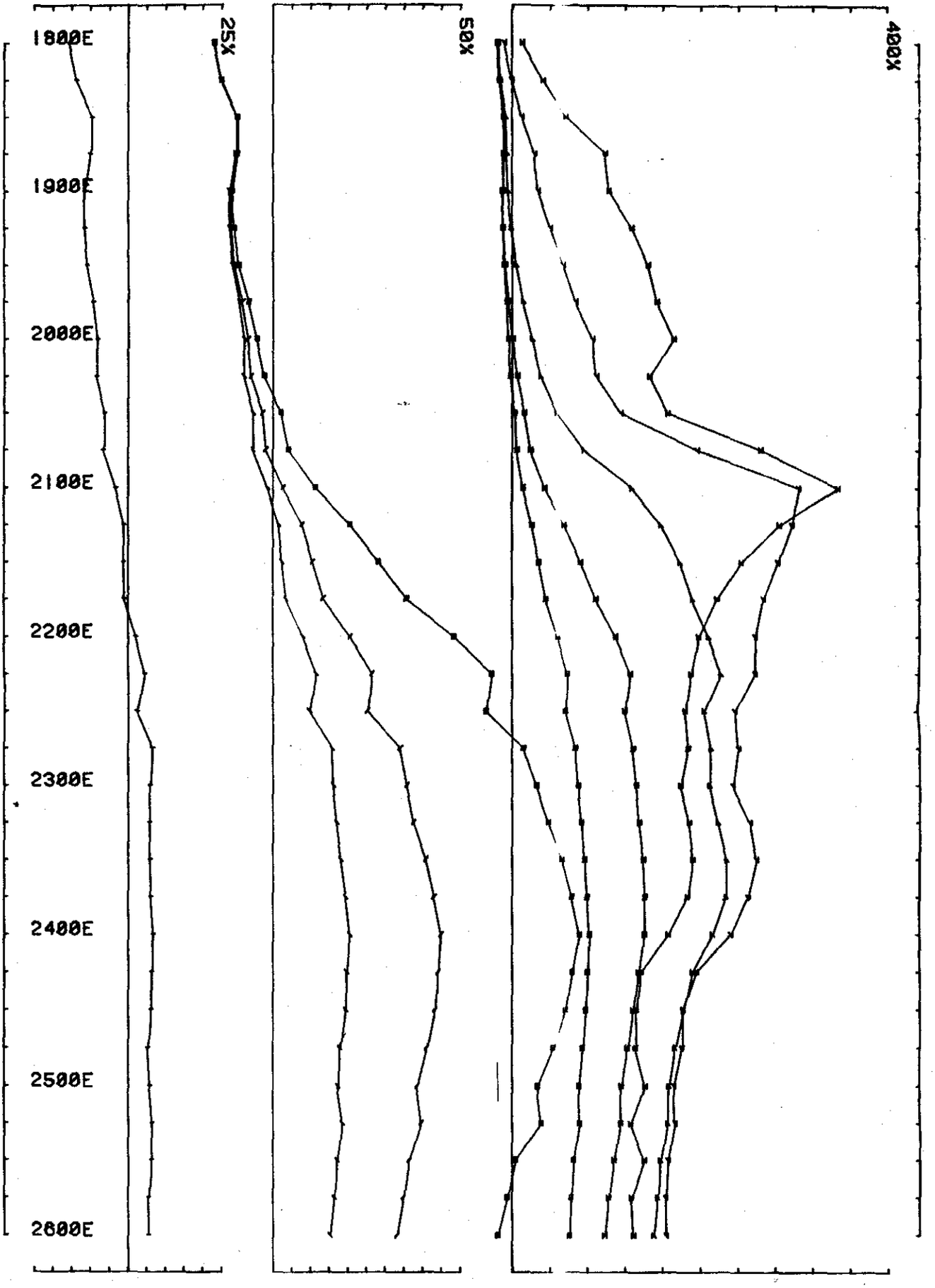
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11100N component Hz secondary Ch. 1

047

226048



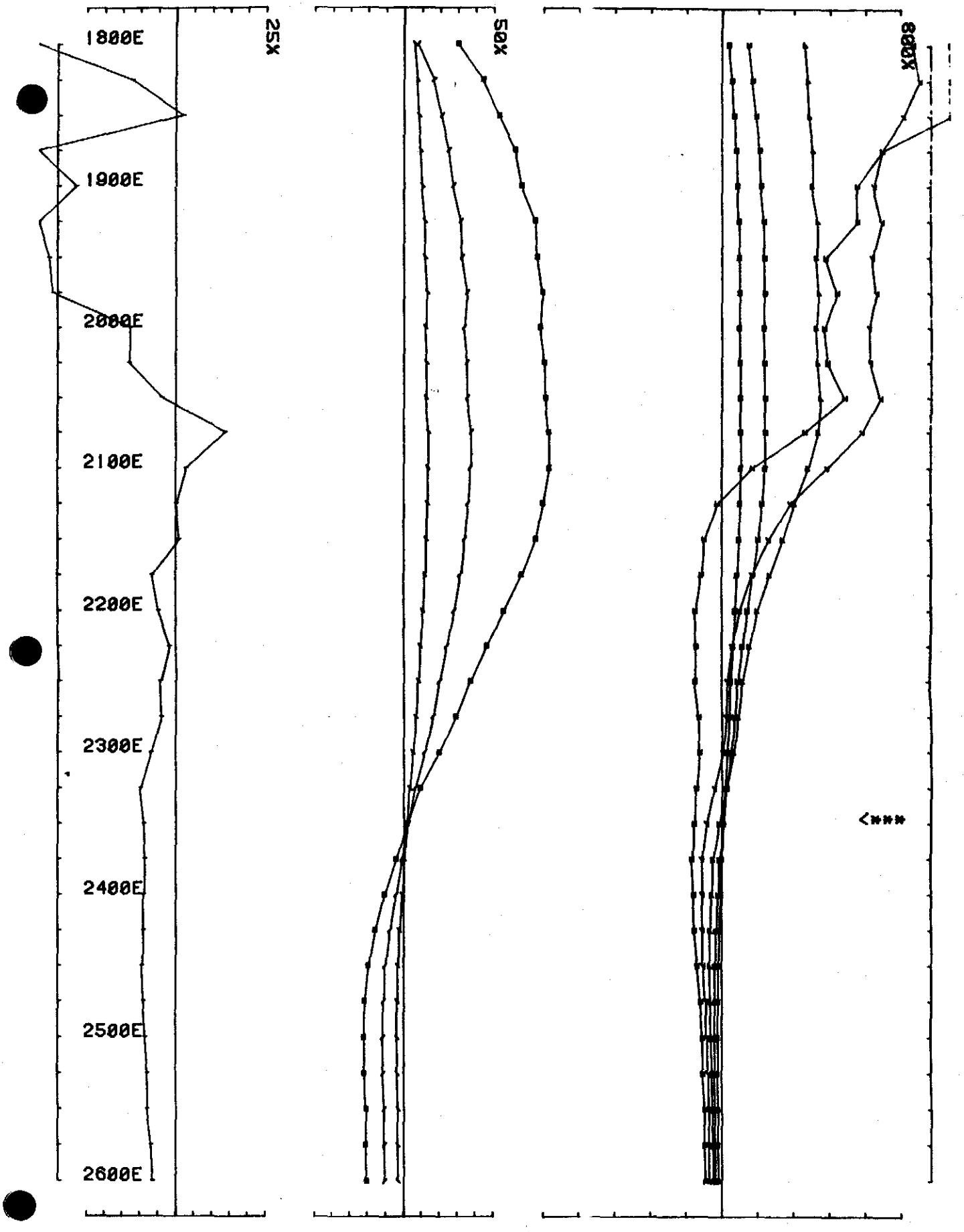
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11100N component Hx total Ch 1

048

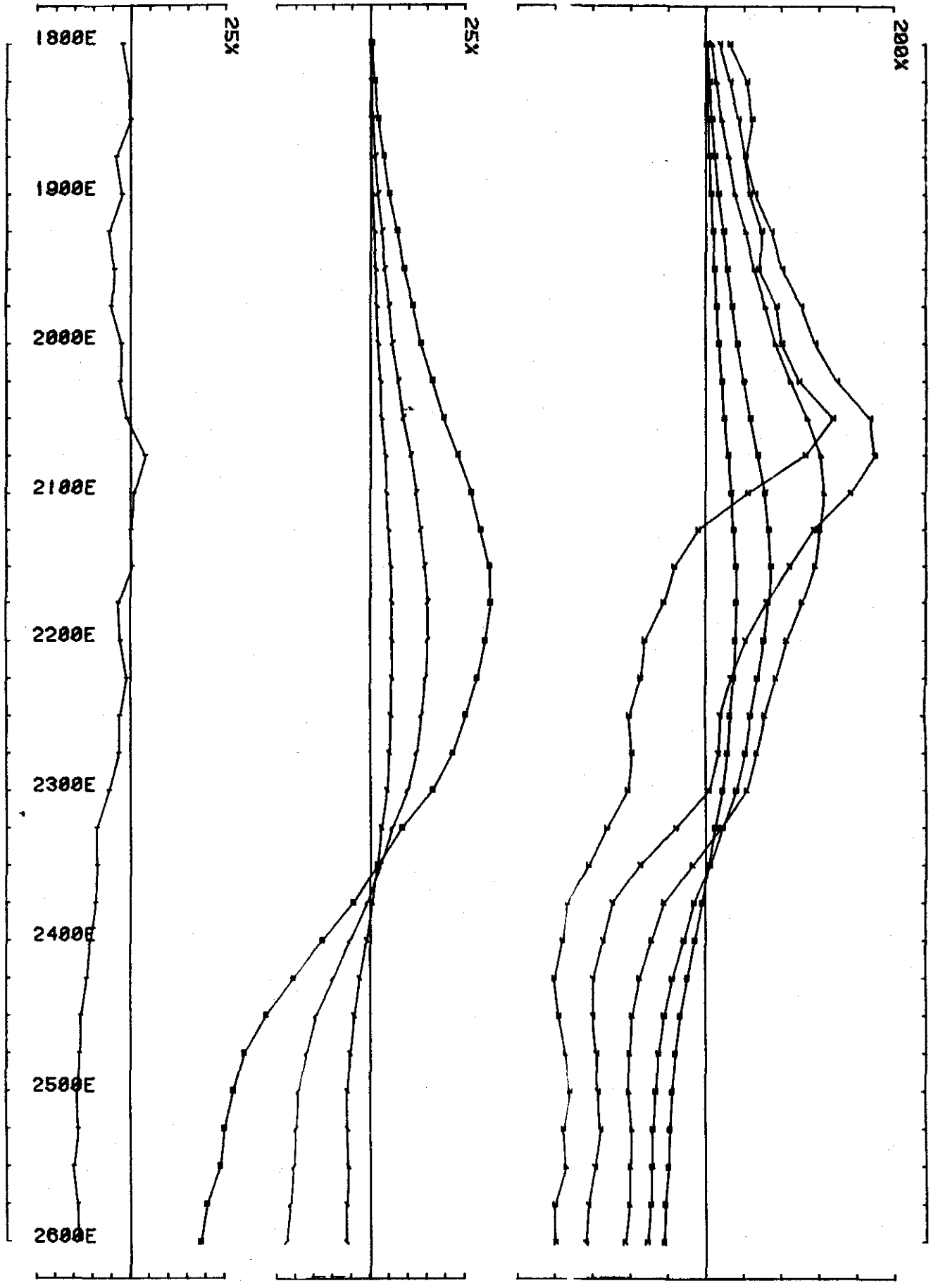
226049



UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

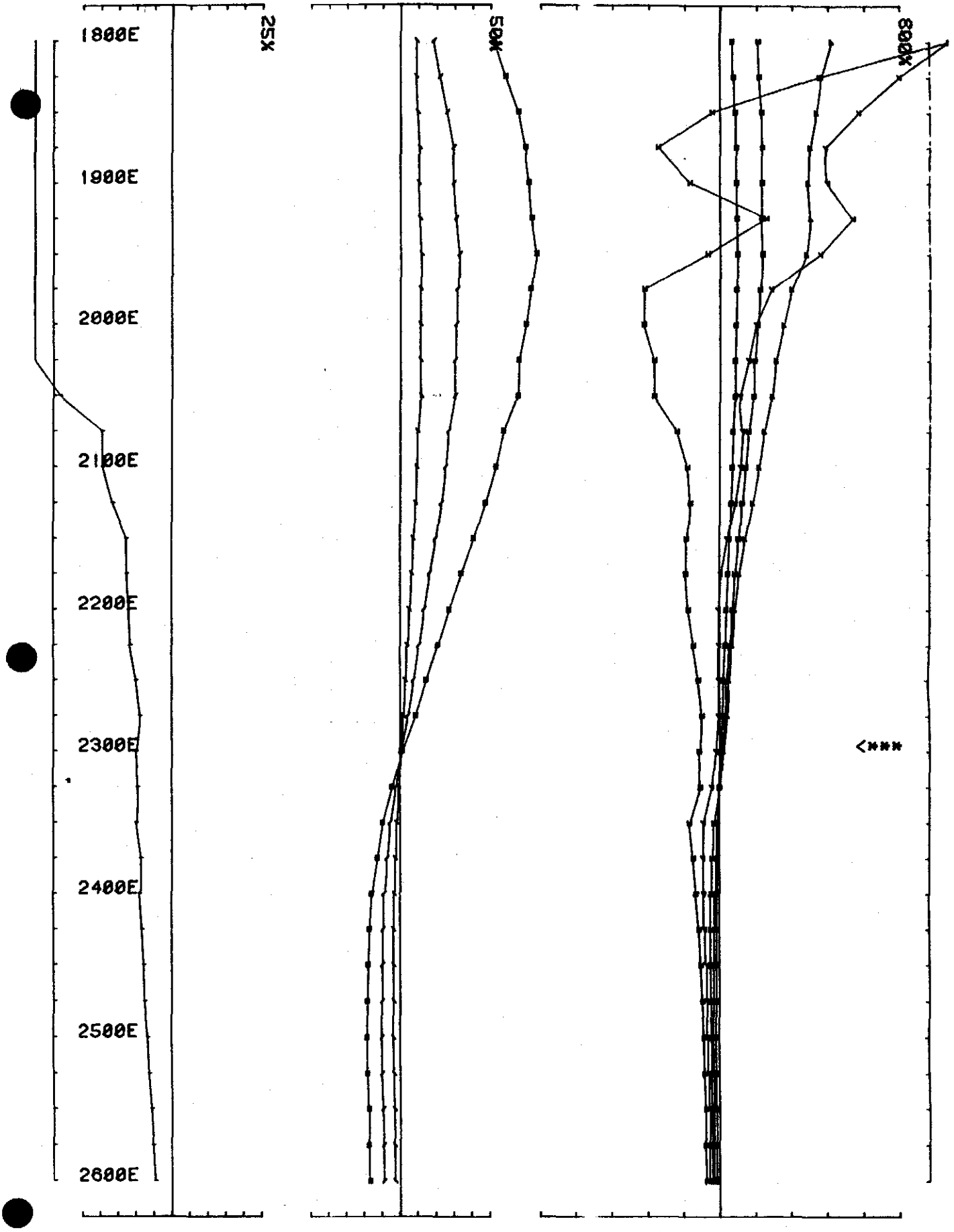
Loopno 0101 Line 11200N component Hz secondary Ch 1



UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlaya Creek Survey for GEOPEKO freq(hz) 26.230

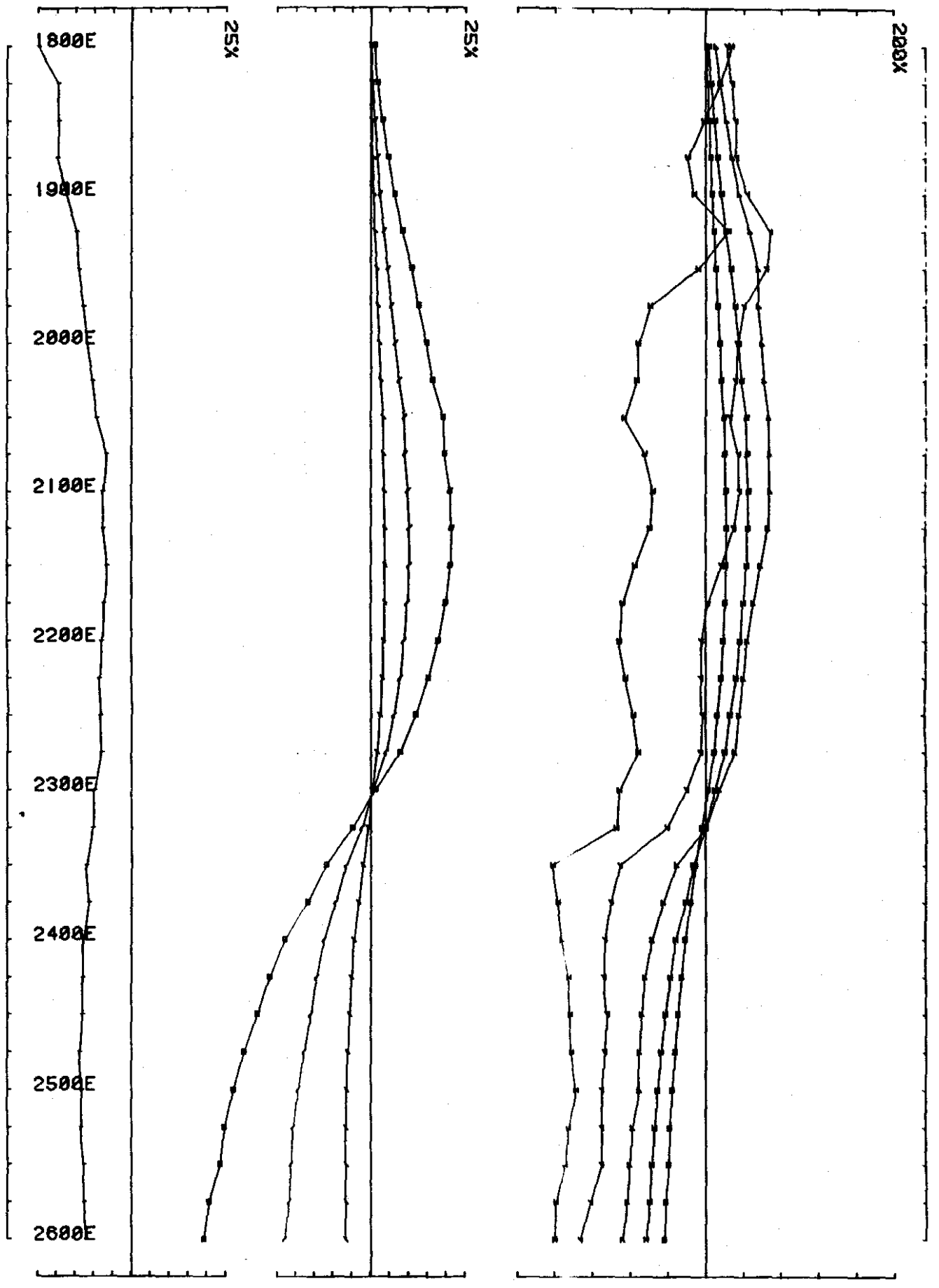
Loopno 0101 Line 11200N component Hz secondary Ch 1



UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11300N component Hz secondary Ch 1



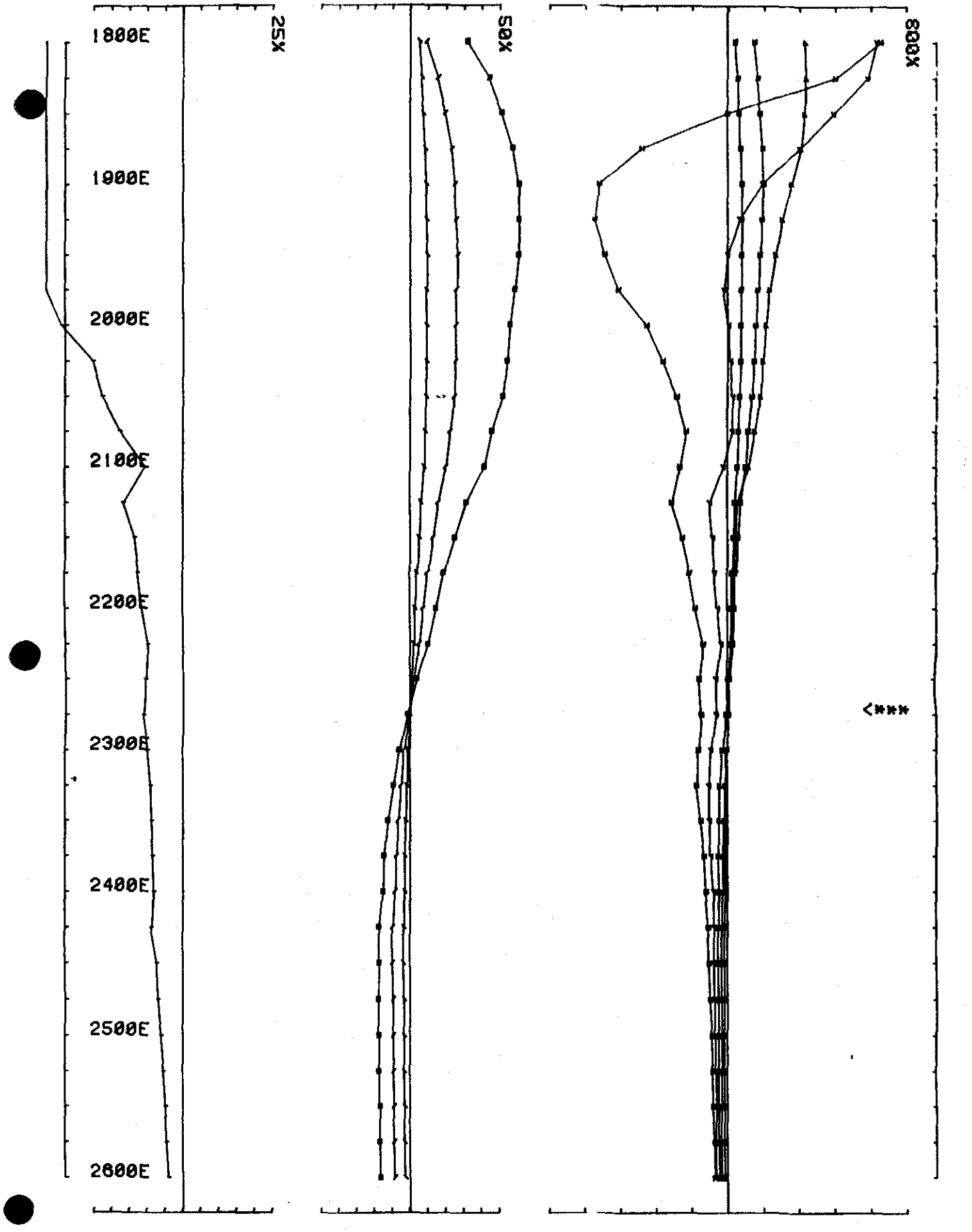
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11300N component Hz secondary Ch. 1

052

226053



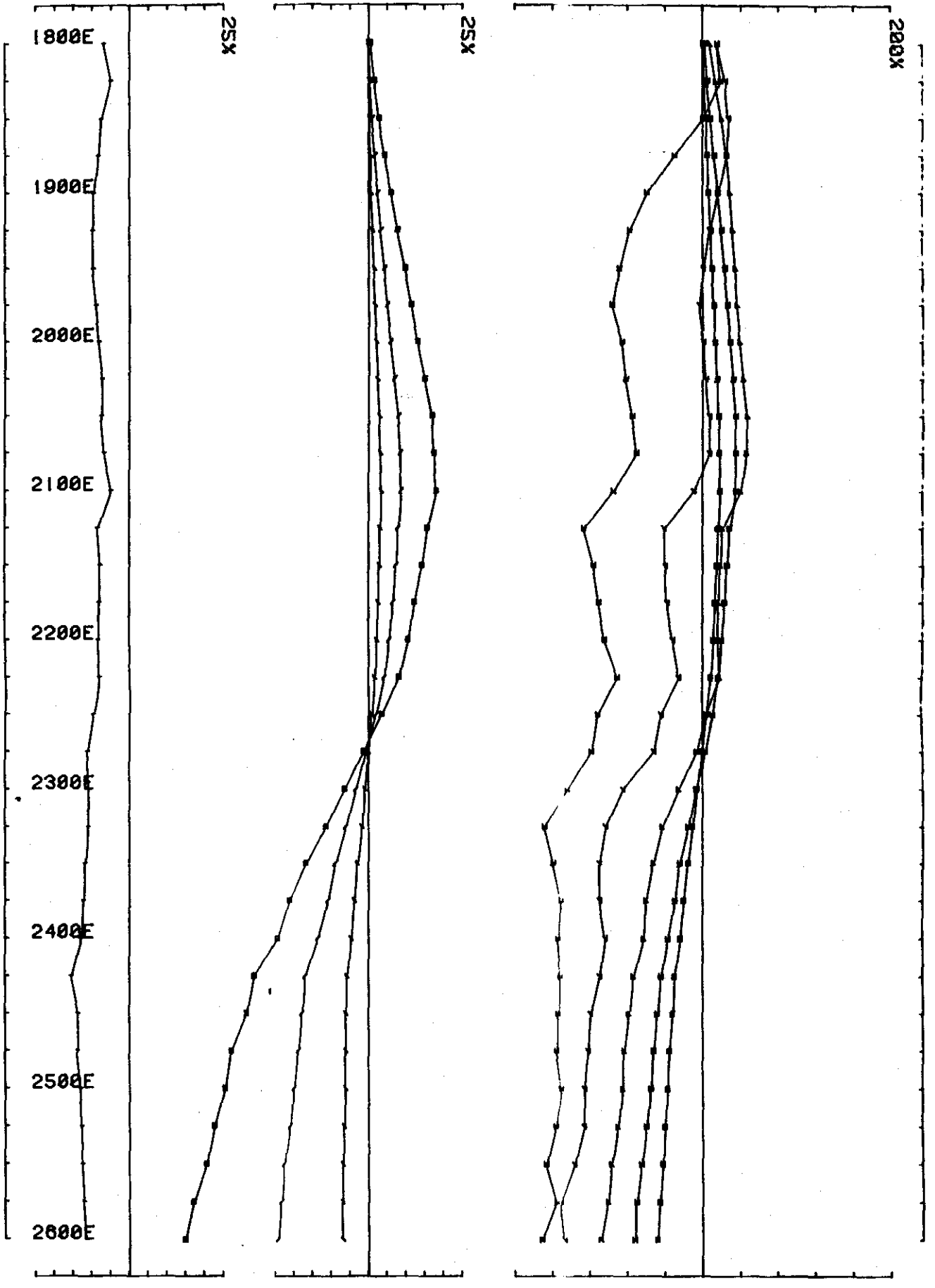
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11400N component Hz secondary Ch 1

053

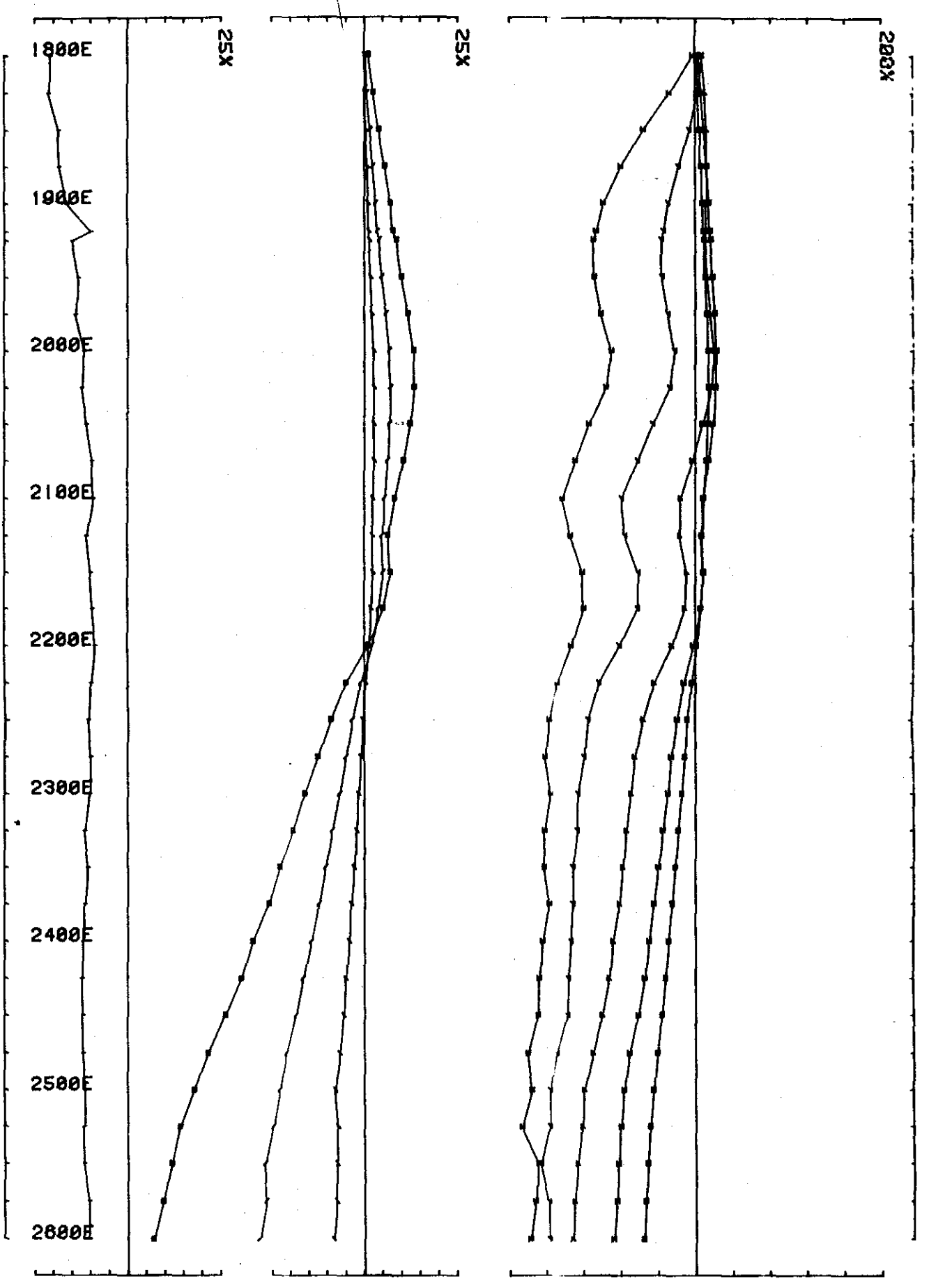
226054



UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11400N component Hz secondary Ch 1



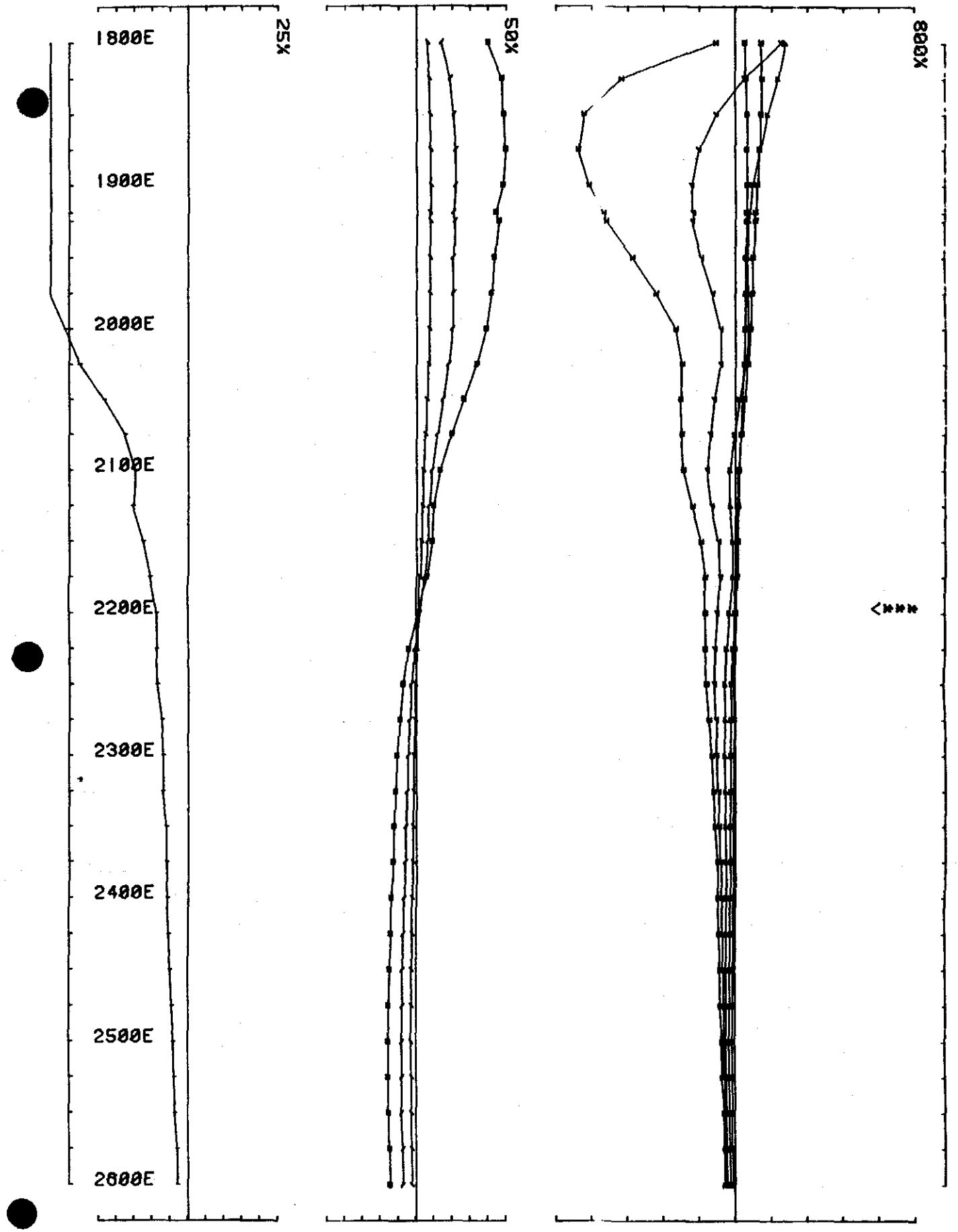
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11500N component Hz secondary Ch 1

055

226056



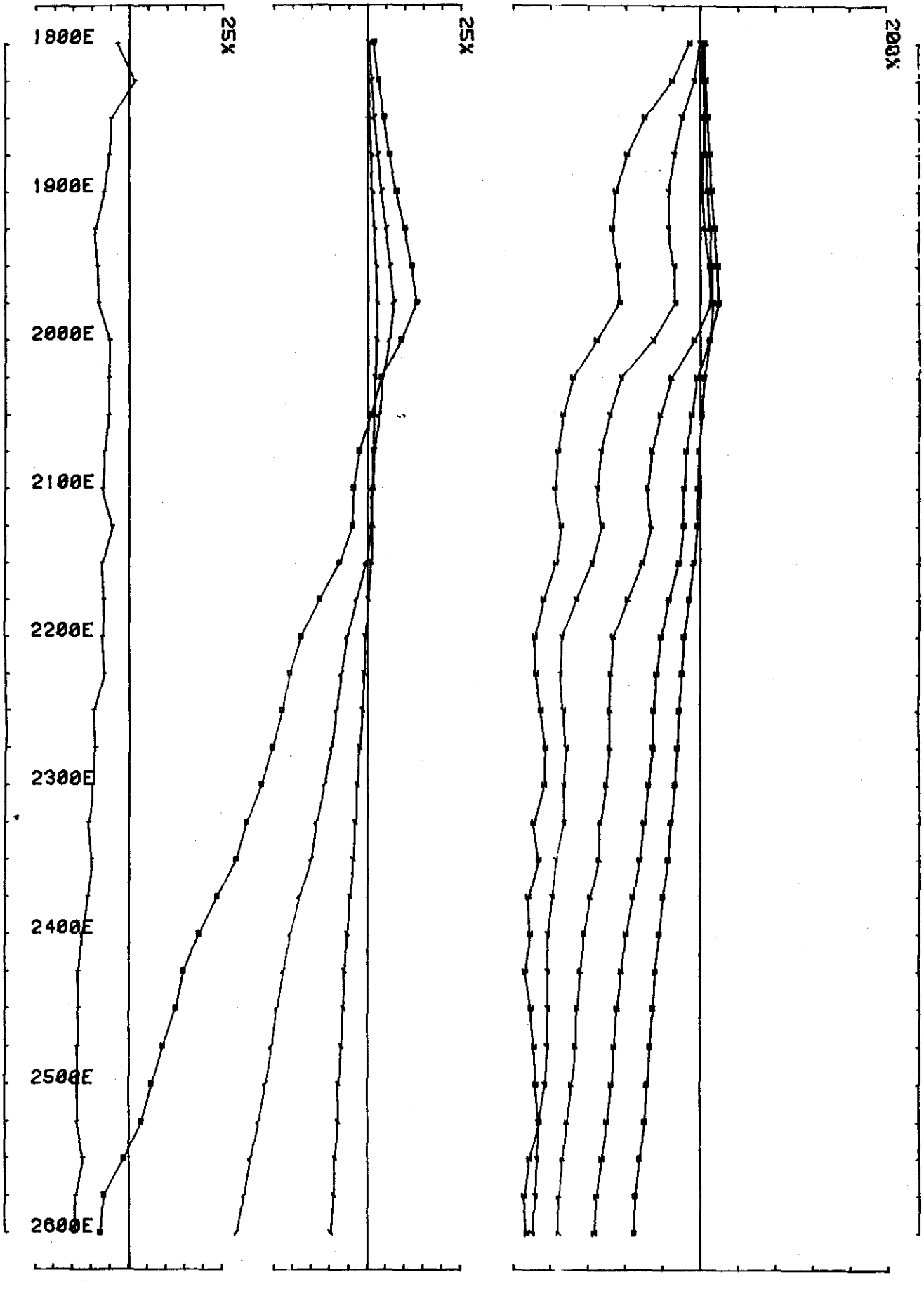
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO freq(hz) 26.230

Loopno 0101 Line 11500N component Hz secondary Ch 1

056

226057



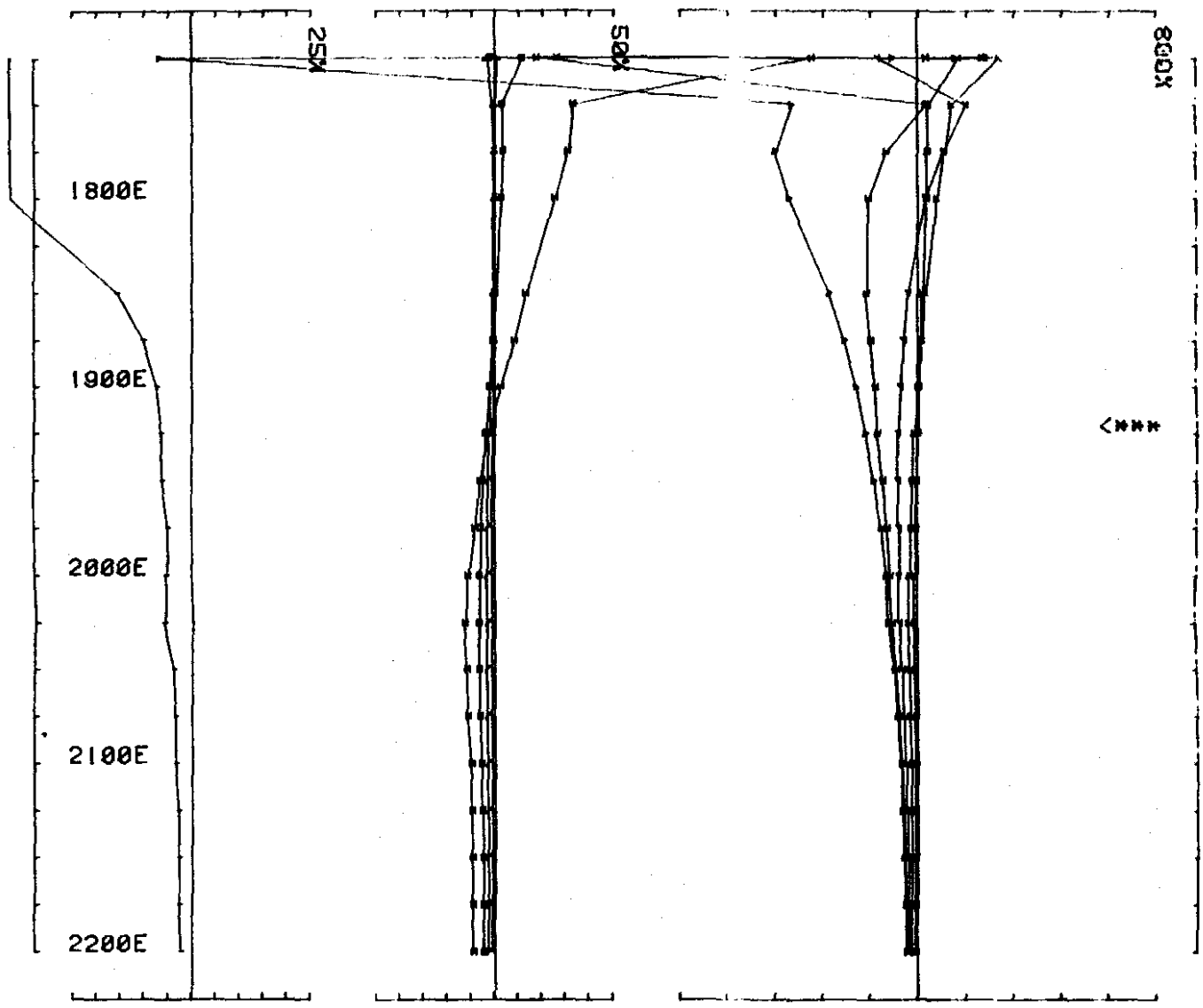
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for GEOPEKO Freq(hz) 26.230

Loopno 0101 Line 11600N component Hz secondary Ch 1

057

226058



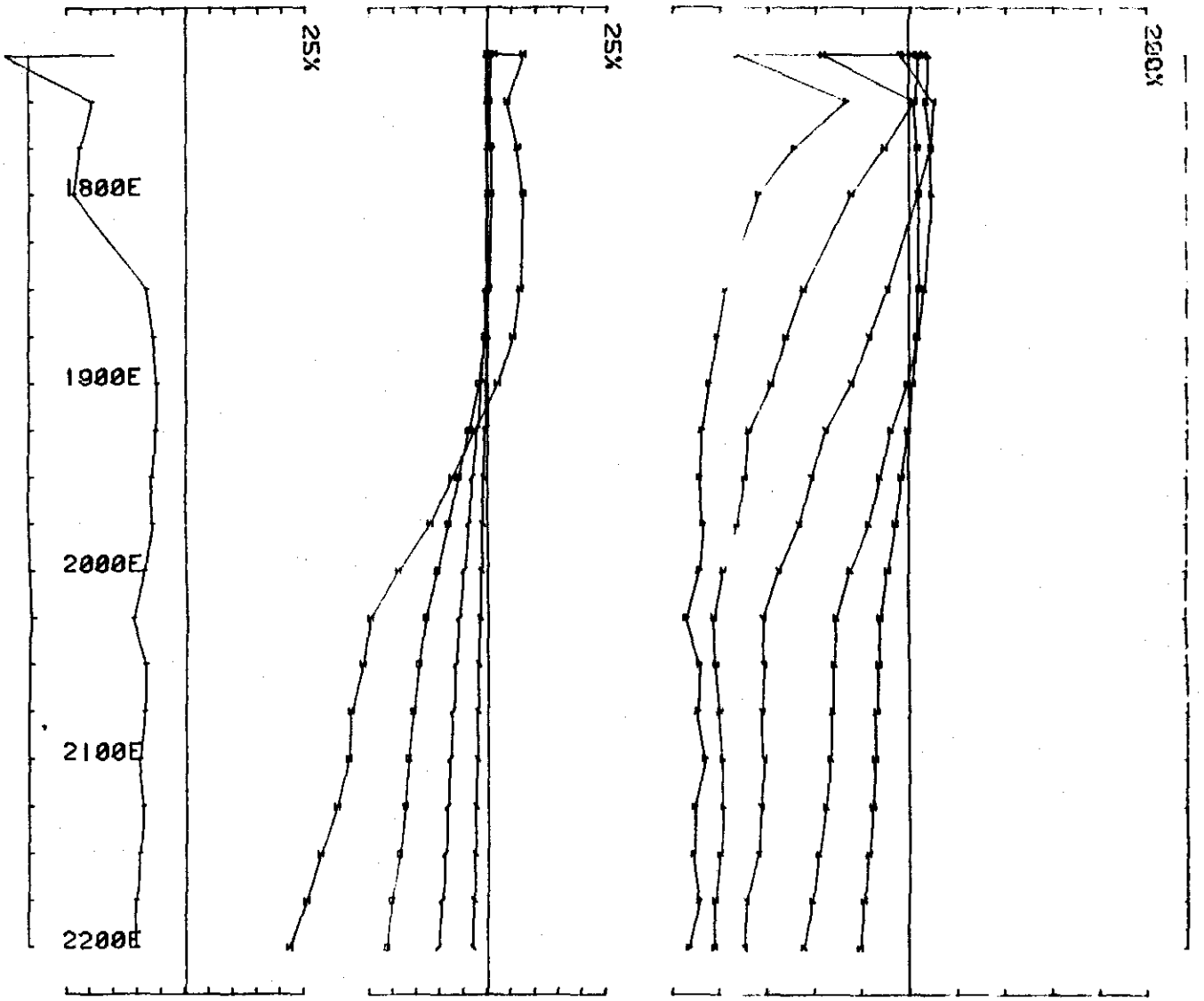
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko Freq(hz) 26.230

Loopno 0102 Line 12000N component Hz secondary Ch 1

058

226059



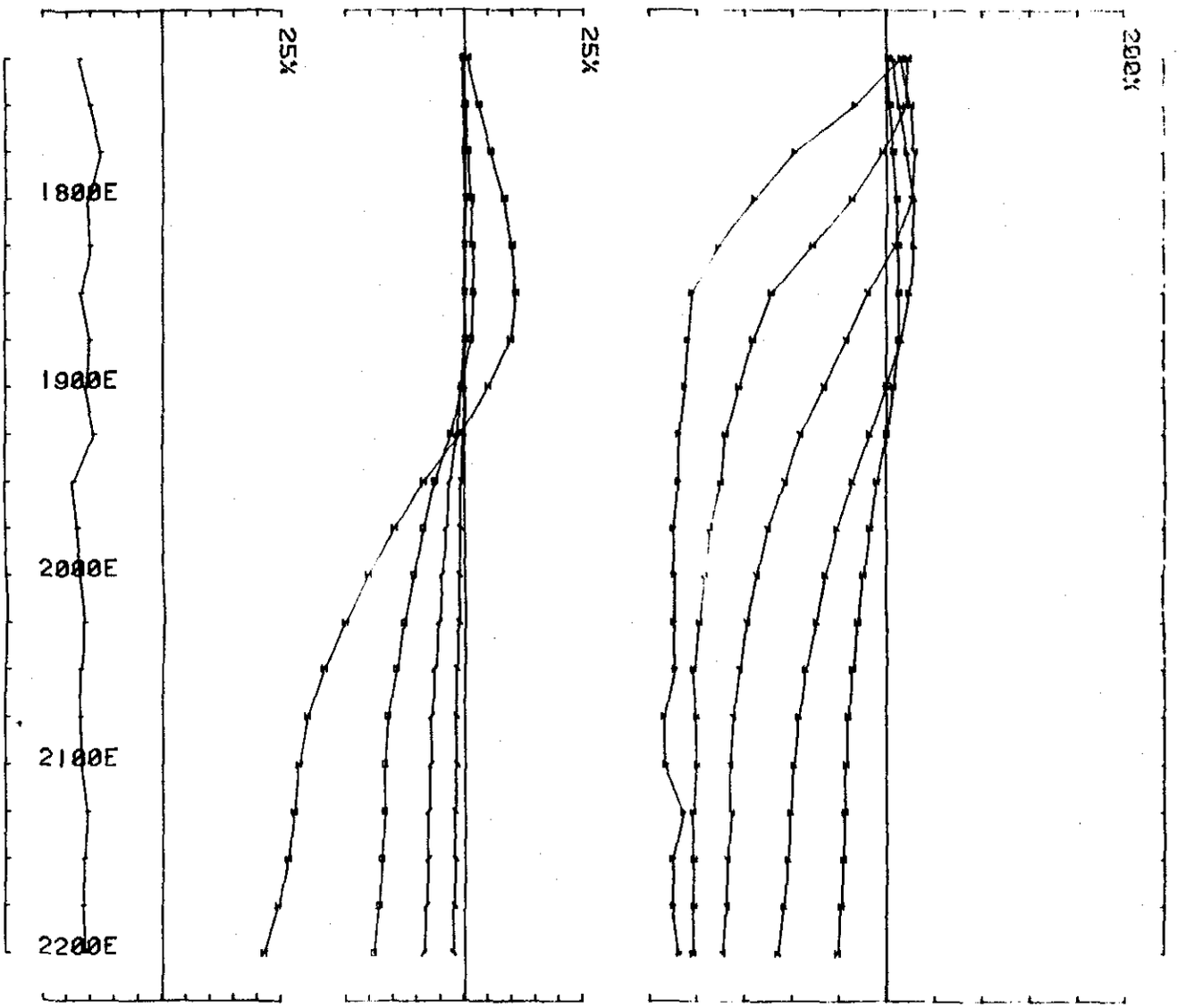
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko f. eq(hz) 26.230

Loopno 0102 Line 12000N component Hz secondary Ch. 1 .

059

226060



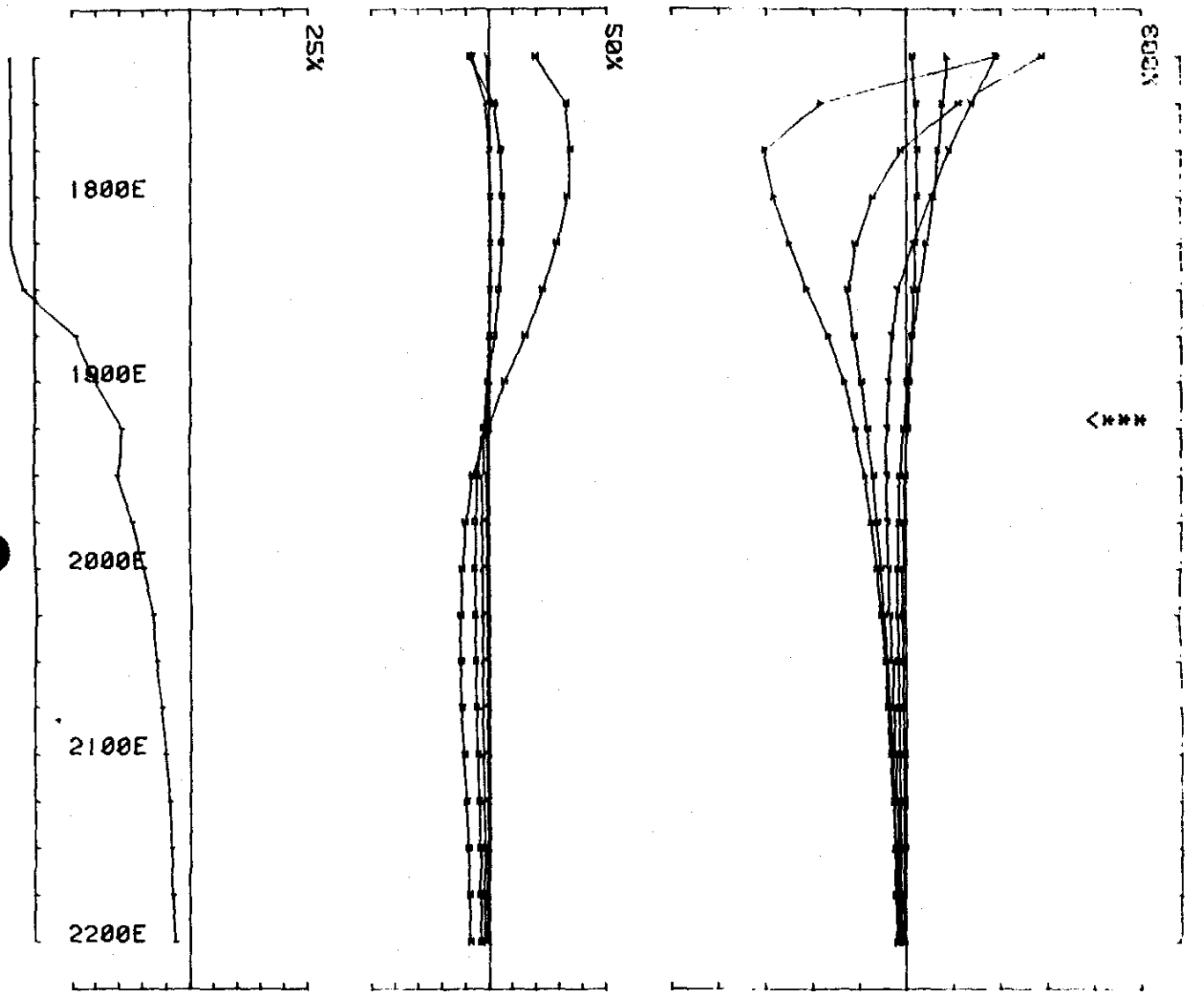
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko Freq(hz) 26.230

Loopno 0102 Line 11900N component Hz secondary Ch. 1.

030

226061



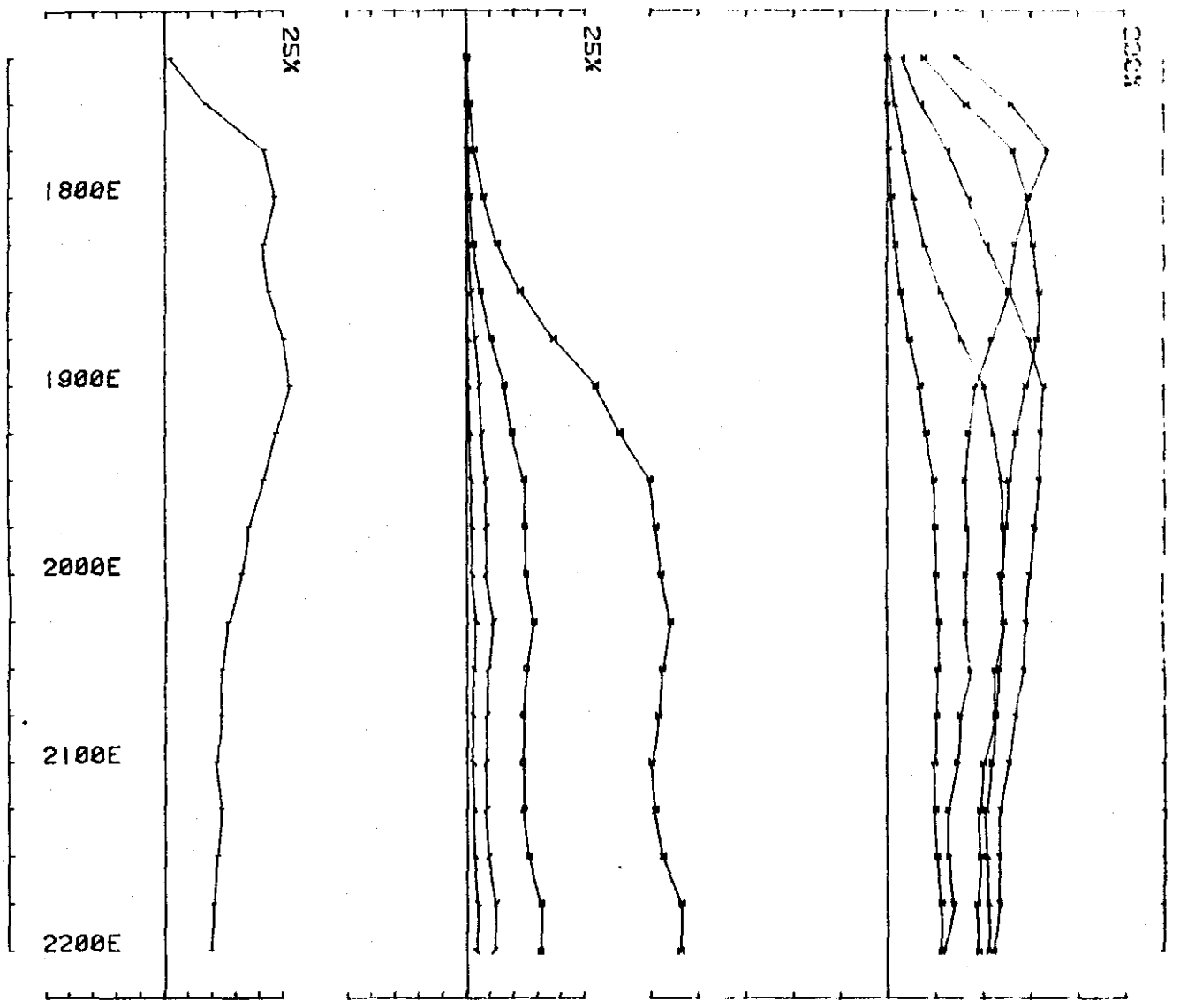
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko freq(hz) 26.230

Loopno 0102 Line 11900N component Hz secondary Ch 1

061

226062



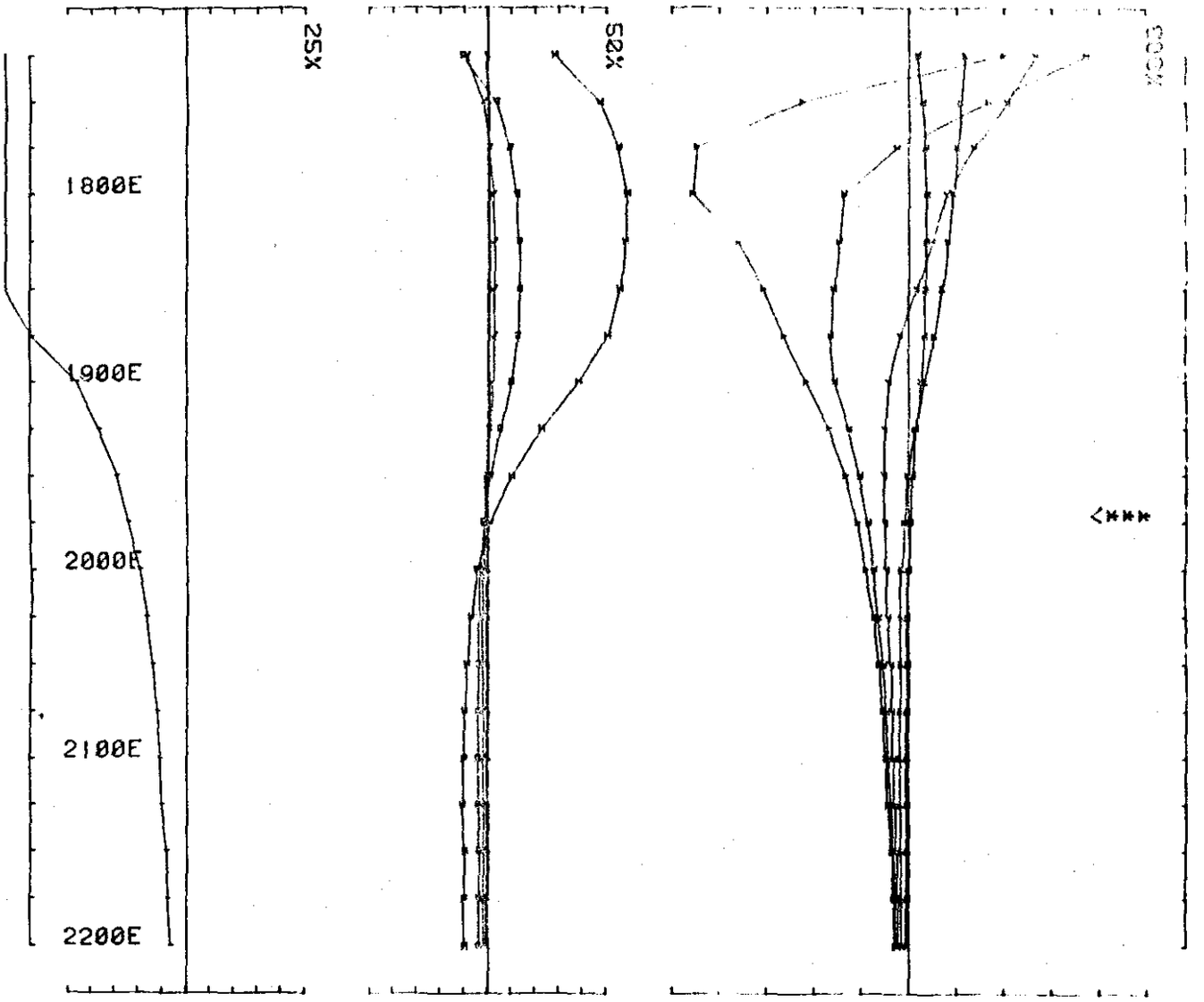
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko f. eq(hz) 26.230

Loopno 0102 Line 11800N component Hx secondary (:,)

062

226063



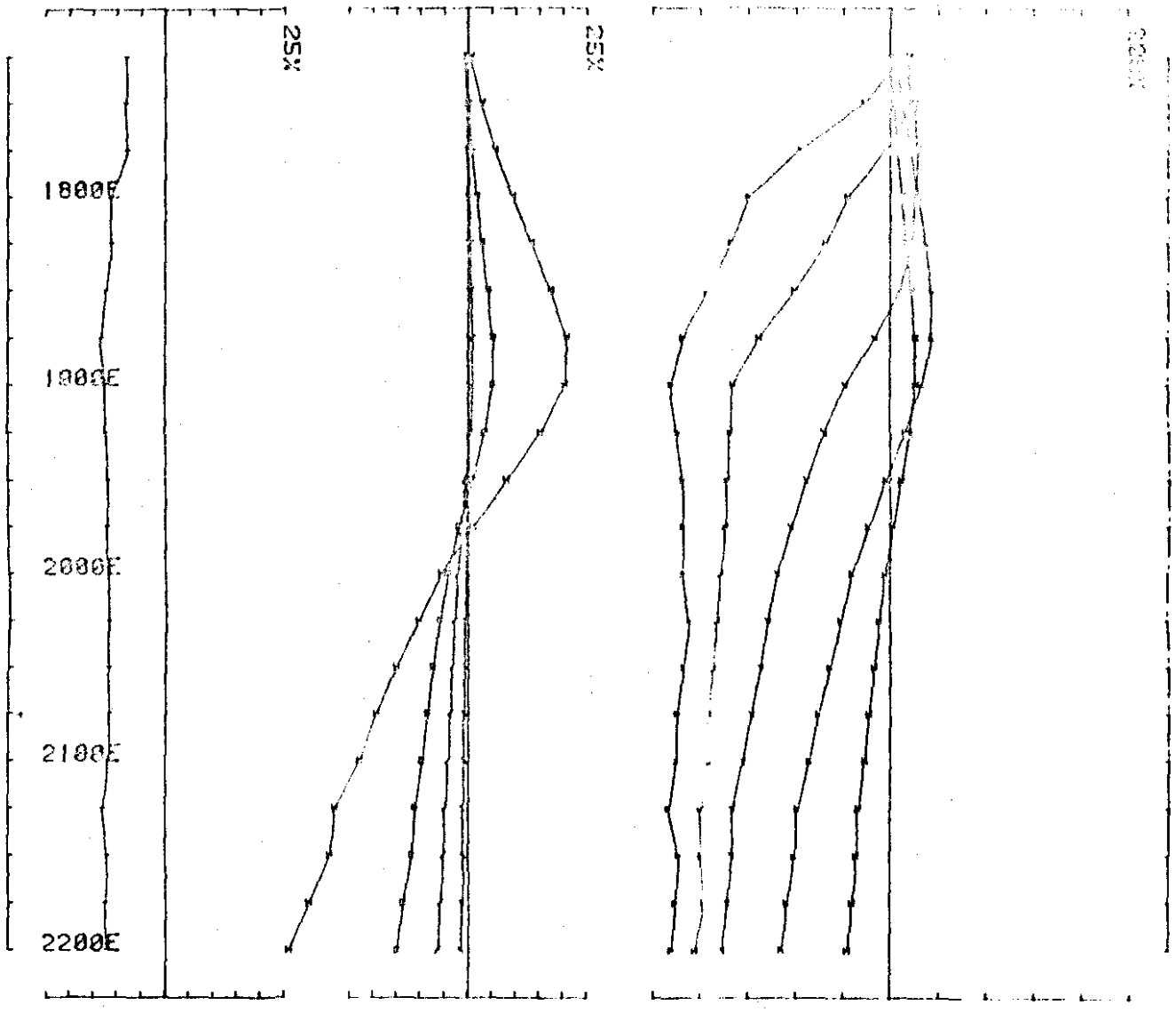
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko Freq(hz) 26.230

Loopno 0102 Line 11800N component Hz secondary Ch 1 .

063

226064



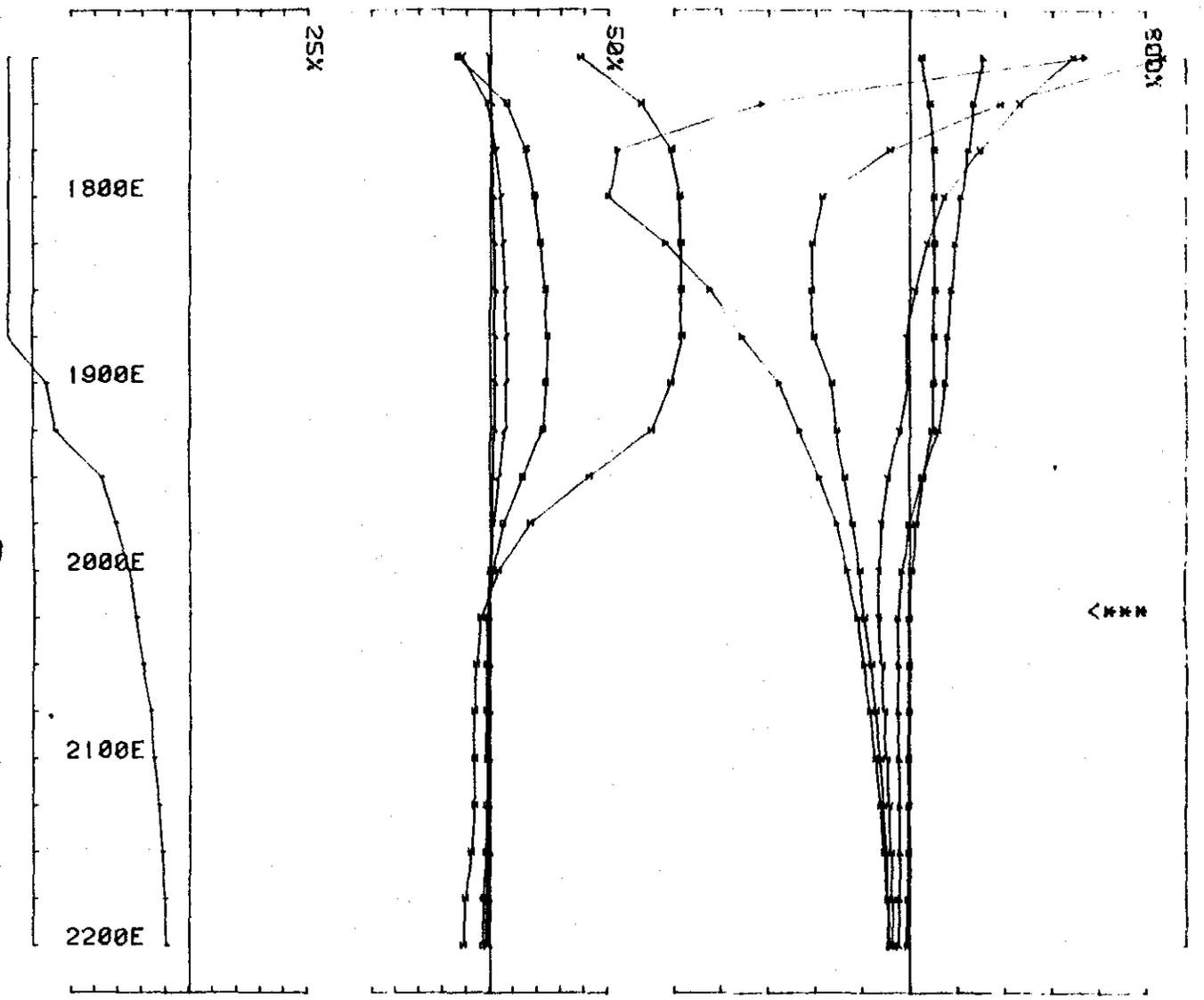
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko Freq(hz) 26.230

Loopno 0102 Line 11800N component Hz secondary Ch 1

064

226065



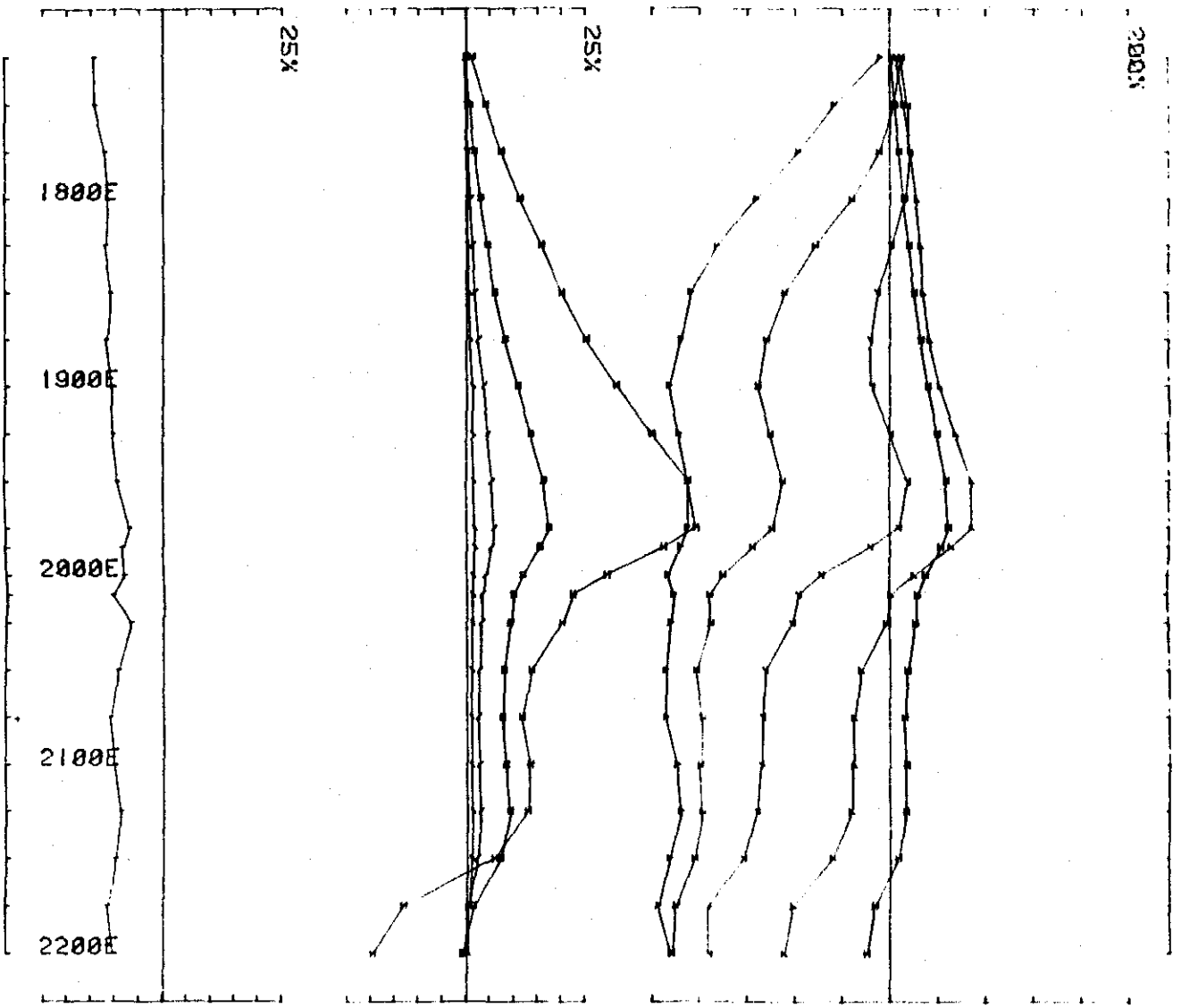
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko freq(hz) 26.230

Loopno 0102 Line 11700N component Hz secondary Ch 1

065

226066



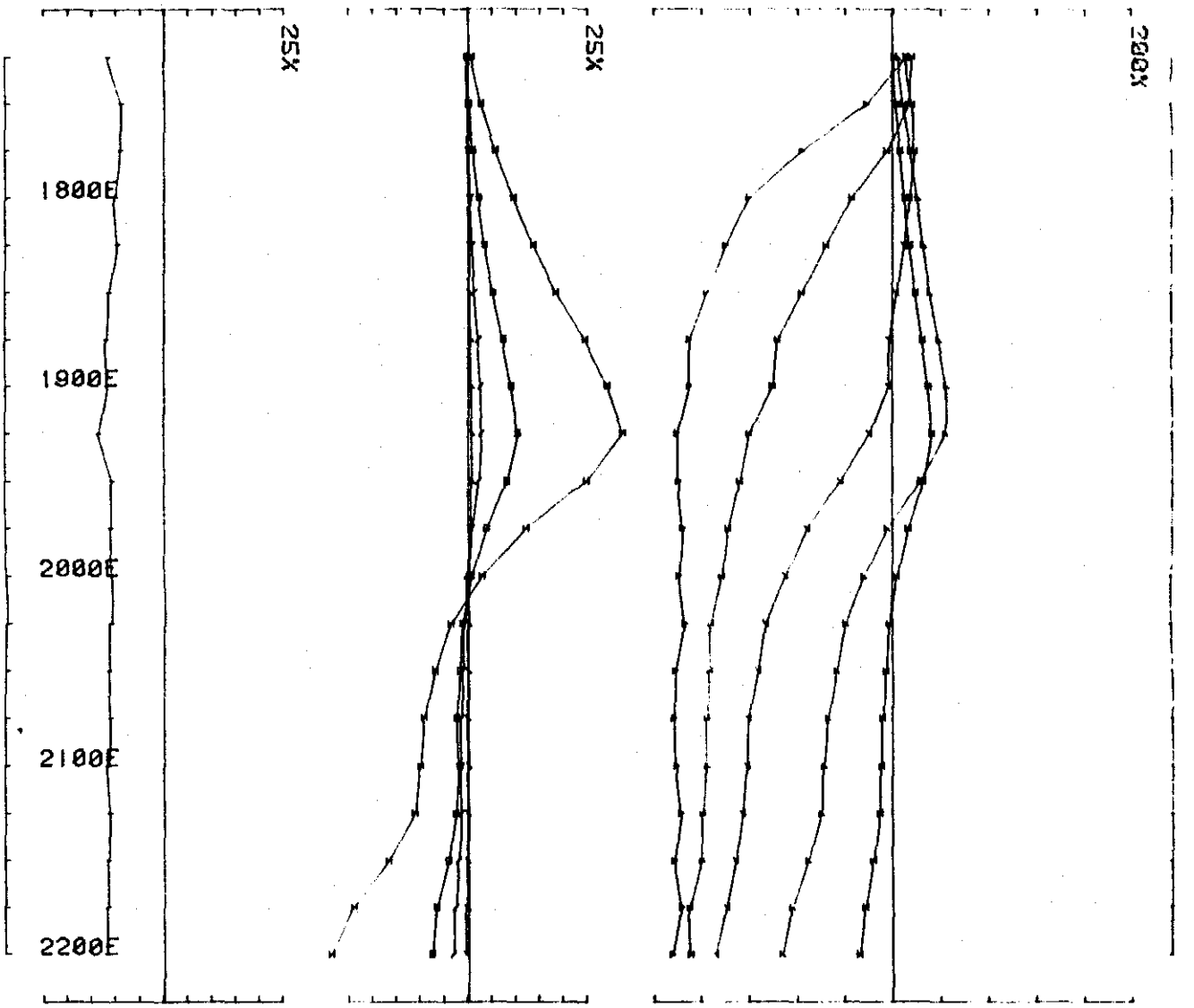
UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko freq(hz) 26.230

Loopno 0102 Line 11600N component Hz secondary Ch 1

066

226067



UTEM SURVEY conducted by PMM PDM Job 1101

Project Area Gourlays Creek Survey for Geopeko Freq(hz) 26.230

Loopno 0102 Line 11700N component Hz secondary Unit

067

226068

DDH GC1 PROPOSAL

068

226069

1. Hole GC-A

Collar Co-ordinates	2300E 11100N
Azimuth	270° Grid
Declination	-50°
Proposed Length	150 - 200m

grid west.

Target (1) Strong Sn anomaly of 2000ppm outlined by bedrock geochem.

(2) Chargeable, conductive zone shown by IP.

(3) Magnetic anomaly of 5000nT.

2. Hole GC-B

Collar Co-ordinates	21114mE 11257mN
Collared on diagonal line at line point 1500NE	
Azimuth	244°Grid
Declination	-45°
Proposed Length	200m

Target (1) Intense magnetic anomaly co-incident with outcropping magnetite zones.

(2) Deep chargeable conductor as shown by IP.

(3) Outcropping pyrite-tourmalinised quartzite carrying 500-4000ppm Sn.

3. DDH GC-3

Collar Co-ordinates	2125E 11400N
Azimuth	270° Grid
Declination	-45°
Depth	150m

Target (1) Well defined magnetic anomaly.

(2) Magnetite zones associated with Vincents Copper Prospect located 15m south of collar position.

(3) Cu, W geochem anomaly.

U69

226070

DDH GC 1 DRILL LOG

070

226071

SHEET 1 OF 6

GEOPEKO TASMANIA DRILL LOG

Prospect Gourdon Creek Hole no. GC 1

DEPTH (m) From	DEPTH (m) to	graphic log	ANGLE TO CORE AXIS Bo	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION cry	MINERALISATION po	Fracturing	Sample No.	From (m)	To (m)	Rec (%)	ASSAYS (Lab) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm
0	1																					
1	2										1140704	0	2		35	40	95	2	10.5	3	595	<10
2	3																					
3	4										1140705	2	4		55	40	125	2	9.64	3	550	<10
4	5																					
5	6										1140706	4	6		60	40	90	1	8.78	3	495	<10
6	7																					
7	8										1140707	6	8		30	20	40	1	3.13	2	85	<10
8	9																					
9	10										1140708	8	10		25	25	40	1	2.43	4	175	<10
10	11																					
11	12										1140709	10	12		30	25	50	1	2.74	4	150	<10
12	13																					
13	14										1140710	12	14		20	20	40	1	1.53	<1	15	<10
14	15				Schist with partings at 1cm spacing	Chlorite	1%				1140711	14	15	133	65	10	25	1	1.30	4	<5	<10
15	16				Quartz biotite tremolite schist with		(max)				1140712	15	16		90	15	40	1	2.02	13	<5	<10
16	17				chloritic alteration or secondary silicification	Silicification					1140713	16	17	103	115	30	45	1	1.81	14	<5	<10
17	18				along original bedding						1140714	17	18		50	20	35	1	2.44	9	<5	<10
18	19				Some evidence of silicification of						1140715	18	19		15	20	50	1	3.29	7	<5	<10
19	20				original carbonate beds						1140716	19	20	107	35	30	50	1	3.00	9	<5	<10
20	21				Degree of deformation increases from 19.0m						1140717	20	21		125	30	35	2	3.79	13	<5	<10
21	22				At 20.0m a narrow epidote filled breccia zone						1140718	21	22		45	30	35	1	2.77	10	<5	<10
22	23				may represent a fault						1140719	22	23	100	45	30	45	1	3.14	11	<5	<10
23	24				At 23.0m evidence of fluid migration with						1140720	23	24	100	45	40	50	2	3.55	8	<5	<10
24	25				green alteration (epidote ?) around minor						1140721	24	25	109	100	60	80	2	5.33	4	<5	10
25	26				fracture						1140722	25	26		40	20	70	2	4.61	7	<5	<10
26	27										1140723	26	27	40	85	20	60	2	3.66	22	5	10
27	28				Schistosity less well developed - more secondary						1140724	27	28	123	35	15	55	1	2.25	8	15	<10
28	29				silicification in the form of 'spider-web' veins						1140725	28	29		90	20	40	1	2.07	5	5	<10
29	30				from 29.2 - 31.0 system of fractures: -						1140726	29	30	104	110	20	50	1	1.85	3	40	<10
30	31				quartz filled with chlorite - appears to be	chlorite					1140727	30	31		35	15	45	1	1.59	1	5	<10
31	32				after carbonate						1140728	31	32		10	20	40	<1	1.48	2	5	<10
32	33				Schistosity redeveloped to 34.2m						1140729	32	33	103	50	15	35	1	1.43	7	5	<10
33	34										1140730	33	34		20	10	35	1	1.60	13	5	<10
34	35				At 34.5m - 25cm Carbonate band -	stain silicification	5	1%			1140731	34	35	91	460	15	50	2	1.31	5	50	<10
35	36				now heavily altered	silicification	tr	2%	tr		1140732	35	36		3200	20	165	4	1.92	6	105	<10
36	37				from 36.2m to 39.3 - original presence			1%			1140733	36	37	108	60	15	65	1	1.17	8	45	<10
37	38				garnet chain which has been re silicified			1%			1140734	37	38	100	2200	30	190	5	1.03	3	55	<10
	39				Numerous secondary carbonate veins						1140735	38	39		290	20	55	1	0.93	<1	270	<10

Rock-cutter percussion chips

GEOPEKO TASMANIA DRILL LOG

Prospect Gourlays Creek Hole no. GC1

DEPTH (m) from	DEPTH (m) to	Graphic Log	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION cpy	MINERALISATION po	Fracturing
39	40				cris-crosses the skarn					
40	41				At 39.0 there is a 10cm wide calcite					
41	42		70 80		band with large (up to 3cm) actinolite					
42	43				crystals					
43	44				From 39.2m to 44.0m Magnetite skarn		95%	1%		
44	45				with quartz, garnet and epidote					
45	46									
46	47									
47	48									
48	49									
49	50									
50	51									
51	52									
52	53									
53	54									
54	55									
55	56									
56	57				From 44.0m to 129.0m is a					
57	58				sequence of quartzites and biotite					
58	59				hornfelses.					
59	60				There is secondary silicification in					
60	61				the form of quartz veins and quartz	silicification	1%	-		
61	62		60 80		breccias associated with quartz				tr	
62	63				mica. Sulphide concentrations					
63	64				(mainly pyrite) is associated with					
64	65				quartz veining.					
65	66				Quartz veining normally parallels					
66	67				bedding. These veins may represent					
67	68				original carbonate bands, some					
68	69				of which still exist					
69	70				Visible pyrrhotite is found within					
70	71				the quartz					
71	72									
72	73									
73	74									
74	75									
75	76									
76	77									

Sample No.	From (m)	To (m)	Rec (%)	ASSAYS (Labs) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm
1140736	39	40		80	10	30	1	16.6	3	50
1140737	40	41	88	60	20	30	2	25.4	<1	250
1140738	41	42		20	20	40	2	6.38	<1	3050
1140739	42	43	100	45	20	60	1	13.3	<1	135
1140740	43	44		1300	20	70	2	15.7	<1	5
1140741	44	45		35	20	40	1	11.0	<1	5
1140742	45	46	100	85	10	30	1	5.72	<1	10
1140743	46	47		105	15	50	1	6.47	<1	35
1140744	47	48		110	10	50	1	8.52	<1	15
1140745	48	49		30	10	60	1	10.9	1	120
1140746	49	50	100	60	20	50	1	9.52	<1	50
1140747	50	51		30	20	50	1	5.51	<1	155
1140748	51	52	108	15	20	50	1	3.30	1	110
1140749	52	53		20	15	50	1	5.08	<1	10
1140750	53	54	94	10	20	25	1	5.43	<1	<5
1140751	54	55		35	15	60	1	2.61	1	70
1140752	55	56		145	20	50	1	3.85	1	985
1140753	56	57		520	20	100	2	4.24	<1	550
1140754	57	58	95	270	15	40	1	2.39	3	50
1140755	58	59		175	15	35	1	2.59	1	15
1140756	59	60		125	10	30	1	2.38	2	5
1140851	60	61		290	20	30	2	1.96	50	10
1140852	[illegible]	[illegible]		80	20	25	1	1.63	165	5
1140853	62	63		36	15	20	1	2.04	16	<5
1140854	63	64		40	15	30	1	2.13	10	5
1140855	64	65		60	15	25	1	2.22	10	50
1140856	65	66		125	25	35	2	6.12	8	5
1140857	66	67		85	30	60	2	7.74	9	5
1140858	67	68		90	25	50	2	5.35	10	10
1140859	68	69		180	20	25	2	4.06	6	5
1140860	69	70		1050	25	45	2	7.03	9	10
1140861	70	71		660	25	45	2	6.45	7	5
1140862	71	72		130	30	45	2	7.18	10	<5
1140863	72	73		95	30	40	2	7.24	9	<5
1140864	73	74		130	25	35	2	9.56	9	<5
1140865	74	75		180	25	35	2	7.48	9	<5
1140866	75	76		120	35	40	2	6.99	7	35
1140867	76	77		70	30	55	2	6.13	7	55

226073

SHEET 3 OF 6

GEOPEKO TASMANIA DRILL LOG

Prospect Gourlays Creek Hole no. CC 1

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS Bo	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	MINERALISATION cpy	Fracturing
77	78									
78	79									
79	80									
80	81									
81	82									
82	83									
83	84									
84	85									
85	86									
86	87									
87	88									
88	89									
89	90									
90	91									
91	92						-	tr		
92	93									
93	94				Muscovite rich quartz [illegible]					
94	95				[illegible]					
95	96				green colour					
96	97									
97	98									
98	99									
99	100									
100	101				and green alteration					
101	102									
102	103									
103	104									
104	105									
105	106									
106	107									
107	108									
108	109									
109	110									
110	111									
111	112									
112	113									
113	114									
114	115									

Sample No.	From (m)	To (m)	Rec (%)	ASSAYS (Lab: A L S) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sr ppm	W ppm
1140868	77	78		105	30	60	2	6.36	8	40	<1
1140869	78	79		175	30	55	2	4.96	8	140	<1
1140870	79	80		75	30	55	2	6.16	7	30	1
1140871	80	81		20	25	55	2	6.34	7	35	<1
1140872	81	82		60	30	45	2	6.63	6	25	<1
1140873	82	83		105	25	30	1	2.99	6	45	<1
1140757	83	84		30	10	30	1	4.20	1	5	<1
1140758	84	85		20	10	25	1	4.32	<1	5	<1
1140759	85	86		20	15	35	1	4.21	1	10	1
1140760	86	87		25	15	40	1	3.82	<1	30	<1
1140874	87	88		20	20	25	1	2.59	9	10	<1
1140875	88	89		15	25	35	2	2.81	10	35	<1
1140876	89	90		45	25	40	2	3.67	9	85	<1
1140877	90	91		95	30	45	2	3.45	14	30	1
1140578	91	92		25	25	35	2	2.78	6	20	1
1140879	92	93		15	25	30	2	3.49	6	<5	<1
1140880	93	94		10	25	40	2	3.29	5	65	<1
1140881	94	95		10	25	25	2	3.22	7	15	<1
1140582	95	96		10	30	25	2	2.65	7	55	<1
1140883	96	97		10	30	30	2	4.47	6	5	<1
1140884	97	98		10	25	40	2	3.62	7	55	<1
1140885	98	99		10	25	30	1	3.07	6	30	<1
1140886	99	100		20	20	30	1	2.07	5	105	1
1140887	100	101		10	15	40	1	2.65	5	25	<1
1140888	101	102		40	20	35	1	2.75	5	85	<1
1140889	102	103		10	25	40	1	2.88	5	55	<1
1140890	103	104		25	25	30	1	3.38	6	40	<1
1140891	104	105		20	25	35	1	3.16	5	50	<1
1140892	105	106		25	20	25	1	3.34	10	25	<1
1140893	106	107		10	25	20	1	3.72	6	<5	<1
1140894	107	108		25	30	35	1	3.25	5	35	<1
1140895	108	109		40	10	40	2	3.58	9	20	
1140761	109	110		110	20	35	1	3.26	5	220	<1
1140762	110	111		120	15	30	1	4.12	<1	15	<1
1140763	111	112		340	15	30	1	4.79	<1	5	<1
1140764	112	113		30	20	30	1	5.00	<1	<5	
1140836	113	114		35	15	30	2	3.30	6	<5	
1140897	114	115		400	15	65	3	6.29	10	10	<1

GEOPEKO TASMANIA DRILL LOG

Prospect Courtney Creek Hole no. GC 1

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	MINERALISATION cpy	MINERALISATION Mag	Fracturing
115	116										
116	117										
117	118										
118	119										
119	120										
120	121										
121	122				At 122.40m large quartz vein						
122	123				with green fedspar and tourmaline	chlorite					
123	124				alteration. An increase in						
124	125				available carbonate and increase						
125	126				in sulphide content (pyrite)		MOD 2%				
126	127										
127	128				From 122.60 to 130.0, altered						
128	129				quartz rich zone of essentially						
129	130				biotite hornfels with chlorite and						
130	131				green mica.						
131	132				At 130.1 to 130.4 Breccia zone		8%				
132	133				with massive pyrite and minor						
133	134				siderite						
134	135				132.0 - 132.5 pyroxene rich zone						
135	136				associated with minor fracture -						
136	137				possible garnet development						
137	138				biotite hornfels to 144.6m						
138	139				biotite occurs as small blebs (5mm						
139	140				diameter) giving a spotted or						
140	141				mottled appearance. In T.S.						
141	142				this is a subsequent biotite growth						
142	143				possibly after chlorite.						
143	144				144.6 - 144.8 Actinolite, pyrite		5%		1%		
144	145				rock - probably vein replacement						
145	146				Pyrite becoming more common						
146	147				as fine veinlets parallel to						
147	148				bedding						
148	149				Biotite hornfels to 149.8						
149	150				From 149.8 to 155.6 -						
150	151				POSSIBLE BRECCIA ZONE WITH		20%		2%	10%	
151	152				MASSIVE PYRITE & Magnetite and						
152	153				siderite veins						

Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab: ALS) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sb ppm
1140898	115	116		260	15	55	1	3.22	22	115
1140899	116	117		75	10	50	1	3.82	10	65
1140900	117	118		30	10	35	1	4.54	6	<5
1140901	118	119		15	15	35	1	3.86	6	5
1140902	119	120		25	15	30	1	4.36	6	5
1140903	120	121		25	20	40	1	3.93	6	10
1140904	121	122		45	15	35	1	3.41	20	25
1140905	122	123		80	25	40	1	3.00	24	25
1140906	123	124		20	20	45	1	3.54	6	25
1140907	124	125		20	20	55	1	4.27	10	10
1140908	125	126		70	20	35	1	2.47	12	240
1140909	126	127		50	15	35	<1	2.30	10	125
1140910	127	128		30	20	40	2	4.27	6	5
1140911	128	129		20	25	35	2	2.58	7	50
1140912	129	130		15	20	55	2	3.75	8	5
1140765	130	131		270	20	40	1	5.93	<1	470
1140766	131	132		80	20	45	1	3.14	<1	990
1140913	132	133		30	30	40	1	2.25	6	750
1140914	133	134		30	25	25	1	3.07	4	10
1140915	134	135		25	30	40	1	3.30	5	15
1140916	135	136		25	25	35	1	3.82	10	15
1140917	136	137		25	25	35	1	2.99	6	50
1140918	137	138		30	25	35	1	3.92	10	10
1140919	138	139		25	25	40	1	2.24	6	45
1140920	139	140		30	25	35	1	3.11	6	25
1140921	140	141		500	25	30	1	4.28	5	<5
1140922	141	142		90	20	25	1	3.96	6	5
1140923	142	143		45	20	35	1	4.96	6	<5
1140767	143	144		150	15	40	1	4.66	<1	100
1140768	144	145		660	25	50	2	9.80	6	500
1140769	145	146		45	20	45	1	2.97	<1	95
1140770	146	147		95	15	30	1	3.00	2	5
1140771	147	148		60	10	30	1	3.51	4	5
1140772	148	149		70	15	40	1	4.02	6	<5
1140773	149	150		120	20	65	2	6.94	2	<5
1140774	150	151		1650	400	2600	7	26.6	1280	<5
1145775	151	152		2400	4200	1400	18	32.2	3850	220
1140776	152	153		1600	80	90	5	37.5	2450	1115

226075

SHEET 5 OF 6

GEOPEKO TASMANIA DRILL LOG

Prospect Courlays Creek Hole no. GC 1

DEPTH (m) from	DEPTH (m) to	Graphic Log	ANGLE TO CORE AXIS Sa	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION cpy	MINERALISATION po	MINERALISATION mag	Fracturing
153	154						20	1%	tr	15	
154	155						10	tr	tr	10	
155	156						1	-	-	1	
156	157						1	tr	-	1	
157	158						2	1	-	1	
158	159						2	tr			
159	160				FROM 155.5 to EOH at 196.16m Biotite Hornfels		1	tr	-	-	
160	161				finely laminated with strongly		2	1	-	1	
161	162				disseminated pyrite in patches		5	1	-	-	
162	163				parallel to bedding.		7	3	-	5	
163	164				Silicification & chlorite alteration		2	5	-	5	
164	165				are not as well developed		2	tr	-	5	
165	166				as in previous sections		2	tr	-	-	
166	167						1				
167	168						1				
168	169						<1				
169	170						1				
170	171						1	1			
171	172						3	1			
172	173						5	2			
173	174						3	1			
174	175						1	2			
175	176						<1	1			
176	177						1	2			
177	178						<1	1			
178	179						<1	1			
179	180						1				
180	181						2	1			
181	182						1				
182	183										
183	184										
184	185										
185	186										
186	187										
187	188										
188	189										
189	190										
190	191										

Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab: ALS) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sb ppm
1140777	153	154		4000	60	60	5	40.0	200	10
1140778	154	155		220	30	30	1	9.74	50	295
1140779	155	156		45	20	50	1	5.75	5	30
1140780	156	157		115	20	50	1	7.12	1	15
1140781	157	158		320	20	60	2	11.2	3	10
1140782	158	159		200	20	40	1	7.24	5	90
1140783	159	160		185	20	90	2	6.98	2	5
1140784	160	161		440	20	40	2	21.2	1	30
1140785	161	162		480	20	35	1	9.61	6	<5
1140786	162	163		4800	15	105	4	29.8	8	60
1140787	163	164		3600	10	35	3	12.2	2	665
1140788	164	165		360	5	20	1	9.75	<1	5
1140789	165	166		410	10	10	1	7.50	3	80
1140790	166	167		370	5	10	1	6.48	2	30
1140791	167	168		380	15	10	1	6.17	<1	90
1140792	168	169		560	15	10	1	5.80	<1	25
1140793	169	170		160	20	15	1	7.64	<1	15
1140794	170	171		200	20	20	1	8.11	<1	10
1140795	171	172		440	20	15	1	9.78	<1	15
1140796	172	173		3600	20	25	2	17.3	<1	55
1140797	173	174		1250	20	25	2	13.2	<1	5
1140798	174	175		3600	15	20	2	13.9	<1	<5
1140799	175	176		2200	10	15	1	9.14	<1	<5
1140800	176	177		560	30	10	1	7.51	<1	25
1140801	177	178		260	15	25	2	7.61	<1	45
1140802	178	179		145	20	10	2	7.56	<1	<5
1140803	179	180		240	25	30	2	8.84	<1	25
1140804	180	181		125	20	30	2	12.4	<1	5
1140805	181	182		155	15	20	2	7.47	1	5
1140806	182	183		300	15	15	2	8.54	<1	5
1140807	183	184		130	20	30	2	9.91	<1	<5
1140808	184	185		85	20	25	2	9.56	<1	25
1140809	185	186		110	20	10	1	7.12	<1	<5
1140810	186	187		280	15	15	1	7.39	<1	<5
1140811	187	188		390	20	25	3	11.6	1	<5
1140812	188	189		300	15	20	2	8.74	<1	<5
1140813	189	190		50	15	15	2	7.08	<1	<5
1140814	190	191		60	15	20	2	7.05	<1	<5

226076

SHEET 6 OF 6

GEOPEKO TASMANIA DRILL LOG

Prospect Gourlays Creek Hole no. GC 1

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Sr	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py				Fracturing	Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab: A-L S) Cu PPM	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm
191	192											1140815	191	192		240	15	15	2	7.26	<1	<5	<
192	193											1140816	192	193		230	20	15	3	6.63	<1	<5	<
193	194											1140817	193	194		80	20	20	2	6.39	<1	<5	<
194	195											1140818	194	195		50	20	15	2	5.72	<1	<5	<
195	196.1											1140819	195	196.1		50	20	20	1	5.82	<1	<5	

Updated June 1983

076

226077

TASMANIA

CRA EXPLORATION PTY. LTD.

R

Sample Number	LOCATION						ROCK TYPE			MINERALISATION						METAL CONTENT ppm / %										Geological Observations
	Co-ordinates AMG / Grid		Exposure	S. Type	Width (m)	Interval	Major Rock	Minor Rock	Alteration	Visible	Style	Major	Minor	Minor	Gangue	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Ba ppm	Au ppb	
	East	North				From / To																					
1140704				7		0 2	93		18								35	40	95	2	10·5	3	595	<10			
140705				7		2 4	93		18								55	40	125	2	9·64	3	550	<10			
140706				7		4 6	93		18								60	40	90	1	8·78	3	415	<10			
140707				7		6 8	93		18								30	20	40	1	3·13	2	85	<10			
40708				7		8 10	93		18								25	25	40	1	2·43	4	175	<10			
140709				7		10 12	93		18								30	25	50	1	2·74	4	150	<10			
140710				7		12 14	105	100	4	3	7	10			1		20	20	40	1	1·53	41	15	<10			
40711				5		14 15											65	10	25	1	1·30	4	<5	<10			
140712				5		15 16			10								90	15	40	1	2·02	13	<5	<10			
1140713				5		16 17											115	30	45	1	1·81	14	<5	<10			
1140714				5		17 18											50	20	35	1	2·44	9	<5	<10			
1140715				5		18 19											15	20	50	1	3·29	7	<5	<10			
1140716				5		19 20											35	30	50	1	3·00	9	<5	<10			
140717				5		20 21											125	30	35	2	3·79	13	<5	<10			
140718				5		21 22											45	30	35	1	2·77	10	<5	<10			
1140719				5		22 23											45	30	45	2	3·14	11	<5	<10			
140720				5		23 24											45	40	50	2	3·55	8	<5	<10			
1140721				5		24 25											100	60	80	2	5·33	4	<5	10			
1140722				5		25 26											40	20	70	2	4·61	7	<5	<10			
1140723				5		26 27											85	20	60	2	3·66	22	5	<10			
																DETECTION LIMIT	2	5	2	1	0·01	1	5	10	10	3	
																ANALYTICAL METHOD	Gool	Gool	Gool	Gool	Gool	Gool	XRFA	XRFA	XRFA	PB209	

Width (m): Approx. Plan Percussion

GEOCHEMICAL ROCK SAMPLING LEDGER

Tenement Name:

Project: Gourlays Creek 1 AMG Zone:

Sheet No.: 1

Area / Prospect: Gourlay's CK

DPO's:

Laboratory: A L S

Map / Photo Ref:

Sample No's: 1140704 – 1140723

Collected By: C.J. KENDALL Date: 10/5/84

Updated June 1983

077

226078

TASMANIA

CRA EXPLORATION PTY. LTD.

R

Sample Number	LOCATION: Co-ordinates AMG / Grid East	North	Exposure	S. Type	Width (m)	Interval From	To	ROCK TYPE: Major Rock	Minor Rock	Alteration	MINERALISATION: Visible	Style	Major	Minor	Minor	Gangue	LOOK	METAL CONTENT ppm / %: Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Ba ppm	Au ppb	Geological Observations
1140724				5	1	27	28	105	100	10								35	15	55	1	2·25	8	15	<10			
140725						28	29											90	20	40	1	2·07	5	5	<10			
1140726						29	30											110	20	50	1	1·85	3	40	<10			
1140727						30	31											35	15	45	1	1·59	1	5	<10			
1140728						31	32											10	20	40	<1	1·48	2	5	<10			
1140729						32	33											50	15	35	1	1·43	7	5	<10			
1140730						33	34											20	10	35	1	1·60	13	5	<10	650	<3	
1140731						34	35	110	20	10 13	3	6	10	30	90	1 3		460	15	50	2	1·31	5	50	<10	540	10	
1140732						35	36			15						7		3200	20	165	4	1·92	6	105	<10	90	3	
1140733						36	37											600	15	65	1	1·17	8	45	<10	100	3	
1140734						37	38											3200	30	190	5	1·09	3	55	<10		5	
1140735						38	39											270	20	55	1	1·93	<1	170	<10		3	
1140736						39	40											80	10	30	1	1·66	3	50	<10		<3	
140737				5	1	40	41	110										60	20	30	2	2·54	<1	250	<10		<3	
1140738				5	1	41	42	110		15 10	4	6	90	10				20	20	40	2	6·38	<1	3050	20		<3	
1140739						42	43											45	20	60	1	13·3	<1	135	<10		<3	
1140740						43	44											1300	20	70	2	15·7	<1	5	<10		10	
1140741				5	1	44	45	100	8	15	2	3	10			1		95	20	40	1	11·0	<1	5	<10		<3	
1140742						45	46	101	106									85	10	30	1	5·72	<1	10	10		3	
1140743						46	47											105	15	50	1	6·47	<1	35	<10			
																		2	5	2	1	0·01	1	5	10	10	3	
																		6001	6001	6001	6001	6001	6004	XRFIA	XRFIA	XRFIA	PM205	

GEOCHEMICAL ROCK SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD

Tenement Name:

Project: Gourlays Creek 1 AMG Zone:

Sheet No.: 2

Area / Prospect:

DPO's:

Laboratory:

Map / Photo Ref.:

Sample No's: 1140724-1140743

Collected By:

Date:

Updated June 1983

078

226079

R

ASMANIA

CRA EXPLORATION PTY. LTD.

Sample Number	LOCATION							ROCK TYPE			MINERALISATION						METAL CONTENT ppm / %										Geological Observations
	Co-ordinates AMG / Grid		Exposure	S. Type	Width (m)	Interval		Major Rock	Minor Rock	Alteration	Visible	Style	Major	Minor	Minor	Gangue	LODE	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Ba ppm	Au ppb	
	East	North				From	To																					
1140744						47	48											110	10	50	1	6.52	<1	15	<10			
140745						48	49											90	10	60	1	10.9	1	120	10			
1140746						49	50											60	20	50	1	9.52	<1	50	<10			
140747						50	51											30	20	50	1	5.51	<1	155	<10			
40748						51	52											15	20	50	1	3.30	1	110	<10			
140749						52	53											20	15	50	1	5.08	<1	10	<10			
140750						53	54											10	20	25	1	5.43	<1	<5	<10			
1140751						54	55											35	15	60	1	2.61	1	70	<10			
1140752						55	56											145	20	50	1	3.85	1	985	<10			
140753						56	57											520	20	100	2	4.24	<1	550	<10			
1140754						57	58											270	15	40	1	2.39	3	50	<10			
1140755						58	59											175	15	35	1	2.59	1	15	<10			
1140756						59	60											125	10	30	1	2.38	2	5	<10			
1140757						83	84											30	10	30	1	4.20	1	5	<10			
1140758						84	85											20	10	25	1	4.32	<1	5	<10			
1140759						85	86											20	15	35	1	4.21	1	10	10			
1140760						86	87											25	15	40	1	3.82	<1	20	<10			
140761						109	110											110	20	35	1	3.28	5	730	<10			
1140762						110	111											120	15	30	1	4.12	<1	15	<10			
1140763						111	112											340	15	30	1	4.79	<1	5	<10			
																		2	5	2	1	0.01	1	5	10	10	3	
																		6001	6001	6001	6001	6001	6001	XRFIA	XRFIA	XRFIA	FA205	

GEOCHEMICAL ROCK SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD

Tenement Name:

Project: Goulays Creek

AMG Zone:

Sheet No.: 3

Area / Prospect:

DPO's:

Laboratory:

Map / Photo Ref:

Sample No's: 1140744 - 1140763

Collected By:

Date:

Updated June 1983

079

226080

TASMANIA

CRA EXPLORATION PTY. LTD.

R

Sample Number	LOCATION							ROCK TYPE			MINERALISATION						METAL CONTENT ppm / %										Geological Observations
	Co-ordinates AMG / Grid		Exposure	S. Type	Width (m)	Interval		Major Rock	Minor Rock	Alteration	Visible	Style	Major	Minor	Minor	Gangue	LOOK	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Ba ppm	Au ppb	
	East	North				From	To																					
1140764						112	113											90	20	30	1	5·00	<1	<5	<10			
140765				5	1	130	131	120		7	4	1	10	92	30	1		270	20	40	1	5·93	<1	470	<10			
140766						131	132											80	20	45	1	3·14	<1	990	<10			
140767				5	1	143	144	110		7	4	6 7	10					150	15	40	1	4·66	<1	100	<10			
140768						144	145					4						660	25	50	2	9·80	6	500	<10			
140769						145	146											45	20	45	1	2·97	<1	95	<10		3	
140770						146	147											95	15	30	1	3·00	2	5	<10			
140771						147	148											60	10	30	1	3·51	4	5	<10			
140772						148	149											70	15	40	1	4·02	6	<5	<10			
140773						149	150											120	20	65	2	6·94	2	<5	<10	1100		
140774				5	1	150	151	4			4	1 2 3	10	30 92	90			1650	400	2600	7	26·6	1280	<5	<10	600		
140775						151	152											2400	4200	1400	18	32·2	3850	220	<10	90		
140776						152	153											1600	80	90	5	37·5	2450	1115	10	<10		
140777						153	154											4000	60	60	5	40·0	740	10	10	330		
140778						154	155											220	30	30	1	9·74	50	295	10	1750		
140779						155	156											45	20	50	1	5·75	5	30	<10	2750		
140780						156	157											115	20	50	1	7·12	1	15	<10	1700		
140781				5	1	157	158	101	100	4	2	8	10					320	20	60	2	11·2	3	10	<10	1900		
140782						158	159											200	20	40	1	7·24	5	90	10	1900		
140783						159	160											185	20	90	2	6·98	2	5	<10	3050	<3	
																		2	5	2	1	0·01	1	5	10	10	3	
																		Goo1	Goo1	Goo1	Goo1	Goo1	Goo1	XRFM	XRFM	XRFM	Pm205	

GEOCHEMICAL ROCK SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD

Tenement Name:

Area / Prospect:

Map / Photo Ref.:

Project: Gourlays Creek

AMG Zone:

DPO's:

Sample No's: 1140764 - 1140783

Sheet No.: 4

Laboratory:

Collected By:

Date:

080

226081

ASMANIA

CRA EXPLORATION PTY. LTD.

R

Sample Number	LOCATION: Co-ordinates AMG / Grid East	North	Exposure	S. Type	Width (m)	Interval From	To	ROCK TYPE: Major Rock	Minor Rock	Alteration	MINERALISATION: Visible	Style	Major	Minor	Minor	Gangue	LODE	METAL CONTENT ppm / %: Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Ba ppm	Au ppb	Geological Observations
1140784						160	161											440	20	40	2	21·2	1	30	<10	5150	3	
140785						161	162											480	20	35	1	9·61	6	<5	10	6100	5	
1140786						162	163											4800	15	105	4	29·4	8	60	10	1300	45	
140787						163	164											3600	10	35	3	12·2	2	665	10	2150	55	
140788						164	165											360	5	20	1	9·75	<1	5	<10	1200	5	
1140789						165	166											410	10	10	1	7·50	3	80	10	1000	<3	
1140790						166	167											370	5	10	1	6·48	2	30	10	1250	3	
1140791						167	168											380	15	10	1	6·17	<1	90	<10	950	<3	
1140792						168	169											560	15	10	1	5·80	<1	25	10	750	<3	
140793						169	170											160	20	15	1	7·64	<1	15	10	550	3	
1140794						170	171											200	20	20	1	8·11	<1	10	10	450	<3	
1140795						171	172											440	20	15	1	9·78	<1	15	10	700	<3	
1140796						172	173											3600	20	25	2	17·3	<1	55	<10			
1140797						173	174											1250	20	25	2	13·2	<1	5	<10			
1140798						174	175											3600	15	20	2	13·9	<1	<5	10			
140799						175	176											2200	10	15	1	9·4	<1	<5	<10			
1140800						176	177											560	30	10	1	7·51	<1	25	<10			
140801						177	178											260	15	25	2	7·61	<1	45	10			
140802						178	179											145	20	10	2	7·56	<1	<5	10			
140803						179	180											240	25	30	2	8·64	<1	25	10			
																		2	5	2	1	0·01	1	5	10	10	3	
																		6001	6001	6001	6001	6001	6001	XRFIA	XRFIA	XRFIA	Pm205	

GEOCHEMICAL ROCK SAMPLING LEDGER

DETECTION LIMIT

ANALYTICAL METHOD

Tenement Name:

Area / Prospect:

Map / Photo Ref.:

Project: GOURLAYS Creek 1 AMG Zone:

DPO's:

Sample No's: 1140784-1140803

Sheet No.: 5

Laboratory:

Collected By: Date:

Updated June 1983

081

226082

TASMANIA

CRA EXPLORATION PTY. LTD.

R

Sample Number	LOCATION: Co-ordinates AMG / Grid East	North	Exposure	S. Type	Width (m)	Interval From	To	ROCK TYPE: Major Rock	Minor Rock	Alteration	MINERALISATION: Visible	Style	Major	Minor	Minor	Gangue	100%	METAL CONTENT ppm / %: Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Ba ppm	Au ppb	Geological Observations
1140804						180	181											125	20	30	2	12.4	<1	5	<10			
1140805						181	182											155	15	20	2	7.47	1	5	<10			
1140806						182	183											300	15	15	2	8.54	<1	5	10			
1140807						183	184											130	20	30	2	9.91	<1	<5	<10			
1140808						184	185											85	20	25	2	9.56	<1	25	10			
1140809						185	186											110	20	10	1	7.12	<1	<5	<10			
1140810						186	187											280	15	15	1	7.39	<1	<5	<10			
1140811						187	188											390	20	25	3	11.6	1	<5	<10			
1140812						188	189											300	15	20	2	8.74	<1	<5	10			
1140813						189	190											50	15	15	2	7.08	<1	<5	<10			
1140814						190	191											60	15	20	2	7.05	<1	<5	<10			
1140815						191	192											240	15	15	2	7.26	<1	<5	<10			
1140816						192	193											230	20	15	3	6.63	<1	<5	<10			
1140817						193	194											80	20	20	2	6.39	<1	<5	<10			
1140818						194	195											50	20	15	2	5.72	<1	<5	<10			
1140819						195	196											50	20	20	1	5.82	<1	<5	10			
DETECTION LIMIT																		2	5	2	1	001	1	5	10	10	3	
ANALYTICAL METHOD																		6001	6001	6001	6001	6001	6001	XRFIA	XRFIA	XRFIAPm205		

GEOCHEMICAL ROCK SAMPLING LEDGER

Tenement Name:

Area / Prospect:

Map / Photo Ref.:

Project: Gourlays Creek AMG Zone:

OPO's:

Sample No's: 1140804 - 1140819

Sheet No.: 6

Laboratory:

Collected By: Date:

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226083

DDH GC2 DRILL LOG

226084

083

SHEET 1 OF 5

GEOPEKO TASMANIA DRILL LOG

Prospect Gourlay's Creek Hole no. GC-2

DEPTH (m) from	DEPTH (m) to	SAMPLED Log	ANGLE TO CORE AXIS -Sa	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	Fracturing /m	Sample No.	From (m)	To (m)	Rec (%)	ASSAYS (Lab: ALS) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm
0	2							COLLAR	1140820	0	2		190	30	75	2	11·6	5	15	<10
2	4								1140821	2	4		55	20	50	1	5·90	2	5	<10
4	6	Pre-collar						Pc	1140822	4	6		25	20	40	1	4·37	1	<5	<10
6	8								1140823	6	8		40	20	40	1	4·87	1	<5	<10
8	10								1140824	8	10		100	25	45	1	5·62	1	<5	<10
10	12								1140825	10	12	Pre-collar percussion	70	20	40	1	5·99	1	<5	<10
12	14								1140826	12	14		55	20	35	1	7·07	1	25	<10
14	15				Denah quartzite with fe staining on joint planes. Quartz breccias and quartz vein filling.	Oxidation		15-20	1140551	14	15	59	80	15	40	1	4·36	260	90	<10
15	16							10-15	1140552	15	16	114	20	10	30	2	5·91	16	<5	<10
16	17							10-15	1140553	16	17	—	20	10	30	2	4·99	95	<5	<10
17	18							15-20	1140554	17	18	100	30	10	30	2	4·30	10	<5	<10
18	19							>20	1140555	18	19	100	30	10	30	2	4·21	11	<5	<10
19	20							>20	1140556	19	20		20	10	20	2	5·68	8	<5	<10
20	21							>20	1140557	20	21	104	20	15	25	1	5·41	8	<5	<10
21	22							10-15	1140558	21	22	64	45	10	20	1	5·91	6	<5	<10
22	23							>20	1140559	22	23	—	60	10	30	1	6·07	13	<5	<10
23	24				Schistosity developing with vein sheeting &			>20	1140560	23	24	140	185	10	40	1	4·92	10	15	<10
24	25				circulations			15-20	1140561	24	25	39	165	10	25	1	2·71	16	15	<10
25	26							15-20	1140562	25	26		80	10	45	1	3·87	13	10	<10
26	27							>20	1140563	26	27	100	60	10	35	1	3·77	16	5	<10
27	28				white spotted unit - quartz/feldspar			>20	1140564	27	28	—	25	5	30	1	6·06	21	<5	<10
28	29							>20	1140565	28	29	94	20	10	40	1	5·04	8	<5	<10
29	30				Lower S zone at 30·1m	chlorite		>20	1140566	29	30	100	70	10	40	1	5·02	16	25	<10
30	31				quartz infill plus chlorite & possible tourmaline			>20	1140567	30	31	75	40	10	25	<1	2·50	12	105	<10
31	32							>20	1140568	31	32	60	15	10	40	1	2·54	7	35	<10
32	33							>20	1140569	32	33	100	60	10	30	1	2·55	24	10	<10
33	34				Level of oxidation continues to 90m			>20	1140570	33	34	80	50	10	20	<1	2·29	23	<5	<10
34	35							15-20	1140571	34	35	62	20	10	25	1	2·52	5	<5	<10
35	36				Ground is very broken			>20	1140572	35	36	100	20	15	40	1	2·87	18	5	10
36	37							>20	1140573	36	37	—	10	20	45	1	3·37	2	<5	<10
37	38							>20	1140574	37	38	93 20	10	15	40	1	3·26	<1	5	<10
38	39							>20	1140575	38	39	53	30	10	30	1	3·14	<1	<5	10
39	40							>20	1140576	39	40	94	65	10	20	1	3·24	24	<5	<10
40	41				Quartz mica schist with chlorite	chlorite		15-20	1140577	40	41	86	50	10	30	1	3·64	18	<5	<10
41	42				developing in vein veins and			15-20	1140578	41	42		20	20	35	1	3·44	4	5	<10
42	43				parallel to schistosity			10-15	1140579	42	43	108	20	15	30	1	3·57	3	<5	<10
43	44							15-20	1140580	43	44	—	40	20	30	1	2·69	12	5	<10
44	45							10-15	1140581	44	45		165	15	40	1	4·74	11	<5	<10

GEOPEKO TASMANIA DRILL LOG

Prospect Courtay's Creek Hole no. GC-2

DEPTH (m) from	DEPTH (m) to	graphic log	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION Po/Sp	MINERALISATION Ba	MINERALISATION Mag	Fracturing
45	46										
46	47										
47	48										
48	49										
49	50				At 50.5m Quartz breccia						
50	51				Massive magnetite with minor					75%	
51	52				pyrite filled fractures		10%				
52	53				The magnetite is bounded top and						
53	54				bottom by quartz veins. The						
54	55				footwall vein is filled with pyrite						
55	56										
56	57				The sequence of quartzites						
57	58				and quartz mica schists						
58	59				continues to 71.0m						
59	60										
60	61										
61	62										
62	63										
63	64										
64	65										
65	66										
66	67										
67	68										
68	69										
69	70										
70	71				Magnetite barite pyrite rock.		1	tr		1	
71	72				This is a banded rock with banding		1	tr	2	10	
72	73				parallel to bedding in overlying		20		15	25	
73	74				sediments. Magnetite/pyrite occur						
74	75				as discrete bands; barite as						
75	76				5 to 10cm wide bands						
76	77				Pyrite content increases from 1% at 72m						
77	78				at top to 50% at bottom of section						
78	79				From 73m to 97m, quartzites						
79	80				and quartz mica schists have been						
80	81				metamorphosed to biotite hornfels	chlorite					
81	82				Chloritic development is common near						
82	83				fractures showing obvious fluid						

Fracturing: Broken core very close to Gouge and strike Longitudinal

Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab: ACS) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Ba ppm	Au ppb
1140582	45	46	100	710	15	30	2	5.02	12	<5	10		
1140583	46	47		60	20	40	1	4.89	14	<5	<10		
1140584	47	48		40	15	30	1	6.01	5	<5	<10		
1140585	48	49	105	25	15	30	1	5.82	55	<5	<10		
1140586	49	50		45	15	35	1	5.96	11	<5	<10	700	20
1140587	50	51		70	20	35	2	28.6	6	<5	<10	570	10
1140588	51	52	105	2300	25	40	5	49.5	29	<5	10	250	160
1140589	52	53		50	15	25	1	3.22	11	5	<10	1800	<5
1140590	53	54	94	40	15	30	1	3.84	12	<5	<10	1700	3
1140591	54	55	84	35	20	35	3	5.11	18	<5	<10	1500	90
1140592	55	56		25	20	35	3	5.17	18	<5	<10	1400	15
1140593	56	57	106	30	20	30	2	5.06	20	<5	<10	1200	10
1140594	57	58		25	15	35	2	4.12	20	<5	<10	1400	3
1140595	58	59	46	20	10	25	2	4.33	10	<5	<10	1300	5
1140596	59	60		45	10	35	2	4.00	16	<5	<10	1500	10
1140597	60	61	100	50	30	65	3	8.15	5	<5	<10	550	3
1140598	61	62		120	10	25	3	4.06	16	<5	10	1900	10
1140599	62	63		75	20	40	3	6.03	16	<5	<10	1400	3
1140600	63	64	87	50	25	45	3	7.97	19	<5	<10	1100	10
1140601	64	65		15	25	50	3	6.77	5	5	<10	1300	3
1140602	65	66	66	50	15	20	3	4.34	10	<5	<10	2000	5
1140603	66	67	100	40	20	40	3	7.64	7	<5	<10	2400	5
1140604	67	68	91	60	15	60	3	5.82	6	<5	<10	2200	3
1140605	68	69		40	20	30	3	6.89	9	<5	<10	2500	5
1140606	69	70	60	125	30	30	4	31.5	60	10	10	1000	5
1140607	70	71		100	15	15	2	6.88	6	<5	<10	1900	3
1140608	71	72	94	940	20	35	4	28.4	40	15	10	2400	3
1140609	72	73		330	20	30	4	38.1	105	10	<10	1700	15
1140610	73	74		350	15	15	3	6.07	22	<5	<10	2200	10
1140611	74	75	100	250	15	20	3	11.3	11	<5	<10	1700	3
1140612	75	76		190	10	25	3	9.97	3	<5	<10	770	5
1140613	76	77	100	50	10	15	2	7.24	2	<5	<10	380	3
1140614	77	78		80	10	30	2	7.66	3	<5	<10	1100	<5
1140615	78	79	100	30	10	20	2	5.93	5	<5	<10	1300	5
1140616	79	80		45	20	20	2	6.27	2	<5	<10	1200	3
1140617	80	81	100	70	20	30	2	3.97	4	5	<10	1500	11
1140618	81	82		40	25	40	2	5.48	6	5	<10	1200	5
1140619	82	83	100	25	20	25	2	3.62	5	<5	<10	1300	11
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SHEET 3 OF 5

GEOPEKO TASMANIA DRILL LOG

Prospect Gourlay's Creek Hole no. GC-2

DEPTH (m) from	DEPTH (m) to	Graphic Log	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION mBA	Fracturing	Sample No.	From (m)	To (m)	Rec (%)	ASSAYS (Lab:) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sr ppm	U ppm	Ba ppm	Au ppb
83	84				Channels				>20	1140620	83	84	100	20	15	15	2	4.07	4	<5	<10	1500	3
84	85				Biotite concentrations occur as				15-20	1140621	84	85	89	40	20	20	1	4.55	2	<5	<10	1400	3
85	86				oblong spots roughly elongated				20	1140622	85	86	116 100	55	20	50	2	6.07	2	<5	<10	1100	5
86	87				parallel to cleavage				10	1140623	86	87		15	15	20	2	5.71	2	<5	<10	1000	10
87	88				Mineralisation is very patchy				5-10	1140624	87	88	94	15	15	15	1	5.31	5	<5	<10	820	3
88	89				with minor pyrite visible in				5	1140625	88	89		70	15	10	1	5.39	3	<5	<10	570	3
89	90				quartz veins				5	1140626	89	90	97	65	15	15	1	5.43	<1	<5	<10	460	5
90	91								5	1140627	90	91		115	15	15	1	6.02	<1	<5	<10	490	<3
91	92								5-10	1140628	91	92	115	50	15	20	1	5.86	<1	<5	<10	370	<3
92	93								5-10	1140629	92	93		40	15	20	1	5.81	1	<5	<10	300	<3
93	94						1%	tr	5-0	1140630	93	94	100	20	15	15	2	8.50	4	<5	<10	220	<3
94	95						tr		5	1140631	94	95		60	15	20	2	10.9	2	<5	<10	300	<3
95	96								0-20	1140632	95	96	100	140	20	25	2	11.9	4	<5	<10	390	5
96	97				Pyrite content increasing to 5-10%		5-10		>20	1140633	96	97		2000	20	20	2	14.3	26	<5	<10	780	5
97	98						3		5	1140634	97	98	97	340	20	20	3	19.3	95	<5	10	1200	15
98	99				At 99m, cleavage traces more		1		10-20	1140635	98	99		780	15	25	2	9.65	20	<5	<10		5
99	100				obvious. Quartz veins with diopside				5-10	1140636	99	100	106	260	20	20	2	9.46	5	<5	<10		
100	101				rich boundaries				5	1140637	100	101		90	15	20	1	6.44	2	<5	<10		
101	102				Biotite is elongated parallel		<1%		5	1140638	101	102		80	15	30	2	7.23	3	<5	<10		
102	103				to cleavage				10-15	1140639	102	103	92	195	20	105	2	9.30	13	<5	<10		
103	104								>20	1140640	103	104	100	250	20	40	2	15.9	55	<5	<10		25
104	105								>20	1140641	104	105	100	240	20	25	1	9.26	30	<5	<10		
105	106				Biotite horn-els continues				>20	1140642	105	106	80	115	20	25	2	9.60	7	<5	<10		
106	107				to end of hole				>20	1140643	106	107	130	55	20	30	2	9.30	<1	<5	<10		
107	108				Sulphide content varies				>20	1140644	107	108	100 71	70	20	40	2	7.75	<1	<5	<10		
108	109				as does biotite content.				>20	1140645	108	109	100	95	20	25	1	8.40	<1	<5	<10		<3
109	110								>20	1140646	109	110		110	20	35	1	6.76	<1	<5	<10		
110	111								>20	1140647	110	111	87	40	20	30	1	6.97	<1	<5	<10		
111	112								>20	1140648	111	112		70	20	40	1	9.60	20	<5	<10		
112	113								>20	1140649	112	113	107	160	15	50	2	7.38	<1	<5	<10		
113	114								>20	1140650	113	114		30	15	45	2	9.72	<1	<5	<10		
114	115								>20	1140651	114	115	100	60	15	65	1	6.66	3	<5	<10		
115	116								>20	1140652	115	116	29	40	15	65	1	5.06	<1	<5	<10		
116	117								>20	1140653	116	117	35	10	20	30	1	4.66	<1	<5	<10		
117	118								>20	1140654	117	118		15	20	60	1	5.80	1	<5	<10		<3
118	119								>20	1140655	118	119	7	40	15	30	2	7.63	7	25	<10		
119	120								>20	1140656	119	120	75	35	15	25	2	9.07	6	50	<10		
120	121								>20	1140657	120	121		10	15	25	2	8.12	3	<5	<10		

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SHEET 4 OF 5

GEOPEKO TASMANIA DRILL LOG

Prospect Gourlays Creek Hole no. GC-2

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION	Fracturing	Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab: ALS) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Bi ppm	Au ppb
121	122							>20	1140658	121	122		10	15	25	2	8.66	2	15	<10		
122	123							>20	1140659	122	123	100	10	20	25	2	16.9	<1	5	<10		<3
123	124							>20	1140660	123	124		10	15	30	2	9.24	3	<5	<10		
124	125							>20	1140661	124	125	93	20	30	25	2	16.4	<1	<5	<10		
125	126							>20	1140662	125	126		20	20	30	2	11.5	<1	<5	<10		
126	127							>20	1140663	126	127	100	130	20	35	2	8.59	1	<5	<10		
127	128							>20	1140664	127	128	94	70	15	30	1	8.41	<1	<5	<10		<3
128	129							>20	1140665	128	129		105	20	30	1	7.71	<1	<5	<10		
129	130							>20	1140666	129	130	111	120	20	40	2	9.52	<1	<5	<10		
130	131							>20	1140667	130	131	100	390	20	45	3	12.2	<1	<5	10		
131	132							>20	1140668	131	132		40	15	30	2	7.03	<1	<5	10		
132	133							>20	1140669	132	133	95	10	10	15	2	7.81	<1	<5	<10		<3
133	134							>20	1140670	133	134		35	15	30	2	8.52	<1	5	10		
134	135							>20	1140671	134	135		35	15	10	2	7.64	<1	<5	<10		
135	136							>20	1140672	135	136	113	420	25	20	2	6.03	<1	5	<10		
136	137							>20	1140673	136	137		110	15	10	2	6.63	<1	<5	<10		5
137	138							>20	1140674	137	138	92	220	15	20	2	5.51	<1	<5	<10		
138	139							>20	1140675	138	139	93	90	15	35	2	5.29	<1	<5	<10		
139	140							>20	1140676	139	140		80	10	25	2	5.75	<1	10	10		
140	141							>20	1140677	140	141	112	200	15	15	2	6.17	<1	<5	<10		
141	142							>20	1140678	141	142	96	130	15	15	2	7.07	2	<5	10		
142	143							>20	1140679	142	143		300	20	25	7	7.41	1	<5	<10		5
143	144							>20	1140680	143	144		190	15	25	2	9.11	2	<5	<10		
144	145							>20	1140681	144	145	100	200	20	30	2	12.5	<1	<5	10		
145	146							>20	1140682	145	146	100	70	20	20	2	13.7	<1	<5	<10		
146	147							5-10	1140683	146	147		25	30	25	2	10.9	3	<5	10		
147	148							10-15	1140684	147	148	100	20	30	15	2	8.9	11	<5	<10		5
148	149							10-15	1140685	148	149		40	30	10	2	12.6	16	<5	10		
149	150							10-15	1140686	149	150		65	30	20	2	12.1	5	<5	<10		
150	151							5-10	1140687	150	151	100	1050	15	15	1	6.69	<1	<5	<10		
151	152							5-10	1140688	151	152		175	15	20	2	9.46	4	<5	<10		
152	153							10	1140689	152	153	95	1100	10	10	1	3.48	3	<5	<10		25
153	154							10-15	1140690	153	154		760	10	10	1	3.29	2	<5	10		
154	155							20	1140691	154	155	100	460	15	10	2	6.83	<1	<5	<10		
155	156							10-15	1140692	155	156		210	20	20	1	7.27	1	<5	<10		
156	157							5-10	1140693	156	157	97	100	15	25	2	8.56	1	<5	<10		
157	158							5-10	1140694	157	158		150	10	5	1	6.32	<1	<5	10		5
158	159							10-15	1140695	158	159	100	165	10	5	1	6.64	2	25	10		

226088

GEOPEKO TASMANIA DRILL LOG

Prospect Courtney's Creek Hole no. GC-2

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION cpy	Fracturing	Sample No.	From (m)	To (m)	Rec (%)	ASSAYS (Lab: ALS) Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	As ppm	Sn ppm	W ppm	Bi ppm	Au ppb
159	160						<1%	tr	>20	1140696	159	160	100	520	10	10	2	9.04	4	<5	10		
160	161						.5%		>20	1140697	160	161	50	130	15	85	2	6.63	3	20	10		
161	162						<1%		>20	1140698	161	162	109	490	10	10	2	5.89	<1	<5	<10		
162	163						1%		>20	1140699	162	163	100	300	15	10	2	5.90	<1	<5	<10		5
163	164						.5		>20	1140700	163	164	100	50	10	15	2	5.26	<1	<5	<10		
164	165						1		>20	1140701	164	165		140	15	10	2	7.33	2	<5	10		
165	166						<1		>20	1140702	165	166	100	65	15	10	2	7.07	<1	<5	<10		
166	167						<1		>20	1140703	166	167		140	15	15	2	6.93	<1	<5	<10		5

088

226089

CMS REPORT ON BANDED MAGNETITE IN QUARTZITES

089

226090

Appendix 7

Central Mineralogical Services

39 Beulah Road
Norwood, S.A. 5067
Telephone 42 5659

Mr. C. Kendall
Geologist
Geopeko
P.O. Box 598
DEVONPORT / TAS. 7310

3rd November, 1983

REPORT CMS 83/10/39

YOUR REFERENCE:	D.P.O. No. 31870
DATE RECEIVED:	20th October, 1983
SAMPLE NOS.:	KR 13164
SUBMITTED BY:	C. Kendall
WORK REQUESTED:	Petrology

H.W. Fander, M. Sc.

Copy & Invoice to:
Administration Officer
C.R.A. Exploration Pty. Ltd.
P.O. Box 138
ROSNY PARK / TAS. 7018

090

226091

CENTRAL MINERALOGICAL SERVICES PTY. LTD.

Date 3rd November, 1983

SAMPLE REPORT (Mineralogy, Petrology, Ore Microscopy)

IDENTIFICATION
KR 13164
Metajaspilite

Job No. CMS 83/10/39 Date Received: 20.10.1983

Reference D.P.O. No. 31870

Sample No. KR 13164

Nature of Sample: Hand Specimen

DESCRIPTION **SECTION No.** 47789

a. Hand Specimen:

Dark, granular, banded crystalline rock; strongly magnetic.

b. Microscopic:

This is a banded magnetite-metaquartzite or metajaspilite; it is believed to represent a metamorphosed banded iron formation, and thus the magnetite originated from a primary (syngenetic) iron oxide. The rock is a product of contact-metamorphism, and is assigned to the albite-epidote hornfels facies (biotite zone).

The two major constituents are polygonal quartz grains and euhedral magnetite crystals, forming separate and mixed bands. Small, randomly orientated biotite flakes are interspersed, and there are jarosite aggregates representing oxidised granular pyrite (?syngenetic). Some of the thinner bands of fine magnetite occur within coarser quartz grains, which is typical of recrystallized banded material representative of banded iron formations of chemical origin.

H.W. Fander, M. Sc.

ANALYSIS COMPARISIONS

092

226093

APPENDIX 8.

Sample No	Cu	Pb	Zn	Ag	Fe	Bi	Mo	As	Sn	W	
1140 203	180	x	60	x	10.6	x	x	12	x	4	ANALYSES
1140 251	110	10	40	1	11	<5	2	-	<5	<10	ALS.
1140 284	30	5	100	x	3.10	x	x	9	x	x	
1140 284	25	25	95	1	3.62	<5	2	-	5	<10	
1140 230	165	15	80	x	6.45	x	10	180	76	6	
1140 230	145	30	90	1	11.5	<5	5	80	50	<10	
1140 231	185	30	115	x	12.3	x	10	21	271	x	
1140 231	125	50	90	1	11.5	<5	5	20	270	20	
1140 233	55	5	50	x	4.35	\	x	13	5	x	
1140 233	50	30	50	<1	4.92	<5	2	10	5	10	
1140 306	320	15	110	x	13.1	x	x	10	10	x	
1140 306	300	30	105	2	11.0	<5	5	-	15	<10	
1140 337	110	10	80	x	3.65	x	x	5	x	x	
1140 337	110	30	70	2	0.5	<5	10	<1	<5	<10	
1140 337	245	5	60	x	4.35	x	x	13	3	x	
1140 337	185	20	50	<1	5.65	<5	5	8	10	10	
1140 406	50	5	60	0.5	1.55	x	x	6	x	\	
1140 405	45	25	50	1	1.55	<5	5	5	<5	10	
1140 416	30	25	270	x	3.00	x	x	12	163	x	
1140 415	50	45	220	1	10.2	<5	<2	3	85	<10	
1140 426	4600	40	205	0.5	21.8	x	10	25	242	16	
1140 425	5200	45	145	>5	17.9	<5	5	22	205	10	
1140 436	535	15	155	x	7.65	x	x	9	34	x	
1140 435	80	30	180	<1	12.8	<5	2	<1	<5	<10	
1140 446	140	35	110	x	3.80	x	x	11	x	x	
1140 445	40	55	120	1	4.02	<5	2	4	5	<10	
1140 456	50	5	30	0.5	1.85	x	x	3	4	4	
1140 455	40	20	80	<1	2.24	<5	2	<1	<5	<10	
1140 466	110	20	160	x	7.75	x	10	33	40	x	
1140 465	160	35	140	<1	7.88	<5	5	30	180	<10	

093

226094

DDH GC3 DRILL LOG

094

226095

DIAMOND DRILLING HOLE PROPOSAL

HOLE:	GC-3
COLLAR CO ORDINATES:	11100N 2515E
DECLINATION:	-55°
AZIMUTH	270° GRID WEST
PROPOSED LENGTH:	380m

TARGET:

1. A combined IP and UTEM defined conductive zone of 50 metres width at a depth of approximately 50 metres. This zone is interpreted as a series of parallel units, some of which appear to come to surface.
   The surface geochem survey showed two distinct Sn anomalies corresponding to the eastern and western margins of this 50 metre wide zone.
   The magnetic profile on line 11100N shows a 1000nT anomaly to the east of the main magnetic anomaly. An interpretation of this anomaly suggest a possible pyrrhotite body buried at 50 to 75 metres.
   The IP and UTEM surveys demonstrated that this zone has continuous strike length over at least 600 metres.
   The well defined Sn geochem anomaly is centred over this zone and is still open to the south.

2. The down dip extension of the pyroxene magnetite skarn intersected in DDH GC1. This unit has anomalous Sn values up to 0.3%.
   With a potential granite source at depth, it is anticipated that mineralization will increase down dip along the skarn horizon. The Sn values in DDH CG-1 and in the soil geochem survey are interpreted as a dispersion halo around a larger mineralized zone. Analogies to this situation are found in the skarn horizons at the King Island Bold Head orebody.
   This hole would test this skarn at a vertical depth of 170 metres.

3. The down dip extension of the massive pyrite and banded pyrite/magnetite rock intersected in DDH GC 1 which carried Sn values up to 0.1%.
   Again, better tin values are interpreted down dip towards the mineralizing source granite.

095

226096

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Office & Laboratory
32 Shand Street
Stafford, Q. 4053
PO Box 66,
Everton Park, Q. 4053
Phone: (07) 352 5577
Telex: ALSEV 42344

Client: CRA EXPLORATION PTY. LIMITED

Address: P.O. BOX 138
ROSNY PARK
TASMANIA 7018

Batch Number: E078

Contact: MR. T. DICKSON

Order No. 31887 Sample Type: 1/D CORE

No. of Samples: 34
Date Received: 14/05/84
Date Completed: 23/05/84

SAMPLE NUMBER	Element Unit Method	Cu ppm G001	Pb ppm G001	Zn ppm G001	Ag ppm G001	Fe % G001
[illegible]		[illegible]	[illegible]	135	[illegible]	[illegible]
KR 10502		350	25	55	1	1.63
[illegible]		[illegible]	[illegible]	50	[illegible]	[illegible]
KR 10504		25	10	35	<1	0.83
[illegible]		[illegible]	[illegible]	35	[illegible]	[illegible]
KR 10506		10	15	30	<1	0.99
[illegible]		[illegible]	[illegible]	50	[illegible]	[illegible]
KR 10508		30	20	65	1	2.67
[illegible]		[illegible]	[illegible]	60	[illegible]	[illegible]
KR 10510		40	75	1200	1	2.66
[illegible]		[illegible]	[illegible]	110	[illegible]	[illegible]
KR 10512		25	20	90	1	9.87
[illegible]		[illegible]	[illegible]	105	[illegible]	[illegible]
KR 10514		125	20	45	2	4.03
[illegible]		[illegible]	[illegible]	80	[illegible]	[illegible]
KR 10516		35	40	25	2	2.70
[illegible]		[illegible]	[illegible]	40	[illegible]	[illegible]
KR 10518		80	40	120	2	2.93
[illegible]		[illegible]	[illegible]	45	[illegible]	[illegible]
KR 10520		85	30	50	1	2.70
[illegible]		[illegible]	[illegible]	20	[illegible]	[illegible]
KR 10522		160	25	25	1	3.62
[illegible]		[illegible]	[illegible]	45	[illegible]	[illegible]
KR 10524		20	30	40	1	1.85
[illegible]		[illegible]	[illegible]	45	[illegible]	[illegible]
KR 10526		220	20	30	1	1.00
[illegible]		[illegible]	[illegible]	35	[illegible]	[illegible]
KR 10528		35	20	30	2	2.63
[illegible]		[illegible]	[illegible]	70	[illegible]	[illegible]
KR 10530		200	25	80	1	3.29
Detection Limit:		2	5	2	1	0.01

Comments:

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TASMANIA 7018

Batch Number: E078

Contact: MR. T. DICKSON

No. of Samples: 34
Date Received: 14/05/84
Date Completed: 23/05/84

Order No. 31887 Sample Type: 1/D CORE

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A	As ppm G004		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10502		110	<10	9		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10504		5	<10	3		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10506		5	<10	4		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10508		<5	<10	5		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10510		5	<10	14		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10512		25	<10	7		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10514		220	<10	7		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10516		220	<10	7		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10518		65	<10	6		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10520		830	<10	3		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10522		480	<10	5		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10524		35	<10	4		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10526		220	<10	4		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10528		360	<10	6		
[redacted]		[redacted]	[redacted]	[redacted]		
KR 10530		700	<10	5		
Detection Limit:		5	10	1		

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TASMANIA 7018

Batch Number: E078

Contact: MR. T. DICKSON

No. of Samples: 34
Date Received: 14/05/84
Date Completed: 23/05/84

Order No. 31887 Sample Type: 1/D CORE

SAMPLE NUMBER	Element / Unit / Method	Cu ppm G001	Pb ppm G001	Zn ppm G001	Ag ppm G001	Fe % G001
KR [illegible]		[illegible]	15	40	[illegible]	[illegible]
KR 10532		720	10	25	1	5.84
KR [illegible]		[illegible]	20	25	[illegible]	[illegible]
KR 10534		1300	15	45	2	23.1
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Detection Limit:		2	5	2	1	0.01

Comments:

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Address: P.O. BOX 138
ROSNY PARK
TASMANIA 7018

Batch Number: E078

Contact: MR. T. DICKSON

No. of Samples: 34
Date Received: 14/05/84
Date Completed: 23/05/84

Order No. 31887 Sample Type: 1/D CORE

SAMPLE NUMBER	Element Unit Method	Sn ppm XRF 1A	W ppm XRF 1A	As ppm G004		
[illegible]		[illegible]	[illegible]	16		
KR 10532		130	<10	8		
[illegible]		[illegible]	[illegible]	8		
KR 10534		75	<10	14		
[illegible]						
Detection Limit:		5	10	1		

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Address: P.O. BOX 138
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TASMANIA 7018

Page 1 of 4

Batch Number: E129

Contact: MR. T. DICKSON

No. of Samples: 50

Order No. 31889

Sample Type: 1/2 CORE

Date Received: 21/05/84

Date Completed: 05/06/84

SAMPLE NUMBER	Element Unit Method	Cu ppm G001	Pb ppm G001	Zn ppm G001	Ag ppm G001	Fe % G001
KR 10569		40	15	30	1	[illegible]
KR 10570		30	15	35	1	2.26
KR 10571		460	15	50	3	[illegible]
KR 10572		155	20	35	2	3.70
KR 10573		125	20	35	2	[illegible]
KR 10574		45	15	35	2	4.38
KR 10575		210	20	135	3	[illegible]
KR 10576		260	65	210	4	18.8
KR 10577		50	120	270	4	[illegible]
KR 10578		260	310	480	9	52.5
KR 10579		220	220	540	7	[illegible]
KR 10580		165	55	220	5	36.5
KR 10581		175	25	60	2	[illegible]
KR 10582		100	30	60	2	8.47
KR 10583		100	30	45	2	[illegible]
KR 10584		250	25	35	2	9.72
KR 10585		2,700	30	90	8	[illegible]
KR 10586		4500	25	50	3	23.4
KR 10587		3250	25	75	3	[illegible]
KR 10588		3250	30	105	4	63.9
KR 10589		730	35	50	3	[illegible]
KR 10590		620	30	45	3	55.6
KR 10591		380	90	45	3	[illegible]
KR 10592		2000	30	45	4	49.8
KR 10593		930	25	35	2	[illegible]
KR 10594		220	25	30	2	18.9
KR 10595		75	25	30	2	[illegible]
KR 10596		1.01 %	20	65	4	15.6
KR 10597		310	20	25	2	[illegible]
KR 10598		570	20	30	2	10.9
Detection Limit:		2	5	2	1	0.01

Comments: Cu : Values >1 % reassayed by Method A101

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Signatory: [signature]

100

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Client: CRA EXPLORATION PTY. LIMITED
Address: P.O. BOX 138
ROSNY PARK
TASMANIA 7018

Batch Number: E129

Contact: MR. T. DICKSON

No. of Samples: 50
Date Received: 21/05/84
Date Completed: 05/06/84

Order No. 31889 Sample Type: 1/2 CORE

SAMPLE NUMBER	Element Unit Method	As ppm G004	Sn ppm XRF 1A	W ppm XRF 1A	Au ppb PM205	
KR 10569		[redacted]	90	<10	[redacted]	[redacted]
KR 10570		3	95	10		
KR 10571		[redacted]	510	10	[redacted]	[redacted]
KR 10572		2	5	<10		
KR 10573		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10574		4	<5	10		
KR 10575		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10576		4	<5	<10	5	
KR 10577		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10578		140	<5	<10	10	
KR 10579		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10580		84	5	<10	<3	
KR 10581		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10582		4	<5	<10	<3	
KR 10583		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10584		<1	<5	<10	10	
KR 10585		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10586		<1	10	10	40	
KR 10587		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10588		<1	5	<10	35	
KR 10589		[redacted]	[redacted]	20	[redacted]	[redacted]
KR 10590		60	<5	<10	10	
KR 10591		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
KR 10592		65	<5	<10	10	
KR 10593		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
KR 10594		14	<5	10	5	
KR 10595		[redacted]	[redacted]	[redacted]	[redacted]	[redacted]
KR 10596		12	5	10		
KR 10597		[redacted]	[redacted]	<10	[redacted]	[redacted]
KR 10598		<1	<5	<10		
Detection Limit:		1	5	10	3	

Comments:

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TASMANIA 7018

Batch Number: E129

Contact: MR. T. DICKSON

Order No. 31889

Sample Type: 1/2 CORE

No. of Samples: 50
Date Received: 21/05/84
Date Completed: 05/06/84

SAMPLE NUMBER	Element Unit Method	Cu ppm G001	Pb ppm G001	Zn ppm G001	Ag ppm G001	Fe % G001
KR [redacted]0599		[redacted]	[redacted] 20	[redacted] 25	[redacted]	[redacted]
KR 10600		460	20	30	2	11.1
KR [redacted]0601		[redacted]	[redacted] 20	[redacted] 35	[redacted]	[redacted]
KR 10602		250	20	30	2	18.0
KR [redacted]0603		[redacted]	[redacted] 10	[redacted] 20	[redacted]	[redacted]
KR 10604		140	15	25	2	8.04
KR [redacted]0605		[redacted]	[redacted] 15	[redacted] 20	[redacted]	[redacted]
KR 10606		75	15	25	2	10.8
KR [redacted]0607		[redacted]	[redacted] 15	[redacted] 25	[redacted]	[redacted]
KR 10608		65	15	25	2	9.67
KR [redacted]0609		[redacted]	[redacted] 15	[redacted] 15	[redacted]	[redacted]
KR 10610		100	15	20	2	9.83
KR [redacted]0611		[redacted]	[redacted] 15	[redacted] 25	[redacted]	[redacted]
KR 10612		50	15	25	2	9.86
KR [redacted]0613		[redacted]	[redacted] 15	[redacted] 25	[redacted]	[redacted]
KR 10614		640	20	25	3	10.1
KR [redacted]0615		[redacted]	[redacted] 20	[redacted] 35	[redacted]	[redacted]
KR 10616		1150	20	25	2	8.29
KR [redacted]0617		[redacted]	[redacted] 20	[redacted] 45	[redacted]	[redacted]
KR 10618		1750	20	25	3	8.58
Detection Limit:		2	5	2	1	0.01

Comments: Cu : Values [redacted]0% reassayed by Method A101

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Signatory: G J Kilminster

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Australian Laboratory Services PTY. LTD.

Incorporated in Queensland

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Office & Laboratory
32 Shand Street
Stafford, Q. 4053
PO Box 66,
Everton Park, Q. 4053
Phone: (07) 352 5577
Telex: ALSEV 42344

Client [illegible]

Address [illegible]

Page 4 of 4

Batch Number: [illegible]

Contact [illegible]

No. of Samples: 50

Order No. [illegible]

Sample Type: [illegible]

Date Received: 21/05/84

Date Completed: 05/06/84

SAMPLE NUMBER	Element / Unit / Method	Au ppb FA/AAS	Sb ppm ICP 40	W ppm ICP 40	Au ppb FA/AAS	
KR 10599		<1	<5	10		
KR 10600		<1	10	<10		
KR 10601		40	<5	20		
KR 10602		35	5	<10		
KR 10603		<1	<5	10		
KR 10604		<1	5	<10		
KR 10605		<1	5	10		
KR 10606		<1	10	<10		
KR 10607		<1	<5	<10		
KR 10608		<1	10	<10		
KR 10609		<1	<5	<10		
KR 10610		<1	15	10		
KR 10611		<1	10	<10		
KR 10612		<1	12	<10		
KR 10613		<1	<5	10		
KR 10614		<1	5	<10		
KR 10615		<1	15	<10		
KR 10616		<1	10	<10		
KR 10617		<1	<5	<10		
KR 10618		<1	<5	<10		
Detection Limit		1	5	10	1	

Comments:

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226104

Australian Laboratory Services PTY. LTD.

Incorporated in Queensland

CONSULTING ANALYTICAL CHEMISTS

LABORATORY REPORT

Office & Laboratory
32 Shand Street
Stafford, Q. 4053
PO Box 66,
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Phone: (07) 352 5577
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Client: [illegible]

Address: [illegible]

Page 3 of 4

Batch Number: [illegible]

Contact: [illegible]

No. of Samples: 10

Order No.: [illegible]

Sample Type: [illegible]

Date Received: 21/8/84

Date Completed: 25/8/84

SAMPLE NUMBER	Element / Unit / Method	Au ppb FA/AA	Sn ppm FA/AA	W ppm FA/AA	Bo ppm PM/MS	
KR 10599		<1	<5	10		
KP 10600		[illegible]	[illegible]	[illegible]		
KR 10601		40	<5	20		
KP 10602		[illegible]	[illegible]	[illegible]		
KR 10603		<1	<5	10		
KP 10604		[illegible]	[illegible]	[illegible]		
KR 10605		<1	5	10		
KP 10606		[illegible]	[illegible]	[illegible]		
KR 10607		<1	<5	<10		
KP 10608		[illegible]	[illegible]	[illegible]		
KR 10609		<1	<5	<10		
KP 10610		[illegible]	[illegible]	[illegible]		
KR 10611		<1	10	<10		
KP 10612		[illegible]	[illegible]	[illegible]		
KR 10613		<1	<5	10		
KP 10614		[illegible]	[illegible]	[illegible]		
KR 10615		<1	15	<10		
KP 10616		[illegible]	[illegible]	[illegible]		
KR 10617		<1	<5	<10		
KP 10618		[illegible]	[illegible]	[illegible]		
Detection Limit		1	5	10	5	

Comments:

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SHEET 1 of 10

GEOPEKO TASMANIA DRILL LOG

Prospect Gourlay's Creek Hole no. GC-3

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION Po	MINERALISATION Cpy	MINERALISATION Mag	Fracturing	Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab)
4	5				BASE OF TERTIARY BASALT	WEATHERED	None	visible								
5	6				Has mottled appearance with											
6	7				many cavities filled with drusy quartz											
7	8															
8	9															
9	10															
10	11															
11	12															
12	13															
13	14															
14	15															
15	16															
16	17				Pyroxene carbonate actinolite chlorite	silicification	tr	1	1		5-10	KL10501				
17	18				rock which has been resilicified - a							KL10502				
18	19				possible "skarn"							KL10503				
19	20											KL10504				
20	21											KL10505				
21	22				chloritic quartz mica schist.	weathered	None	visible			>40	KL10506				
22	23				quartz veining abundant.							KL10507				
23	24				The rock is heavily weathered and											
24	25				broken.											
27	28															
28	29															
29	30															
30	31															
31	32															
32	33															
33	34				Finely laminated siltstone and	minor										
34	35				quartz mica schist with minor	chlorite	None	visible			10-15					
35	36				shale bed.	alteration										
36	37				Banding represents original											
37	38				bedding.											
38	39				Distortion of bedding is caused by											
39	40				quartz veins cross-cutting											
40	41															
41																

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GEOPEKO TASMANIA DRILL LOG

Prospect

Hole no.

DEPTH (m) from	DEPTH (m) to	Sample Log	ANGLE TO CORE AXIS Bo	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	MINERALISATION cpy	MINERALISATION mag	Fracturing	Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab)
42	43															
43	44															
44	45															
45	46															
46	47															
47	48															
48	49															
49	50															
50	51															
51	52															
52	53															
53	54															
54	55															
55	56															
56	57				Black shales, siltstones and						10-15					
57	58				laminated mica schists.	chlorite	tr		tr							
58	59				Shales are slightly graphitic and											
59	60				have minor pyrite on joint											
60	61				planes.											
61	62				Zones of chlorite alteration											
62	64				tend to be heavily fractured											
					& veined											
					fractures											
65	66															
66	67				This sequence of rocks											
67	68				continues to 138m.											
68	69															
69	70				Black shale bands occur											
70	71				at 80-81m; 96-100m;											
71	72															
72	73				Alteration zones where calc-											
73	74				silicate minerals are visible											
74	75				in association with quartz veins											
75	76				have been sampled.											
76	77				Pyrite mineralisation occurs											
77	78				on joints, in cavities and disseminated											
78	79				throughout the rock.											
79	80				Minor pyrrhotite mineralisation											

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GEOPEKO TASMANIA DRILL LOG

Prospect Gourlays Creek Hole no. GC-3

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS Sa	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION Py	MINERALISATION	MINERALISATION	MINERALISATION	Fracturing	Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab:)
80	81				occurs as thin bands parallel to bedding or as cavity filling apparently at the expense of pyrite											
81	82															
82	83															
83	84															
84	85				Pyrrhotite becomes more abundant in the 10 cm wide Calc-silicate zones which occur through the sequence											
85	86															
86	87															
87	88															
88	89											KR10508				
89	90											KR10509				
90	91															
91	92															
92	93															
93	94															
94	95															
95	96															
96	97															
97	98															
98	99															
99	100															
100	101															
103	104															
104	105															
105	106															
106	107															
107	108															
108	109															
109	110															
110	111															
111	112															
112	113															
113	114															
114	115															
115	116															
116	117															
117	118															

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SHEET 4 OF 10

GEOPEKO TASMANIA DRILL LOG

Prospect

Hole no.

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION Py	Po	Cpy	mag	Fracturing	Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab)
118	119															
119	120															
120	121															
121	122															
122	123															
123	124															
124	125															
125	126															
126	127															
127	128															
128	129															
129	130															
130	131				laminated siltstone											
131	132											KR105:10				
132	133											KR105:11				
133	134				Quartz magnetite rock - Magnetite		1			15		KR105:12				
134	135				occuring as veins and bands parallel							KR105:13				
135	136				to bedding.							KR105:14				
136	137				Calc-silicate rock - quartz diopside		1	tr	tr							
137	138				actinolite with minor carbonate											
138	139															
[illegible]	[illegible]															
140	141															
141	142				laminated siltstone to 150m											
142	143				Some narrow magnetite bands		tr	tr								
143	144				visible. Minor pyrite on joints											
144	145				Pyrrhotite disseminated throughout											
145	146				where narrow shale bands occur.											
146	147															
147	148															
148	149															
149	150															
150	151															
151	152															
152	153															
153	154															
154	155															
155	156											KR105:15				

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GEOPEKO TASMANIA DRILL LOG

Prospect

Hole no.

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	MINERALISATION cpy	MINERALISATION —	Fracturing	Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab:)
156	157				Calc-silicate rock							KR10516				
157	158				Diopside-actinolite with calcite veins	silicification	tr	2	tr		5	KR10517				
158	159				Pyrrhotite occurs as veins and as dissemination throughout the calc							KR10518				
159	160											KR10519				
160	161											KR10520				
161	162											KR10521				
162	163				The upper and lower contacts are marked by determination of bedding and foliation							KR10522				
163	164											KR10523				
164	165											KR10524				
165	166											KR10525				
166	167															
167	169				Quartzite and quartz mica schists	chlorite	tr	1	tr	tr	5-10					
169	169															
169	170				This sequence is similar to the upper sequences with greater deformation of bedding											
170	171															
171	172															
172	173															
173	174															
174	175															
175	176															
176	177															
177																
178	179															
179	180															
180	181															
181	182															
182	183															
183	184				Calc-silicate		tr	1-2								
184	185				Calc-silicate		-	<1								
185	186				Calc-silicate			tr				KR10526				
186	187				Calc-silicate			tr				KR10527				
187	188				Calc-silicate (spotted)			tr				KR10528				
188	189				Calc-silicate (spotted)			1				KR10529				
189	190				Calc-silicate	skarn		1				KR10530				
190	191				Pyroxene skarn		tr	1-2	tr	1		KR10531				
191	192				Pyroxene skarn		1	3-5	1	3		KR10532				
192	193				Pyroxene skarn		1	3	tr	1		KR10533				
193	194				Pyroxene/magnetite skarn		1	5	1	5		KR10534				

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GEOPEKO TASMANIA DRILL LOG

Prospect

Hole no.

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS Bo	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION PY	MINERALISATION Cpy	MINERALISATION Fracturing	Sample No.	From (m)	To (m)	Rec ( )	ASSAYS (Lab:)
194	195				Magnetite, pyroxene, pyrrhotite skarn		1	5 tr 3		KR10535				
195	196				skarn - pyrrhotite rich		1	5-7 tr 1-2		KR10536				
196	197				laminated hornfels			3-5 1		KR10537				
197	198				pyrrhotite skarn			3-5 1		KR10538				
198	199				laminated biotite rich siltstone/quartzite					KR10539				
199	200				hornfels		None	visible		KR10540				
200	201				silicified pyrrhotite rich skarn??			5% -		KR10541				
201	202				hornfels					KR10542				
202	203				Calc silicate		none			KR10543				
203	204				Calc silicate					KR10544				
204	205				laminated siltstone					KR10545				
205	206				siltstone	Calc silicate		<1%		KR10546				
206	207				siltstone	Calc silicate				KR10547				
207	208				hornfelsed siltstone with calc silicate alteration - minor mineralisation - mostly cpy/po					KR10548				
208	209									KR10549				
209	210									KR10550				
210	211									KR10551				
211	212									KR10552				
212	213									KR10553				
213	214									KR10554				
214	215									KR10555				
										KR10556				
					Calc silicate		tr	tr tr tr		KR10557				
217	218				Calc silicate					KR10558				
218	219				hornfelsed siltstone (mineralised)	Calc silicate	tr	<1% tr		KR10559				
219	220				"					KR10560				
220	221				"					KR10561				
221	222				"					KR10562				
222	223				"					KR10563				
223	224				"					KR10564				
224	225				"					KR10565				
225	226				"					KR10566				
226	227				"					KR10567				
227	228				"					KR10568				
228	229				Biotite hornfels (un-mineralised)									
229	230				This sequence continues to 304m									
230	231													
231	232					Calc silicate	tr	tr						

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GEOPEKO TASMANIA DRILL LOG

Prospect

Hole no.

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS Sa	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	MINERALISATION cpy	MINERALISATION mag	Fracturing	Sample No	From (m)	To (m)	Rec ( )	ASSAYS (Lab.)
232	233															
233	234															
234	235															
235	236															
236	237															
237	239															
238	239															
239	240															
240	241															
241	242															
242	243															
243	244					Qtz-Sericite	tr	tr	tr							
244	245															
245	246															
246	247															
247	248															
248	249															
249	250															
250	251															
251	252				Quartz veining with pyrite & pyrrhotite											
252	253											KR10569				
												KR10570				
254												KR10571				
255	256															
256	257															
257	258															
258	259															
259	260															
260	261															
261	262															
262	263															
263	264															
264	265															
265	266															
266	267															
267	268															
268	269															
269	270					Fault Silicate										

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GEOPEKO TASMANIA DRILL LOG

Prospect

Hole no.

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	MINERALISATION cpy	MINERALISATION —	Fracturing	Sample No	From (m)	To (m)	Rec ( )	ASSAYS (Log)
270	271				Biotite hornfels						5					
271	272				"		NONE VISIBLE				>20					
272	273				"						5					
273	274				"						5					
274	275				Biotite hornfels with actinolite/Cq veins			tr			5					
275	276				Biotite hornfels											
276	277				"											
277	278				"											
278	279				"											
279	280				Biotite hornfels = minor											
280	281				quartz veining some											
281	282				Calc-silicate alteration											
282	283				"											
283	284				"											
284	285				"											
285	286				Calc-silicate with minor sulphide		tr	tr				KR10572				
286	287				"							KR10573				
287	288				"		1%	tr				KR10574				
288	289				"		1%	1-2%	tr	1%		KR10575				
289	290				" GARNET BANDS		1-2%	>3%	1%	5%		KR10576				
290	291				" GARNET BANDS		1%	1%	tr	1		KR10577				
							15	2	c			KR10578				
292	293						1	3	-			KR10579				
293	294				Banded Sulphides/Magnetite		10	1	1	10		KR10580				
294	295				Spotted biotite hornfels		1	tr			220	KR10581				
295	296				Spotted biotite hornfels		tr	tr				KR10582				
296	297				Spotted biotite hornfels		tr	tr				KR10583				
297	298				Spotted biotite hornfels		tr	1%	tr	tr		KR10584				
298	299				Pyrite/Cpy veins		10	1	5			KR10585				
299	300				Spotted biotite hornfels		tr	tr	tr			KR10586				
300	301				Banded Sulphides - Pyrite/Cpy							KR10587				
301	302				banding parallel to bedding							KR10588				
302	303				Generally appear syngenetic							KR10589				
303	304				Top and bottom contacts may							KR10590				
304	305				represent zones of remobilised							KR10591				
305	306				sulphides							KR10592				
306	307											KR10593				
307	308											KR10594				

226113

GEOPEKO TASMANIA DRILL LOG

Prospect

Hole no.

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION	MINERALISATION	MINERALISATION	Fracturing	Sample No	From (m)	To (m)	Rec (%)	ASSAYS (Lab:)
309	309															
309	310				From 308m to END OF HOLE											
310	311				at 376m.											
311	312				Sequence is biotite hornfels											
312	313				and quartzites with											
313	314				disseminated pyrite.											
314	315															
315	316				An alteration zone at											
316	317				the end of the hole							KR10595				
317	318				(372 - 375) represents							KR10596				
318	319				a quartz vein which has							KR10597				
319	320				acted as a conduit							KR10598				
320	321				Sulphides include pyrite chalco							KR10599				
321	322				pyrite and pyrrhotite							KR10600				
322	323											KR10601				
323	324											KR10602				
324	325											KR10603				
325	326															
326	327															
327	328															
328	329															
												KR10604				
331	332															
332	333															
333	334															
334	335											KR10605				
335	336															
336	337															
337	338															
338	339															
339	340											KR10606				
340	341															
341	342															
342	343															
343	344															
344	345											KR10607				
345	346															

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SHEET 10 OF 10

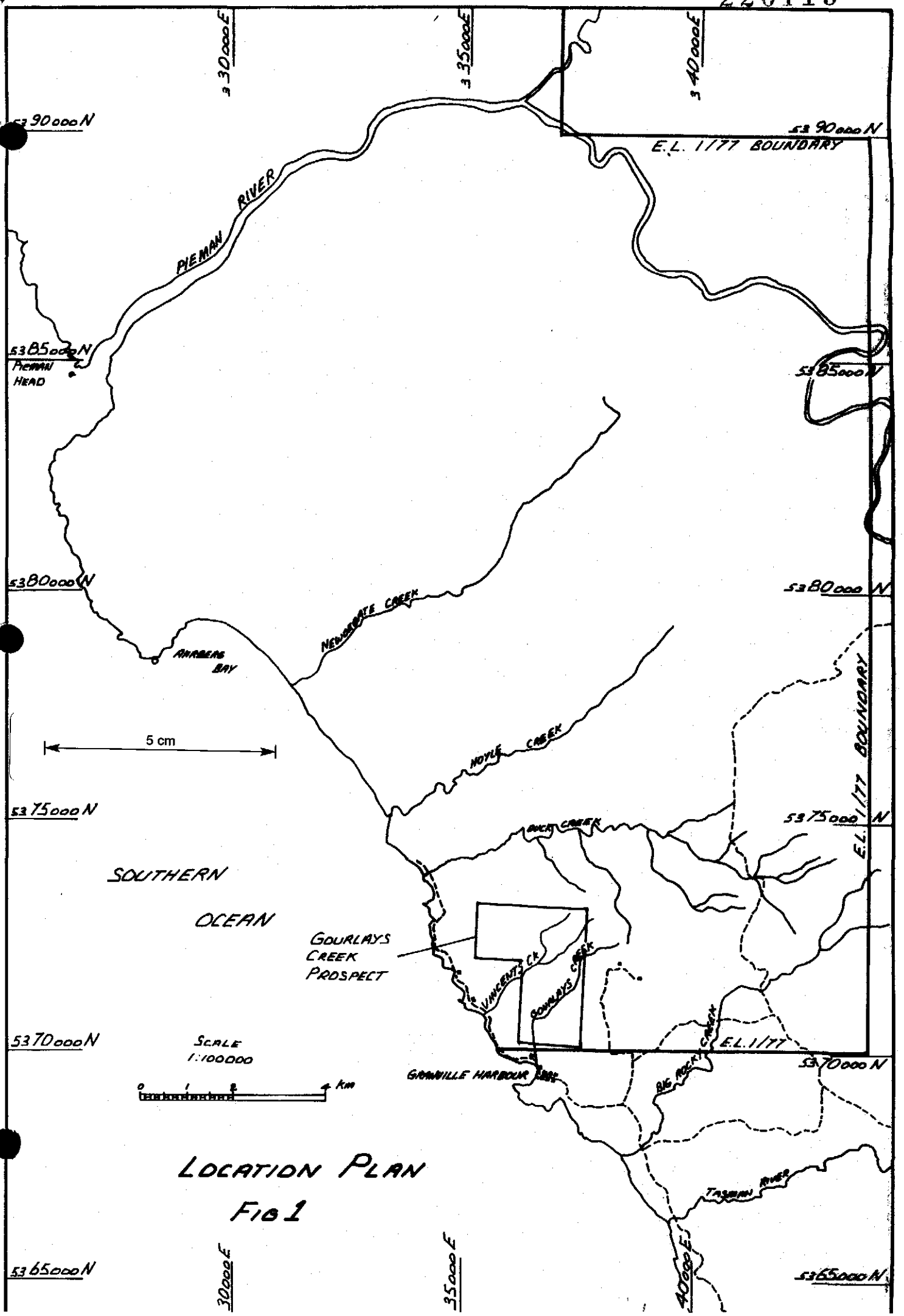
GEOPEKO TASMANIA DRILL LOG

Prospect

Hole no.

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py				Fracturing	Sample No	From (m)	To (m)	Rec ( )	ASSAYS (Lab:)						
346	347																					
347	348																					
348	349																					
349	350											Ke10608										
350	351																					
351	352																					
352	353																					
353	354																					
354	355											Ke10609										
355	356																					
356	357																					
357	358																					
358	359																					
359	360											Ke10610										
360	361																					
361	362																					
362	363																					
363	364																					
364	365											Ke10611										
365	366																					
366	367																					
369	370											Ke10612										
370	371											Ke10613										
371	372											Ke10614										
372	373											Ke10615										
373	374											Ke10616										
374	375											Ke10617										
375	376											Ke10618										

226115



LOCATION PLAN

FIG 1

FILE NO

Boundary EL 1177

GRANITE

SWAMP

OLD GEOPEKO GRID LINE (10400N)

No Outcrop

No Outcrop

337000 E A M G

337000 E A M G

5371000 N A M G

5371000 N A M G

5 cm

SHEET INDEX

Gourlays Creek

NW	NE
SW	SE

LIB BOOK NO	
DATE	MAY 84
GEOL	C K
DRAWN	M and S
CHECKED	

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

22C.16

Scale 1 2500

Plan No 35-2339

EL 1177 ROCKY CAPE TASMANIA

GOURLAYS CREEK

GEOLOGICAL MAP

SOUTHERN WINDOW

001

FIG 2

FILE NO

337000E AMG

11500

11400

5372000NAMG

11300

Base Line (Northern)

11100

11000

10900

10800 (APPRO)

Datum (337095E AMG 5371449 8N AMG)
2400E 1079.3N

L D Survey Line

5371400N AMG

Base Line (Southern)

337000E AMG

226117

5 cm

NB 1 Northern Base Line surveyed using T16 THEODOLITE
2 All distances corrected for elevations
3 Datum point on Lands DEPT Survey Line accepted

LIB BOOK NO	
DATE	18/1/84
GEOL	CJK
DRAWN	
CHECKED	

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

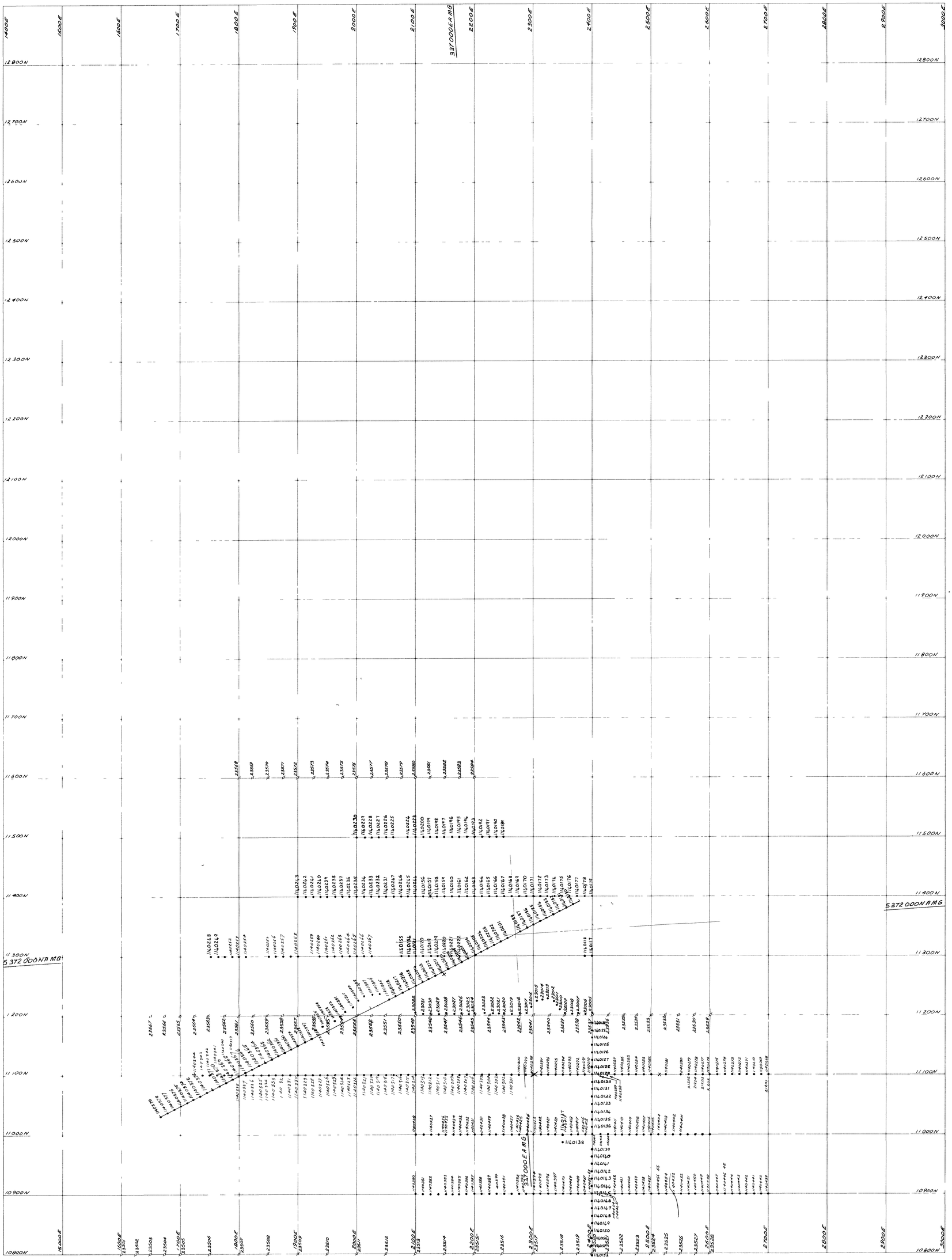
85-2339

metres | Scale 1 2500 | Plan No

Gourlays Creek
Base Line Correction Plan

002
FIG 3

FILE NO TS 1177 GCNE-11



226118

5 cm

SHEET INDEX

Gourlays Creek

NW	NE
SW	SE

o Orientation
B Mole auger hole
• Power Auger (Jia rig)
B.L. Base Line

2:050 — sample no
Sample position

TN GN MN

6 6.4

DATE Aug 83
GEOL R.J.P.
DRAWN Mud S.
CHECKED

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

85-2330

Scale 1/2500 Plan No 16

GCNE 11

E.L 1/77 ROCKY CAPE TASMANIA

GOURLAY'S CREEK - NE

Soil Sample Location Plan

FIG 4a

003

FILE NO

1400E 1500E 1600E 1700E 1800E 1900E 2000E 2100E 2200E 2300E 2400E 2500E 2600E 2700E 2800E

10800N

10700N

10600N

10500N

10400N

5371000N AMG

10300N

10200N

5371000N AMG

10100N

10000N

9900N

9800N

9700N

9600N

9500N

9400N

337000E AMG

Boundary EL 1177

337000E AMG

226119

5 cm

Sample Position

240 – Cu ppm
30 – Pb ppm
165 – Zn ppm
4 – Ag ppm
11.0 – Fe %
36 – As ppm
5 – Sn ppm
<10 – W ppm

SHEET INDEX

Gourlays Creek

NW	NE
SW	SE

1°30 TN-AMG

8.02 AMG GN

GN

10.36 AMG MN

LIB BOOK NO

DATE JUN 84

GEOL C K

DRAWN MvdS

CHECKED

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD – DEVONPORT

85 2339

Scale 1 2500 m tr e

Plan No

EL 1/77 ROCKY CAPE TASMANIA

GOURLAYS CREEK

GEOCHEM RESULTS

SOUTHERN WINDOW

004

FIG. 4b

FILE NO

1500E 1600E 1700E 1800E 1900E 2000E 2100E 2200E 2300E 2400E 2500E 2600E 2700E 2800E 2900E 3000E

12800N 12700N 12600N 12500N 12400N 12300N 12200N 12100N 12000N 11900N 11800N 11700N 11600N 11500N 11400N 11300N 11200N 11100N 11000N 10900N 10800N

5372000N AMG

5371000E AMG

226120

5 cm

- Grid position
- Mate auger hole
- Power Auger (Jacro)
- BL Base Line

0— Cu sample ppm
Sample position

- 50 – 100 ppm
- 100 – 500 ppm
- 500 – 1000 ppm
- > 1000 ppm

SHEET INDEX
GourlaysCreek

NW	NE
SW	SE

DATE Aug 84
GEOL C K
DRAWN M v d S
CHECKED

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

85 2339

Scale | Plan No

m t

E L. 1177 ROCKY CAPE TASMANIA

GOURLAYS CREEK - NE

Cu ppm – C horizon soil geochemistry

FIG 5

005

FILE NO

1400E 1500E 1600E 1700E 1800E 1900E 2000E 2100E 2200E 2300E 2400E 2500E 2600E 2700E 2800E 2900E 3000E

12800N 12700N 12600N 12500N 12400N 12300N 12200N 12100N 12000N 11900N 11800N 11700N 11600N 11500N 11400N 11300N 11200N 11100N 11000N 10900N 10800N

5372000N AMG

337000E AMG

226121

5 cm

o Grid position
β Mote auger hole
• Power Auger (Jacro)
B.L. Base Line

10— Zn Sample ppm
Sample position

50 - 100 ppm
100 - 200 ppm
200 - 500 ppm
> 500 ppm

SHEET INDEX

Gourlays Creek

NW	NE
SW	SE

TN GN MN

6.4°

DATE Aug 84
GEOL C.K.
DRAWN Mods
CHECKED

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

85-2339

metres | Scale 1 2500 | Plan No

EL 1/77 ROCKY CAPE TASMANIA

GOURLAY'S CREEK - NE

FIG 6

Zn ppm - Chorizon soil geochemistry

006

FILE NO TS 1177 GCNE-12

o Grid position
Ø Mole auger hole
● Power Auger (1a to)
B.L Base Line

10 Sn sample ppm
Sample position

50 - 100 ppm
100 500 ppm
500 - 1000 ppm
> 1000 ppm

Gourlays Creek

NW NE
SW SE

DATE Aug 83
DRAWN M vdS
CHECKED

GEOPEKO
A DIVISION OF PEKO WALL SENG OPERATIONS LTD - DEVONPORT
007
85-2336
Scale 1:5000 metres
Plan No 17
GCNE 12

EL 1/77 ROCKY CAPE TASMANIA

GOURLAY'S CREEK - NE

Sn ppm — C horizon soil geochemistry

FIG 7

226122

5 cm

85-2339

FIG 8a

008

GOURLAYS CREEK SOUTH - EAST

PSEUDOSECTIONS OF DIPOLE DIPOLE I P / RESISTIVITY SHEET 1

Hor Scale 1:2500 a = 50m

5 cm

December 1983

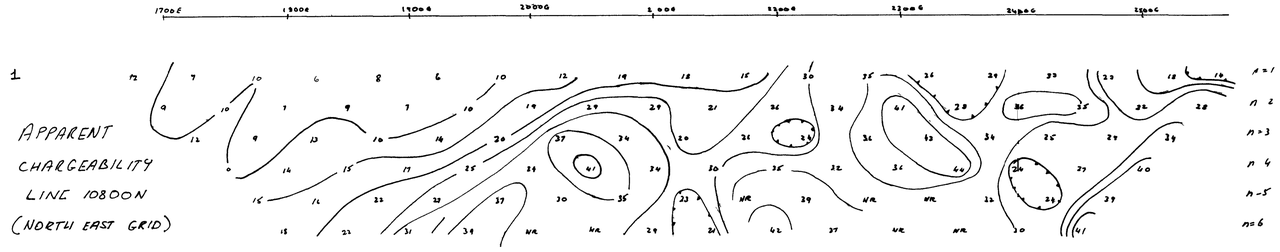
Inst - Tx Huntec 2.5 kW
Rx Scintrex IPR-8

Obs - T C M L
Geo - J Sumpton

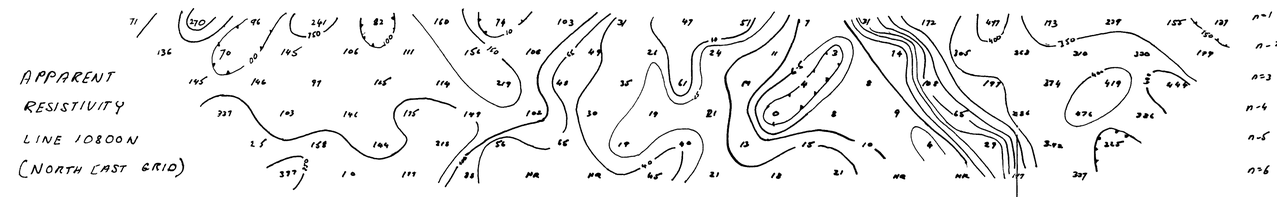
Contour Int - Ma 5mV/V
Pa logarithmic

Note - Chargeability plotted is slice with mean delay time of 910 msec

APPARENT CHARGEABILITY LINE 10800N (NORTH EAST GRID)

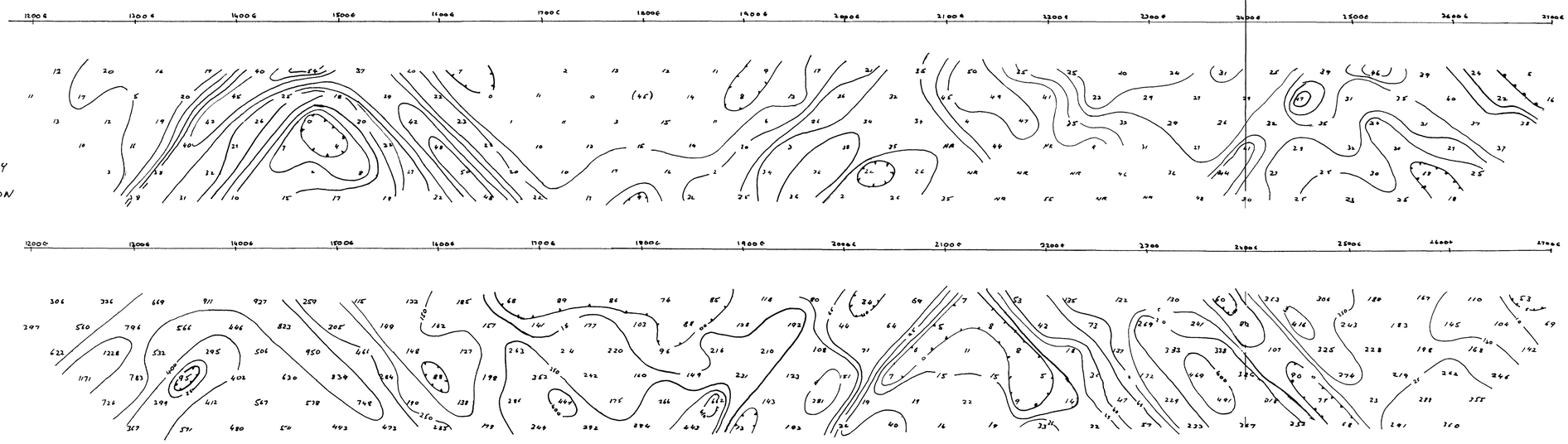


APPARENT RESISTIVITY LINE 10800N (NORTH EAST GRID)



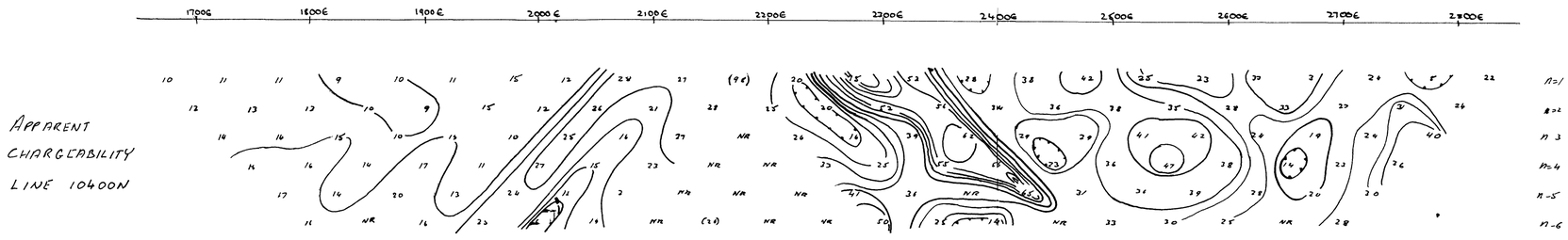
226123

APPARENT CHARGEABILITY LINE 10600N

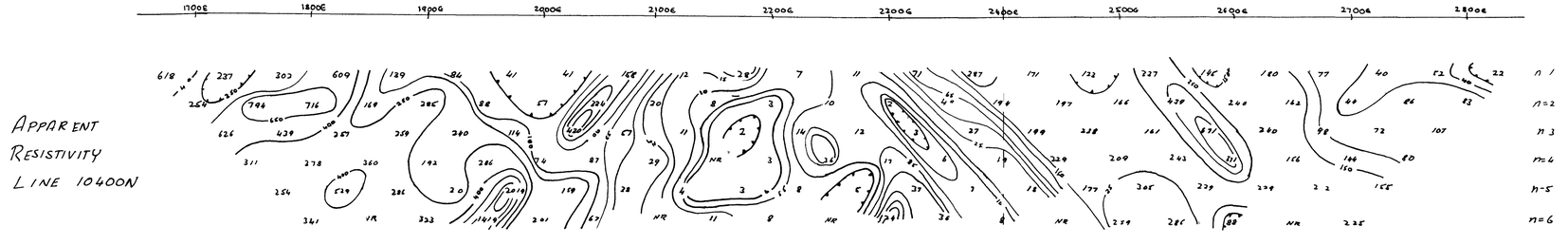


APPARENT RESISTIVITY LINE 10600N

APPARENT CHARGEABILITY LINE 10400N



APPARENT RESISTIVITY LINE 10400N



85-2339

009

GOURLAYS CREEK SOUTH EAST

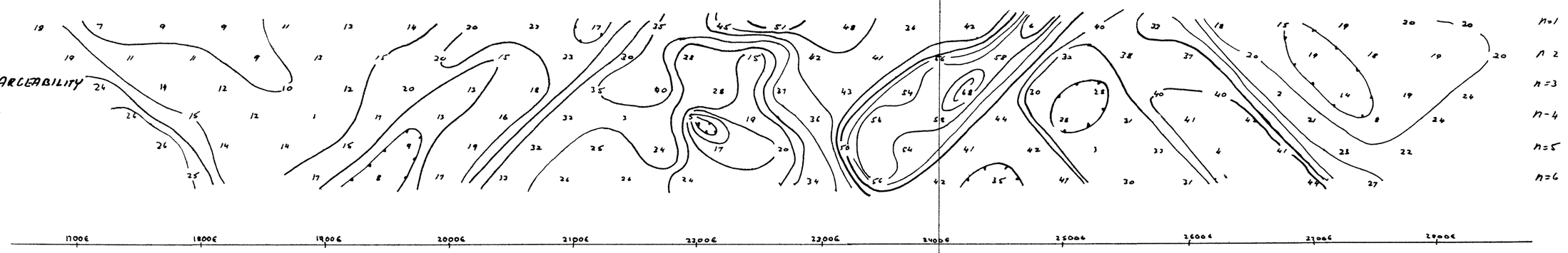
PSEUDOSECTIONS OF DIPOLE - DIPOLE I P /RES SHEET 2

226121

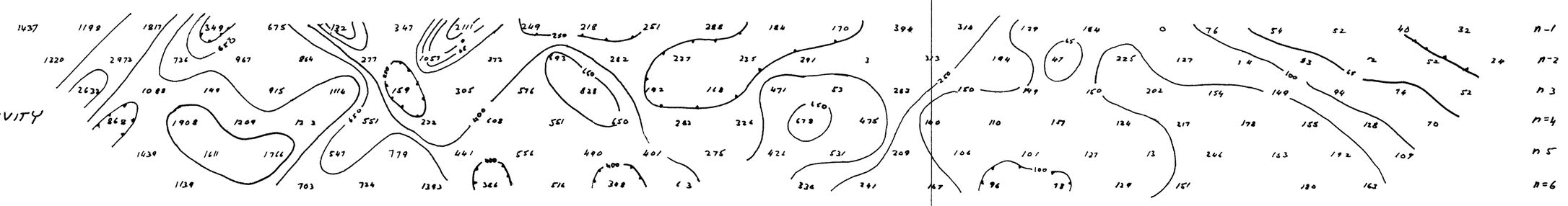
FIG 8b

5 cm

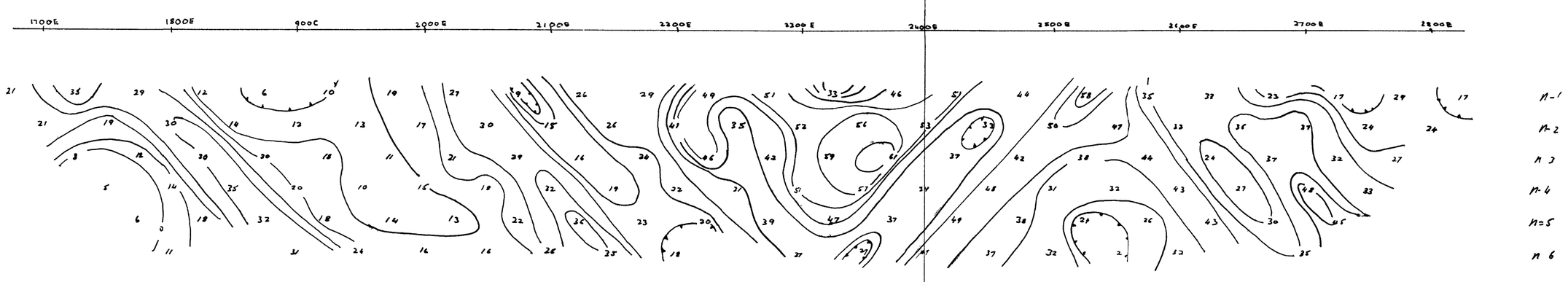
APPARENT CHARGEABILITY
LINE 10200N



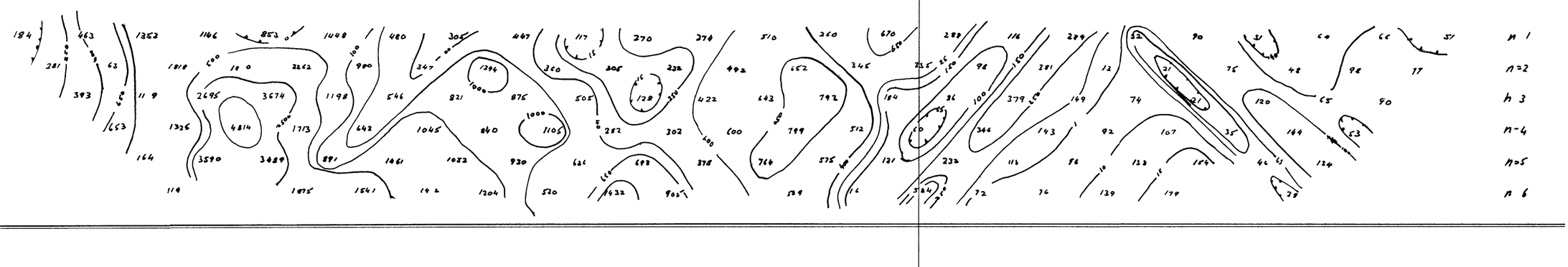
APPARENT RESISTIVITY
LINE 10200N



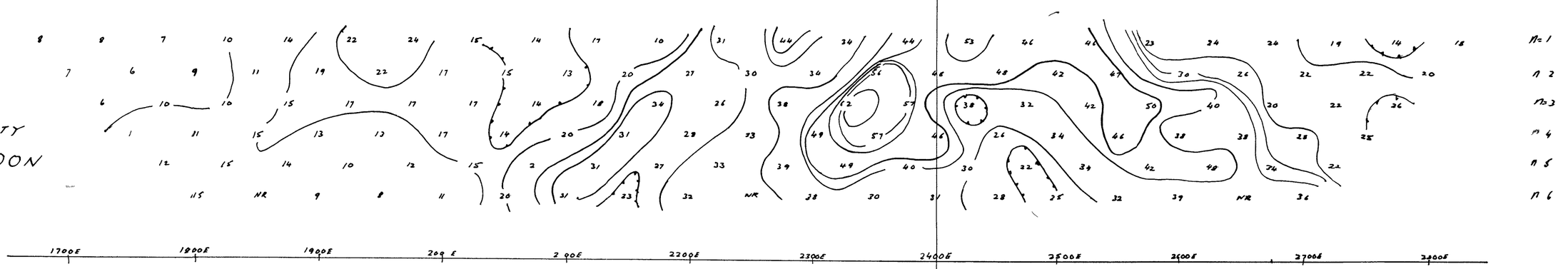
APPARENT CHARGEABILITY
LINE 10000N



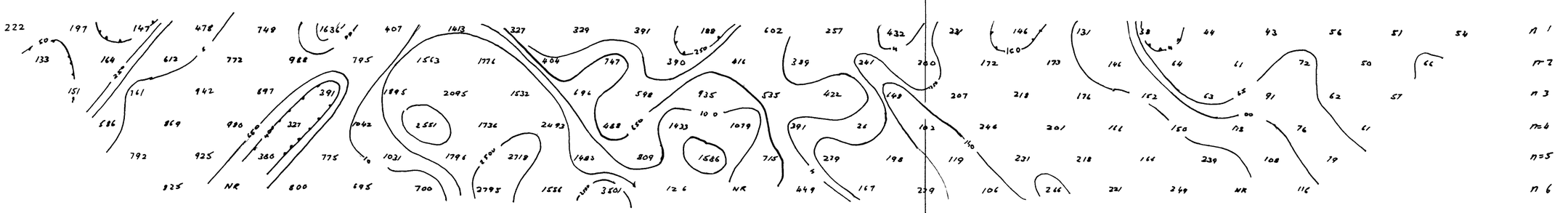
APPARENT RESISTIVITY
LINE 10000N



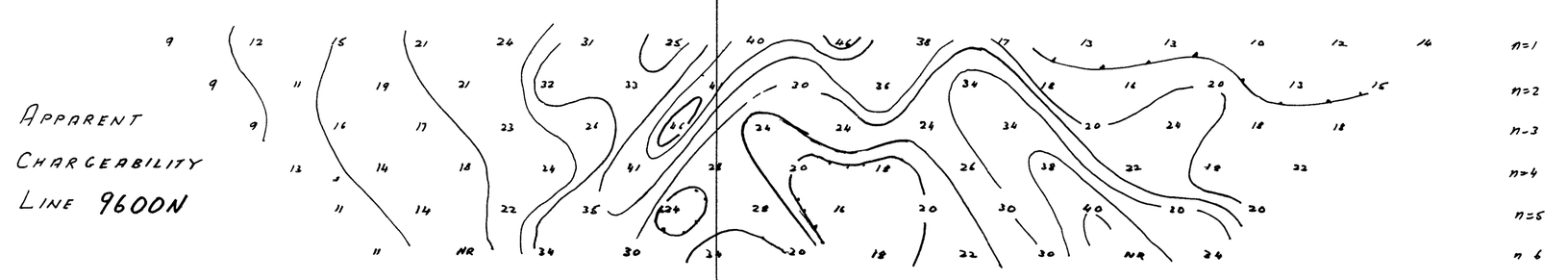
APPARENT CHARGEABILITY
LINE 9800N



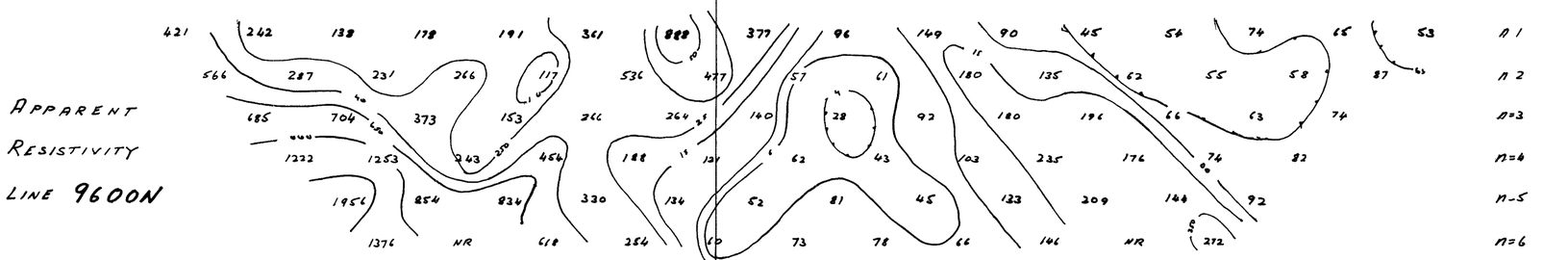
APPARENT RESISTIVITY
LINE 9800N



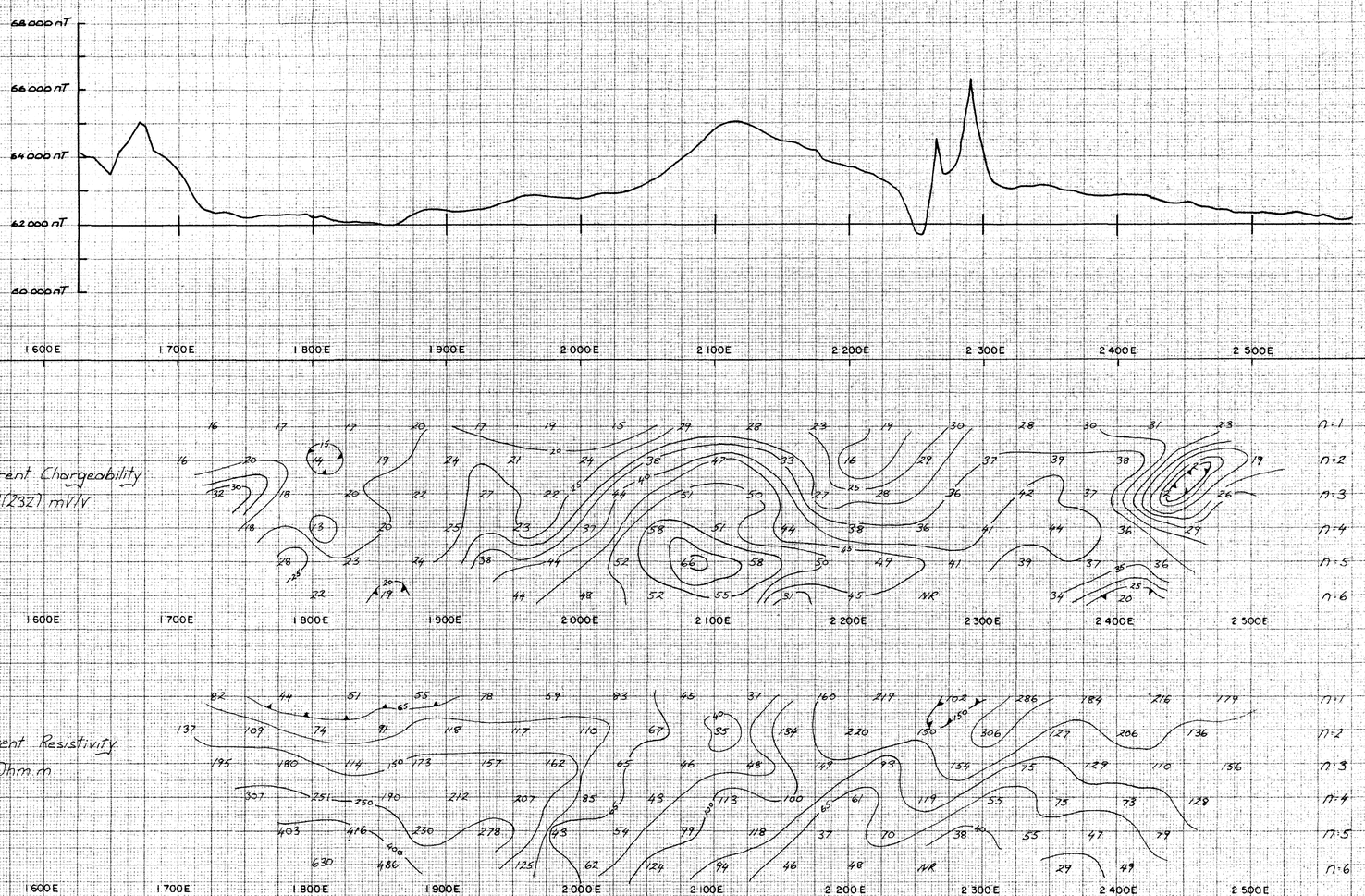
APPARENT CHARGEABILITY
LINE 9600N



APPARENT RESISTIVITY
LINE 9600N



FILE NO: TS 1/77 - GCNE - 8



OBSERVER: TC	SCALE: 1:2500	CONT INT - APPARENT CHARGEABILITY: 5mV/V
INSTRUMENT Tx: Huntec 2.5kW	DATE: May 83	CONT.INT - APPARENT RESISTIVITY: Logarithmic
INSTRUMENT Rx: Scintrex IPR-8	DIPOLE SPACING: 50m	CONT.INT - APPARENT METAL FACTOR

NOTES: Chargeability plotted is slice with mean delay time of 910ms (M232)

DATE : July 83
GEOL : J.S.
DRAWN : R.Tog.
CHECKED : J.S.

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

85-2330

25 0 25 50 75 100 125 metres | Scale : 1:2500 | No : 13 GCNE - 8

E.L.1/77 ROCKY CAPE, TASMANIA
GOURLAYS CREEK - NE
PSEUDOSECTION OF DIPOLE - DIPOLE
I.P./RESISTIVITY
11000N

010

FIG 9

226125

5 cm

FILE NO TS 1/77 - GCNE - 7

1600E 1700E 1800E 1900E 2000E 2100E 2200E 2300E 2400E 2500E 2600E 2700E

Sn ppm

W ppm

Sn profile

W profile

Fe profile

Fe %

Cu ppm

Cu profile

740 ppm

Zn profile

Zn ppm

68 000 nT

66 000 nT

64 000 nT

62 000 nT

1400E 1500E 1600E 1700E 1800E 1900E 2000E 2100E 2200E 2300E 2400E 2500E 2600E 2700E 2800E 2900E 3000E

Apparent Chargeability

M M232

n 1 n 2 n 3 n 4 n 5 n 6

Apparent Resistivity

Ohm m

226126

5 cm

OBSERVER TC	SCALE 1 2500	CONT INT APPARENT CHARGEABILITY 5mV/V
INSTRUMENT Tx Huntec 2.5kW	DATE May 83	CONT INT APPARENT RESISTIVITY Logarithmic
INSTRUMENT Rx Scintrex IPR 8	DIPOLE SPACING 50m	CONT INT APPARENT METAL FACTOR

NOTES

Chargeability plotted is slice with mean delay time of 910ms (M232)

DATE July 83
GEOL J S
DRAWN R Tag
CHECKED J S

GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

85-2339

25 0 25 50 75 100 35 metres | Scale 1 2500 | No 12

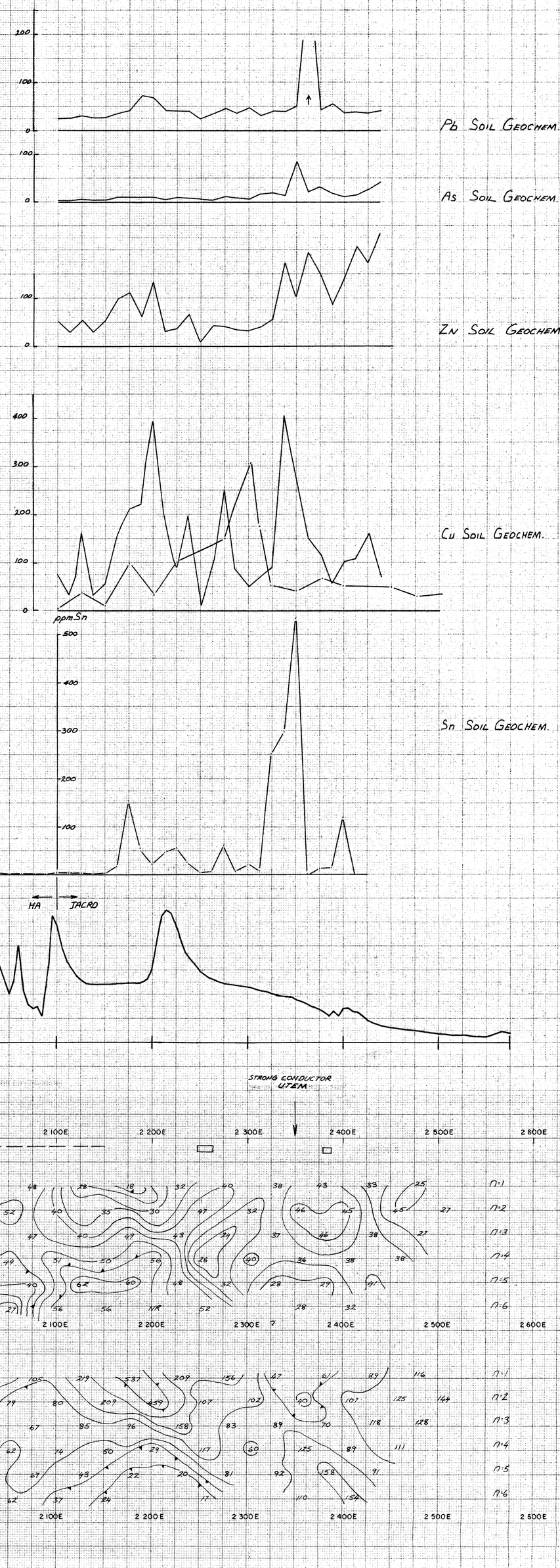
GCNE - 7

EL 1/77 ROCKY CAPE, TASMANIA
GOURLAYS CREEK - NE
PSEUDOSECTION OF DIPOLE - DIPOLE
I P / RESISTIVITY
11100N

011

FIG 10

FILE NO: TS 1/77-GCNE-6



OBSERVER: TC	SCALE: 1:2500	CONT INT - APPARENT CHARGEABILITY: 5mV/V
INSTRUMENT Tx: Huntec 2.5KW	DATE: May 83	CONT.INT - APPARENT RESISTIVITY: Logarithmic
INSTRUMENT Rx: Scintrex IPR-8	DIPOLE SPACING: 50m	CONT.INT - APPARENT METAL FACTOR

NOTES:
Chargeability plotted is slice with mean delay time of 910ms (M232)

DATE : July 83
GEOL : J.S.
DRAWN : R.Tag
CHECKED : J.S.

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

85-2329

25 0 25 50 75 100 125 metres | Scale : 1:2500 | No : 11

GCNE-6

E.L.1/77 ROCKY CAPE, TASMANIA
GOURLAYS CREEK-NE
PSEUDOSECTION OF DIPOLE-DIPOLE
I.P./RESISTIVITY
11200N

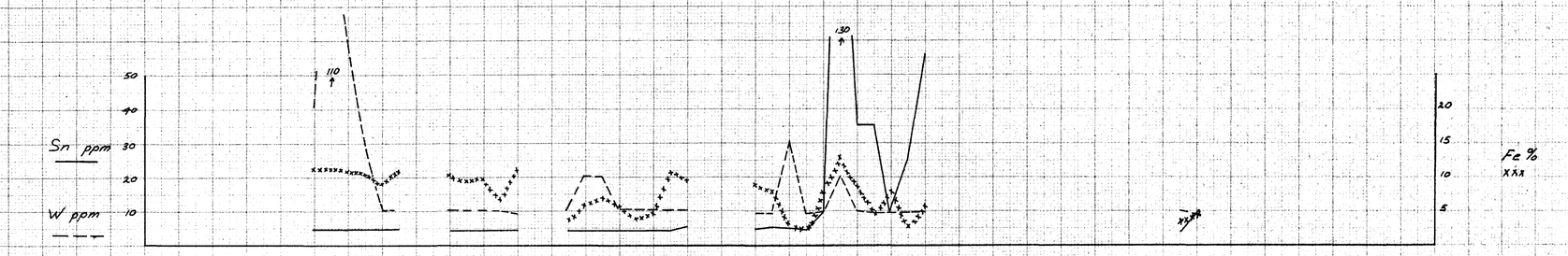
012

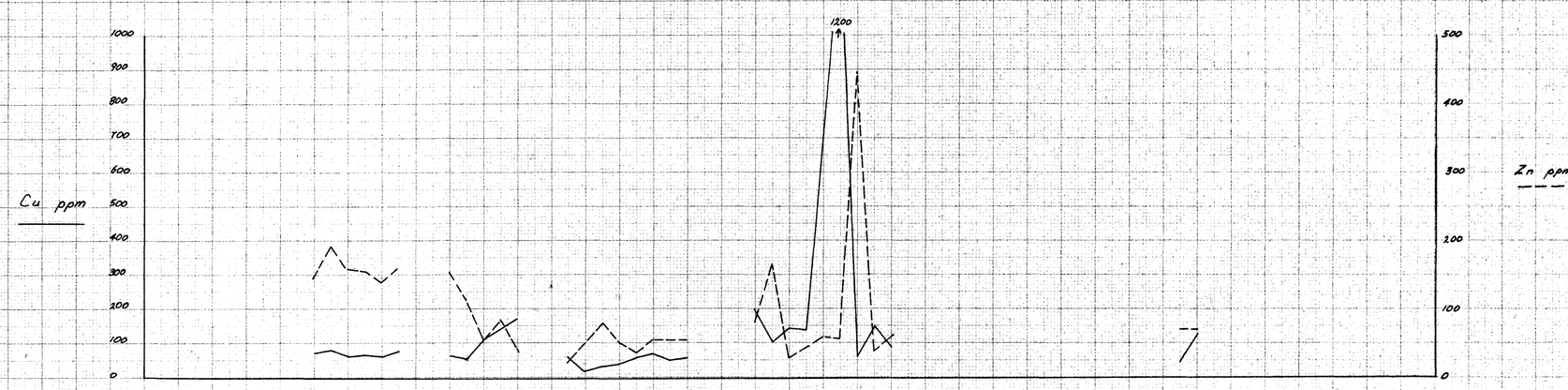
FIG 11

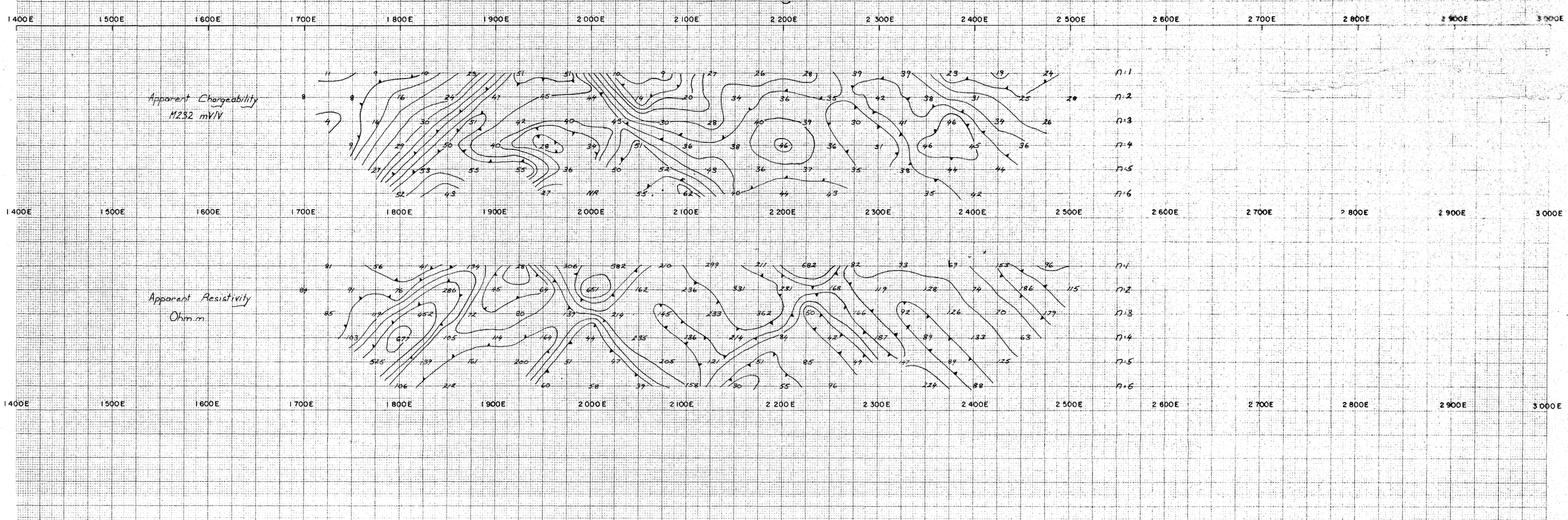
226127

5 cm

FILE NO: TS 1/77 - GCNE - 5







226128

5 cm

OBSERVER: TC	SCALE: 1:2500	CONT.INT - APPARENT CHARGEABILITY: 5mV/V
INSTRUMENT Tx: Huntec 2.5kW	DATE: May 83	CONT.INT - APPARENT RESISTIVITY: Logarithmic
INSTRUMENT Rx: Scintrex IPR-8	DIPOLE SPACING: 50m	CONT.INT - APPARENT METAL FACTOR

NOTES:
Chargeability plotted is slice with mean delay time of 910ms (M232)

DATE : July 83
GEOL : J.S.
DRAWN : R.Tag
CHECKED : J.S.

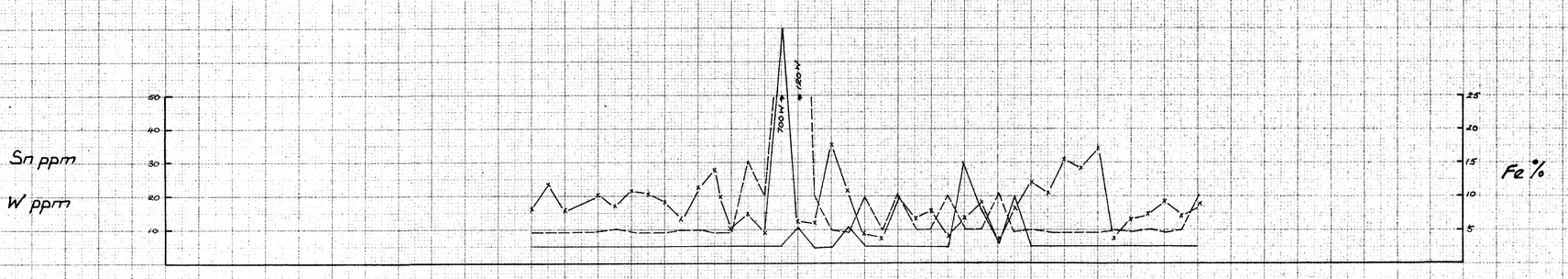
GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

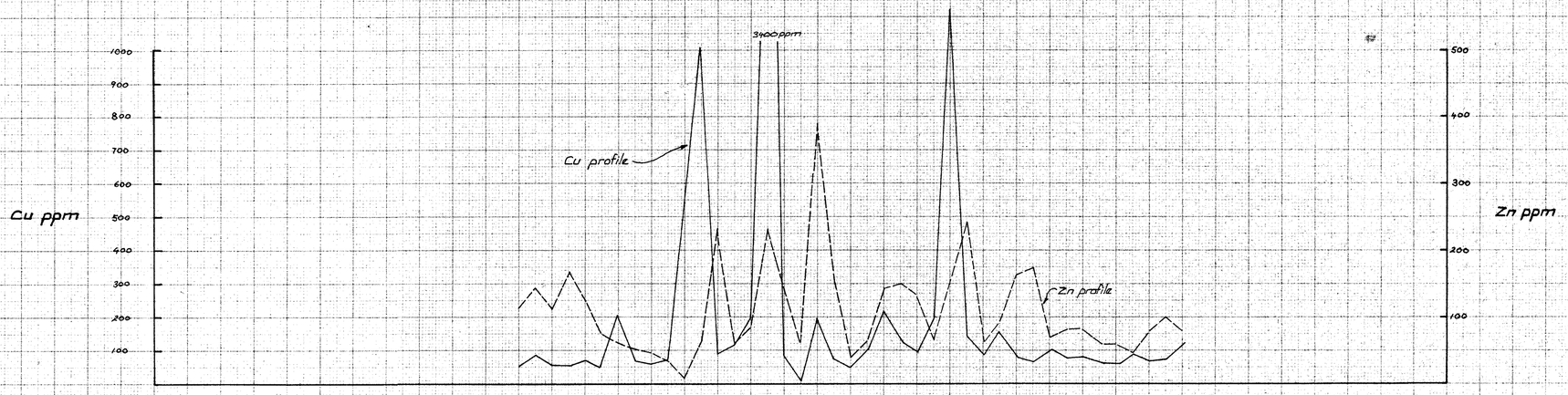
85-2339

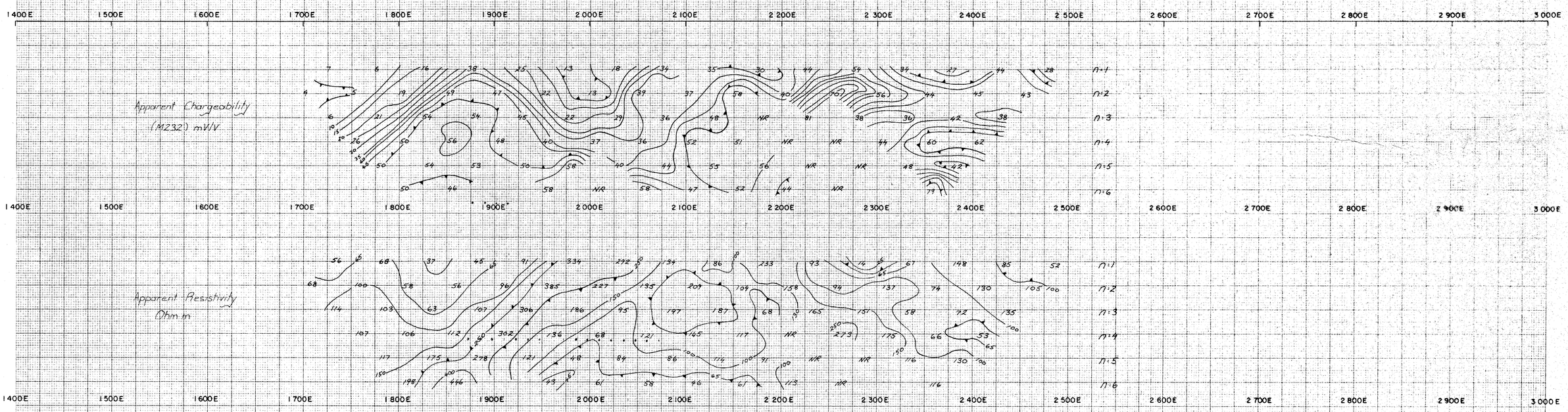
25 0 25 50 75 100 125 metres | Scale : 1:2500 | No : 10

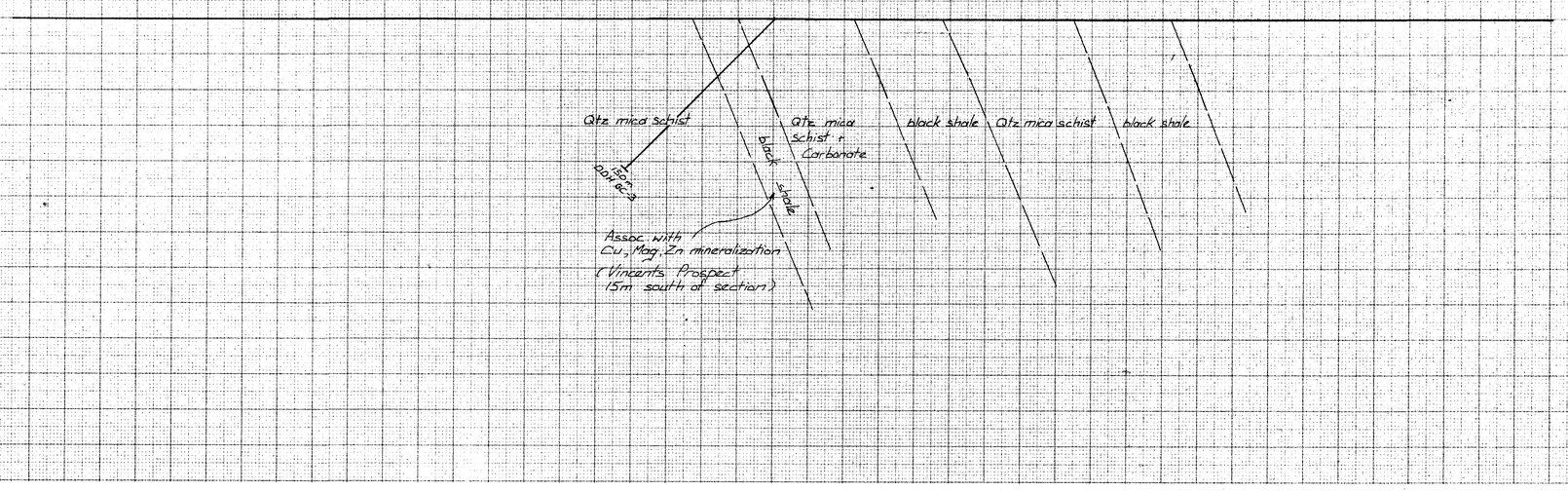
E.L.1/77 ROCKY CAPE, TASMANIA GCNE-5
GOURLAYS CREEK - NE
PSEUDOSECTION OF DIPOLE - DIPOLE I.P./RESISTIVITY 013
11300N FIG 12

FILE NO: TS 1/77-GCNE-4









226129

5 cm

OBSERVER: TC	SCALE: 1:2500	CONT. INT - APPARENT CHARGEABILITY: 5mV/V
INSTRUMENT Tx: Huntec 2.5kW	DATE: May 83	CONT. INT - APPARENT RESISTIVITY: Logarithmic
INSTRUMENT Rx: Scintrex IPR-8	DIPOLE SPACING: 50m	CONT. INT - APPARENT METAL FACTOR
NOTES: Chargeability plotted is slice with mean delay time of 910ms (M232)		

DATE : July 83
GEOL : J.S.
DRAWN : R.Tog
CHECKED : J.S.

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

85-2329

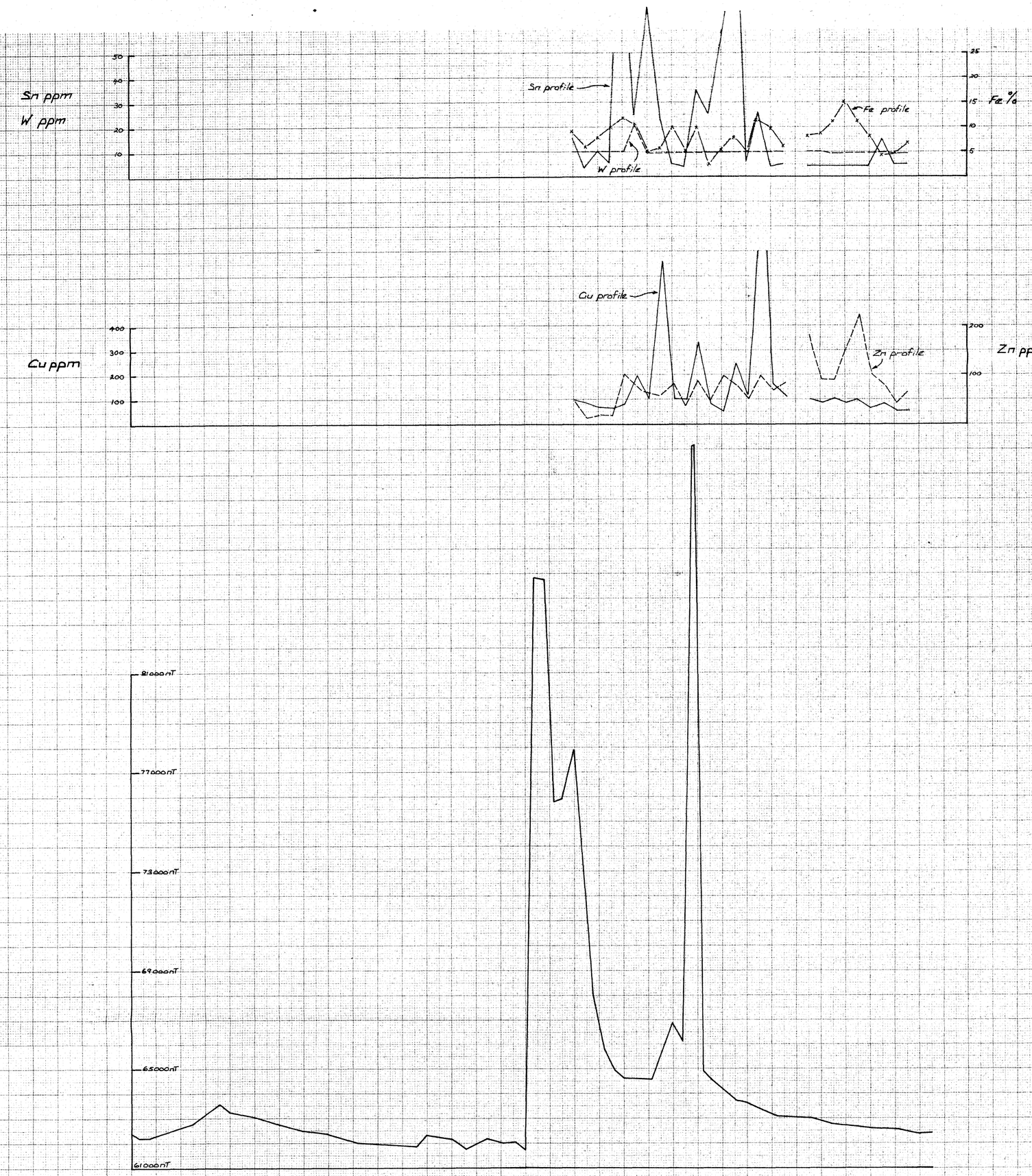
25 0 25 50 75 100 125 metres | Scale : 1:2500 | No : 9

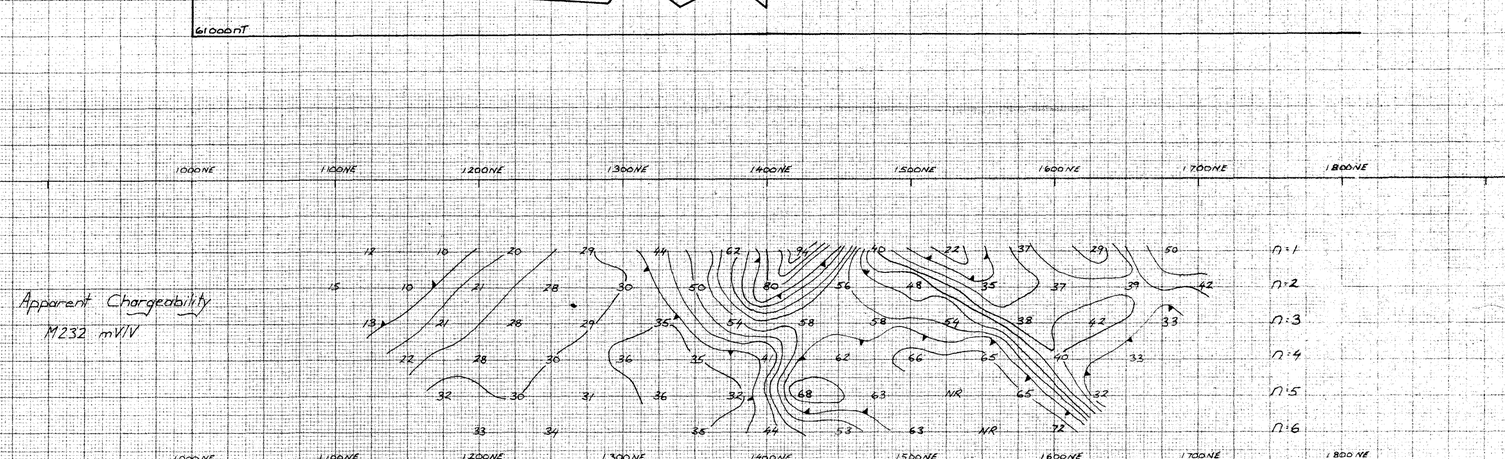
E.L.1/77 ROCKY CAPE, TASMANIA
GOURLAYS CREEK-NE
PSEUDOSECTION OF DIPOLE-DIPOLE
I.P./RESISTIVITY
11400N

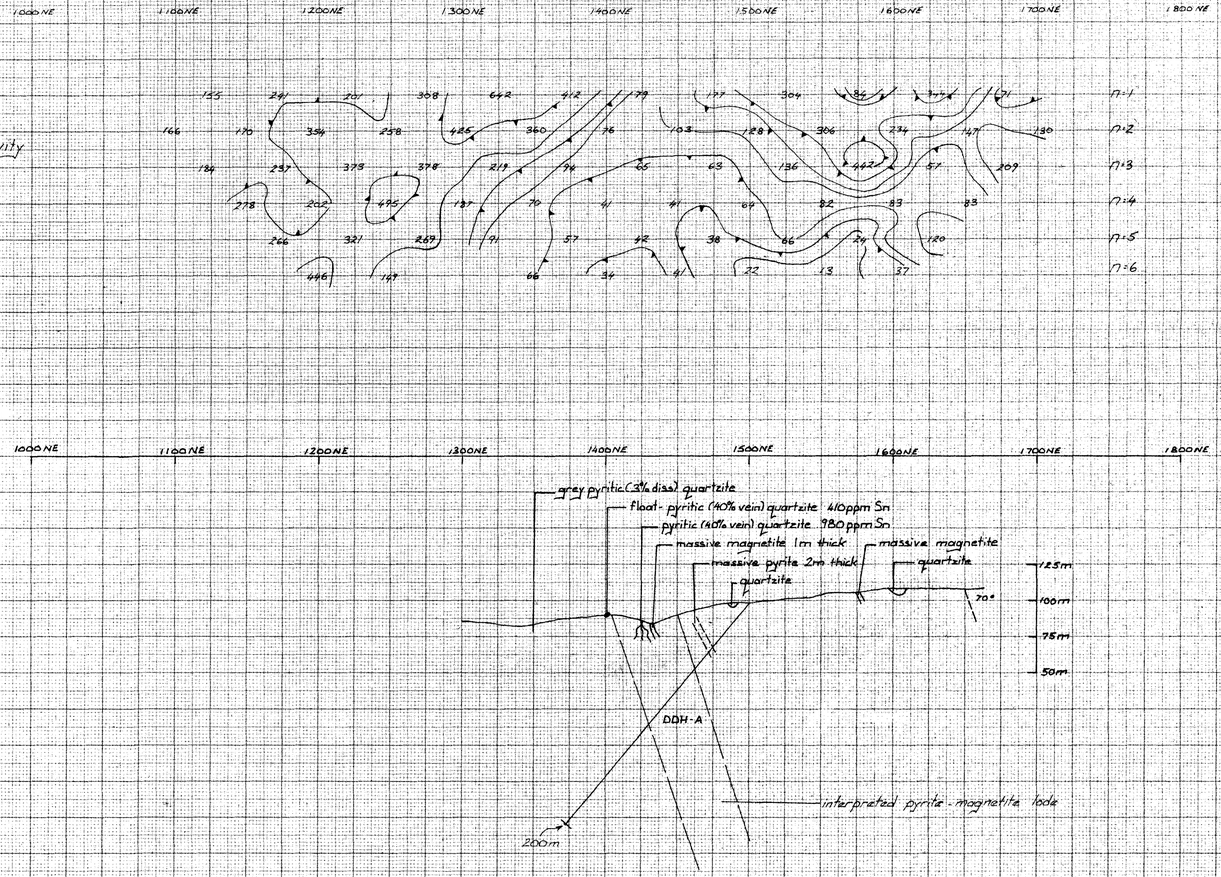
GCNE-4
014

FIG 13

FILE NO: TS1/77-GCNE-9







226130

5 cm

OBSERVER: TC	SCALE: 1:2500	CONT.INT- APPARENT CHARGEABILITY: 5mV/V
INSTRUMENT Tx: Huntec 2.5kW	DATE: May 83	CONT.INT- APPARENT RESISTIVITY: Logarithmic
INSTRUMENT Rx: Scintrex IPR-8	DIPOLE SPACING: 50m	CONT.INT-APPARENT METAL FACTOR

NOTES:
Chargeability plotted is slice with mean delay time of 910ms (M232)

DATE : July 83
GEOL : J.S.
DRAWN : R.Teg
CHECKED :

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

25 0 25 50 75 100 125 metres | Scale : 1:2500 | No : 14

85-2339

GCNE-9

E.L.1/77 ROCKY CAPE, TASMANIA
GOURLAYS CREEK - NE 015
PSEUDOSECTION OF DIPOLE-DIPOLE
I.P./RESISTIVITY
Diagonal Line

FIG 14

10800N

10600N

10400N

10200N

10000N

9800N

9600N

NB THIS LINE ACTUALLY ON "CENTRAL WINDOW GRID

1700E 1800E 1900E 2000E 2100E 2200E 2300E 2400E 2500E 2600E 2700E 2800E

GOURLAYS CREEK

SOUTHERN WINDOW

IP INTERPRETATION DIAGRAM - J Sumpton

SCALE 1 2500

Chargeability high

Resistivity low

"Electrical basalt

Electrical granite

traverse line

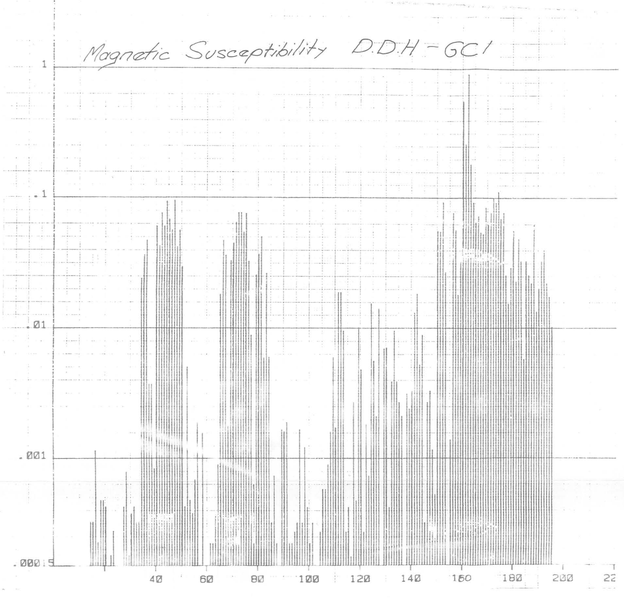
5cm

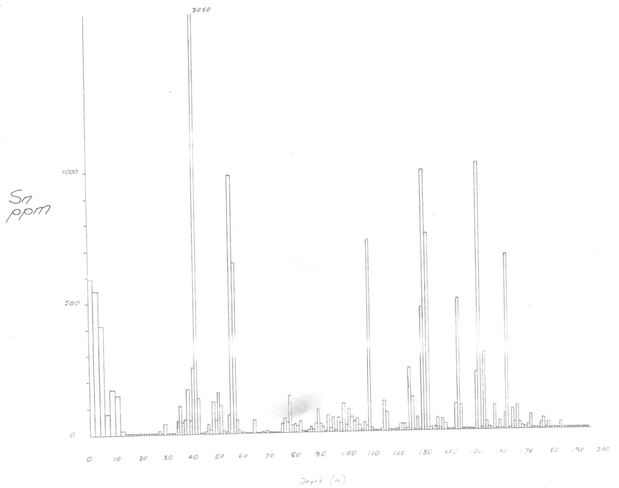
226131

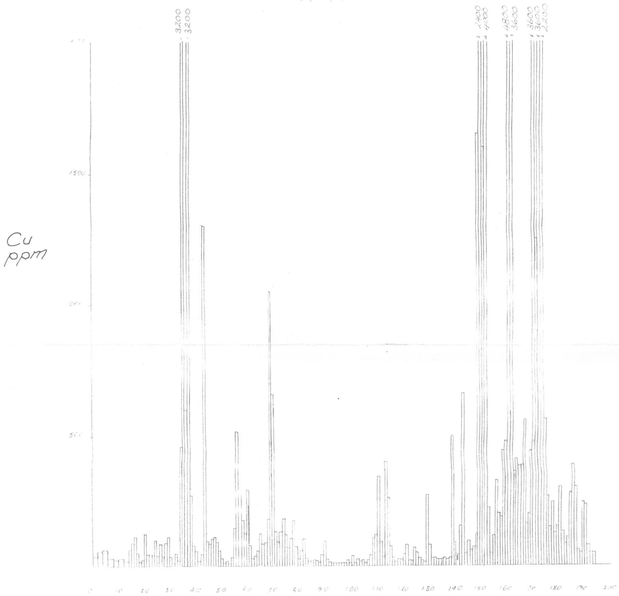
016

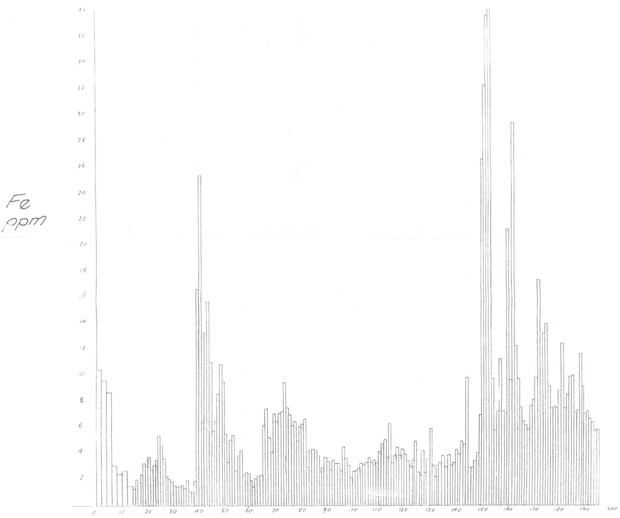
FIG 15

Fig 17


Magnetic Susceptibility D.D.H - GC1
1
.1
.01
.001
.0001
40
60
80
100
120
140
160
180
200


Sn ppm
3050
1000
500
0
Depth (m)


Cu ppm
3200
3210
1500
1000
500


Fe ppm
20
18
16
14
12
10
8
6
4
2

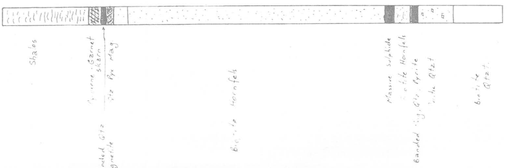
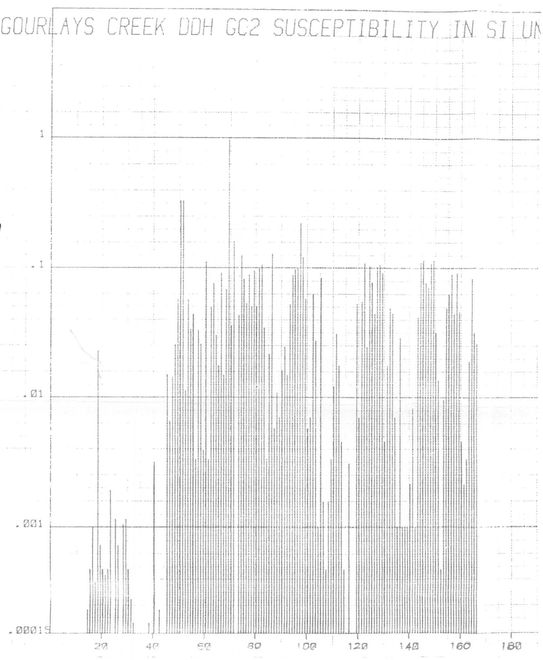
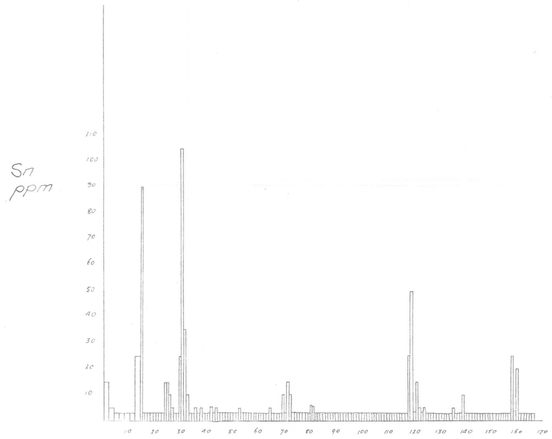
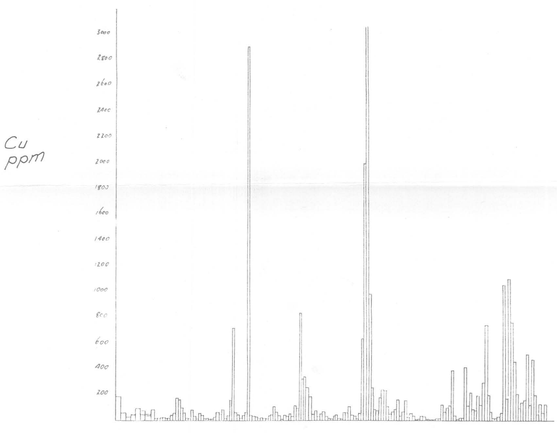
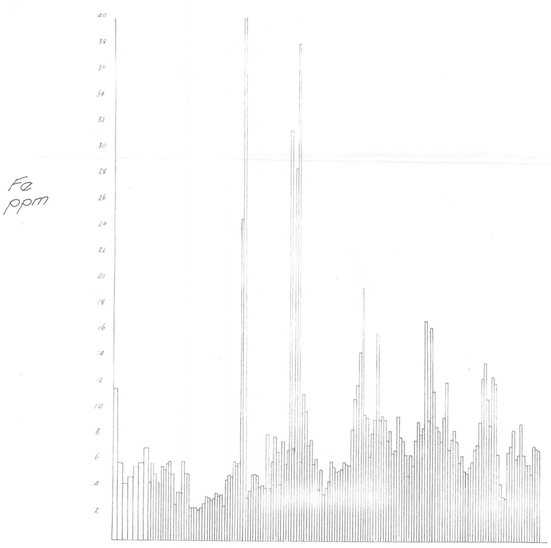


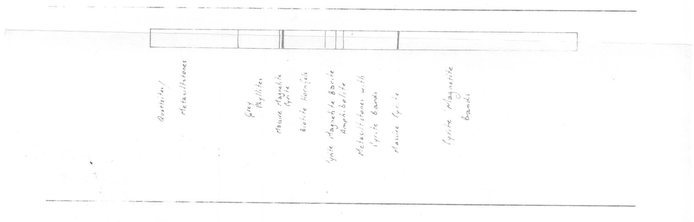
FIG 18


GOURLAYS CREEK DDH GC2 SUSCEPTIBILITY IN SI UN
1
.1
.01
.001
.00015
20
40
50
80
100
120
140
160
180

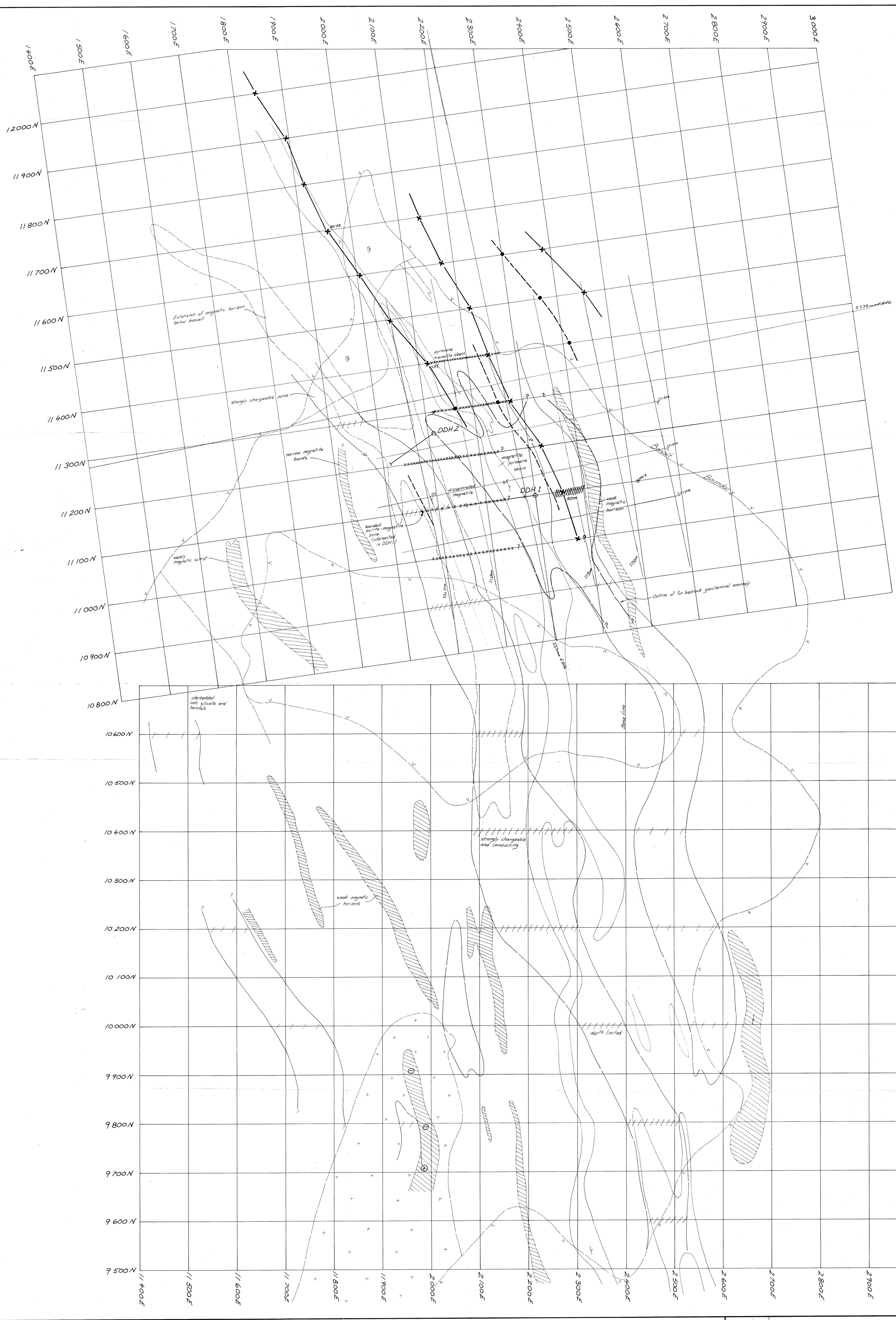

Sn
ppm


Cu
ppm


Fe
ppm


Quartz-Chl
Metasediments
Fine Pyrrhotite Pyrite
Minor Magnetite Pyrite
Mafic Veinlets
Pyrite Magnetite Banded Sulphides
Metasediments with Pyrite Bands
Mafic Cycle
Pyrite Magnetite Bands

019



Geology:

- basalt / gravels — Tertiary
- granite — Devonian
- actinolite, biotite chlorite hornfels and schist — Precambrian
- calc-silicates — Precambrian

Magnetic Zones:

- magnetite-pyroxene-quartz (garnet) skarn and along strike correlations
- banded magnetite-pyrite (includes massive pyrite, magnetite barite and magnetic-garnet horizons)
- undifferentiated magnetic horizons

5 cm

I.P. Zones:

- strongly chargeable with very low resistivity (most probably massive and/or disseminated pyrite
- moderately chargeable with low resistivity (disseminated pyrite, possibly black shales?)

UTEM SURVEY
Conductive Unit of Primary Interest
→ Estimated Depth in Metres
Thin weakly conductive zone related to weak mineralisation
xxxxx Wide conductive zone

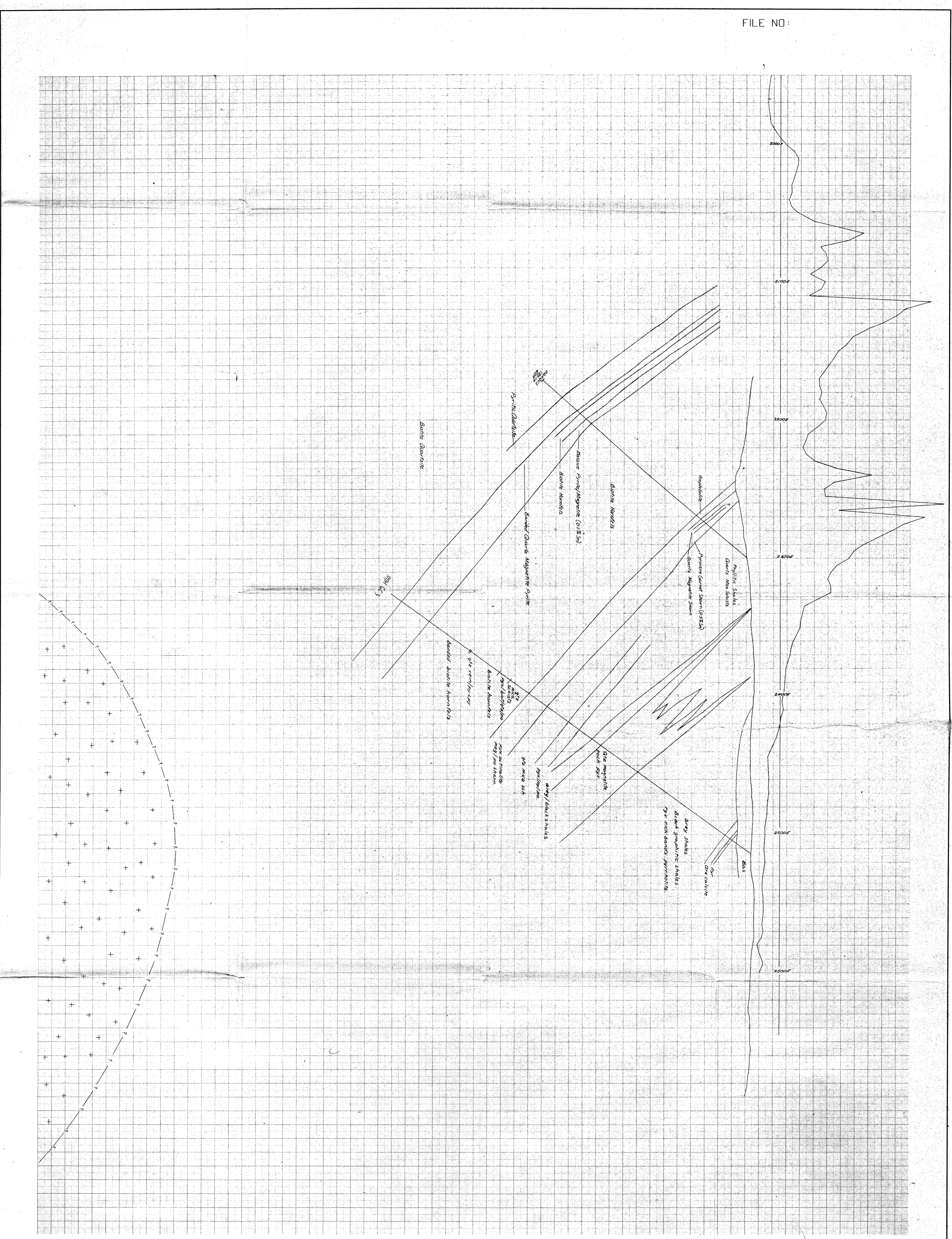
GEOPEKO 226134
85-2339

E.L. 1/77 Rocky Cape, Tasmania
Gourlays Creek FIG 19
Geological and Geophysical Interpretation
Southern, Central Windows 019

Geol: R.R.Large
Date: 19 Jan 84
Update: JUN 84
Drawn: R.Tog
Chkd:

25 0 50 100 125 metres
Scale 1:2 500
PLAN No.

FILE NO:



5 cm

DATE : MAY 84
GEOL : C.K.
DRAWN : M.vdS
CHECKED :

226135 **GEOPEKO**
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

85-2339

25 0 25 50 75 100 125 metres | Scale : 1:2 500 | Sheet No :

E.L. 1/77 ROCKY CAPE TASMANIA
GOURLAYS CK.
11100 N
GEOLOGICAL CROSS SECTION
DDH GC1

FIG 20

020

PLAN

85-2339

FILE NO TS1/77-GCNE-1

1400E 1500E 1600E 1700E 1800E 1900E 2000E 2100E 2200E 2300E 2400E 2500E 2600E 2700E 2800E 2900E 3000E

337 000E AMG

12 800N 12 700N 12 600N 12 500N 12 400N 12 300N 12 200N 12 100N 12 000N 11 900N 11 800N 11 700N 11 600N 11 500N 11 400N 11 300N 11 200N 11 100N 11 000N 10 900N 10 800N

5 372 000N AMG

1200E

bas

ba

Creek

Vincents

Tertiary sand

50 75m

<25m

Vincents Prospect

PROPOSED DDH A

PROPOSED DDH B

TD 029

TD 0205

TD 0203

TD 0202

TD 0201

TD 0210

TD 0211

RR 2674 fg gy py chl qtzt (up to 40% py) 983ppm Sn

RR 2675 m c calc qz t

RR 2676 seq gn qtzt/phyllite

RR 5530 3 m c bn s lt

RR 5531 py gy qtzt

RR 5532 trem carb

RR 5533 34 mass magt

RR 5534 fg gy qtzt

RR 5535 py gy qtz 4100ppm Sn

RR 5536 fg gy gn lam qtzt

RR 5537 mg gy gn qtzt

RR 5538 ma magt

RR 5539 fg gy qtzt/bn m s lt (malachite)

RR 5540 calc s lt

RR 12671 bn phyllite

RR 12672

PROBABLY GREATER THAN 50 METERS WIDE AT DEPTH

23 SIEMENS 50m

Base Line

337 000E AMG

5 372 000N AMG

LEGEND

- 23 S / 50m — ESTIMATED CONDUCTIVITY THICKNESS IN SIEMENS; CONDUCTIVE UNIT OF PRIMARY INTEREST; ESTIMATED DEPTH IN METERS
- THIN WEAKLY CONDUCTIVE ZONE RELATED TO WEAK MINERALIZATION LITHOLOGICAL CONTRAST OR POSSIBLY LOCAL SHEARING SHALLOW, GENERALLY NEAR SURFACE
- WIDE CONDUCTIVE ZONE, AS A RESULT OF PERVASIVE MINERALIZATION OR PRETENTIAL INCREASE IN ALTERATION/OXIDATION

G STALTARI
GEOPHYSICAL EXPLORATION COMS 27/2/84

SCALE 1 2500

50 0 50 100 150 200 250 300 350 metres

220136

5 cm

BI

act	actinolite	cren	crenulated	intb	interbedded	qtzt	quartzite
bas	basalt	diss	disseminated	lam	laminated	sd	sand
bd	band	dk	dark	lst	limestone	sstn	sandstone
bdd	bedded	dol	dolomite	magt	magnetite	seq	sequence
biot	biotite	fs	feldspar feldspathic	mal	malachite	sh	shale
bk	black	fe	ferruginous	mass	massive	sid	siderite
bl	blue	fib	fibrous	mtx	matrix	sil	siliceous
brec	breccia	fg	fine grained	mg	medium grained	s lt	siltstone
bn	brown	gl	galena	mic	micaceous	sph	sphale te
calc	calcareous	gran	granite	mot	mottled	tour	tou maline
cpy	chalcopyrite	gy	grey	pbly	pebbly	trem	tremolite tremol t c
cht	chert	gn	green	plag	plagioclase	v	very
cl	clay	hb	hornblende	py	pyrite	var	variable
cg	coarse grained	hem	hematite hematitic	po	pyrrhotite	wd	weathered
com	commun	horn	hornfels	qtz	quartz	wh	white
cong	conglomerate	ind	indurated	qv	quartz vein	y	yellow

- outcrop
- geological contact
- unconformity
- anticline
- syncline
- plunge of minor anticline
- plunge of minor syncline
- plunge of fold axis
- bedding strike and dip (20 / 80)
- jointing strike and dip
- foot wall
- F — Fault
- cleavage strike and dip (60)
- cleavage cr nulation cleavage (70 / 55)
- lineation direction and plunge (50)
- creek
- vehicle tracks
- building
- bas — auger hole cuttings
- TD1201 — drainage sample
- RR 5542 — rock chip sample

SHEET INDEX

Gourlays Creek

NW NE SW SE

GN MN TN

6 64

GEOPEKO
A DIVISION OF PEKO WALLSEND OPERATIONS LTD — DEVONPORT

EL 1/77 ROCKY CAPE TASMANIA

Gourlays Creek-NE FIG 21

UTEM PROFILES FOR LOOP 1 (11,000 11600N)
UTEM PROFILES FOR LOOP 2 (11600 - 12000N)

021

CHECKED	SCALE	DATE	REVISED	GEO	DRAWN	SHEET GCNE 1
	1 2500	85-2339		RJP	R Teg	PLAN