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GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

ANNUAL REPORT E.L. 25/80

MONTAGU

1982 SEASON

83-1950

J. PEMBERTON
FEBRUARY, 1983

UNCLASSIFIED

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1.

INTRODUCTION

Exploration Licence 25/80 designated the Montagu E.L. was granted to Geopeko on February 25th 1981 and encompasses 605sq km in North West Tasmania (see Fig 1).

In the first year Geopeko held the licence an aeromagnetic survey was flown, followed by a literature search and interpretation of the aeromagnetic data. The past year has been spent on the first phase of ground follow-up of the magnetic anomalies and a regional geochemical and rock chip sampling program.

2.

SUMMARY

The work completed during the past year has been directed towards carbonates in the Cambrian sequences. A magnetic interpretation by Large (1982) suggested that there was a lower and upper dolomite in the area with the stratigraphy having similarities to that of King Island.

As the outcrop in the licence is minimal a program of Jacro 200 augering was designed to cross the stratigraphy in a number of places. A total of 345 samples were collected from 41.68km of tracks and paddocks. All samples were assayed for Cu, Pb, Zn, Ag, W, Sn, Ba, Ni, Cr, As and Fe.

Twelve magnetic anomalies were followed up on the ground. Of these nine were explained as either Tertiary or Cambrian Basalt. Two of the remaining three could be basic dykes while the third is unexplained.

The geochemical results indicate a number of interesting zones in the stratigraphy. On Robbins Beach opposite Robbins Island the lower carbonates are geochemically anomalous in Zn, Ni, Cu and As while in the central area they also appear prospective. Above the Cambrian Basalt a contact zone between a hematitic siltstone and the Smithton Dolomite is anomalous in Zn, Ni, As and Fe with a potential strike length of some 1.5km.

Future work is planned in the Woolnorth area to complete the first phase of exploration. A full statistical study will then be made of the geochemical results. The next stage of exploration will be planned in full on the completion of the above work.

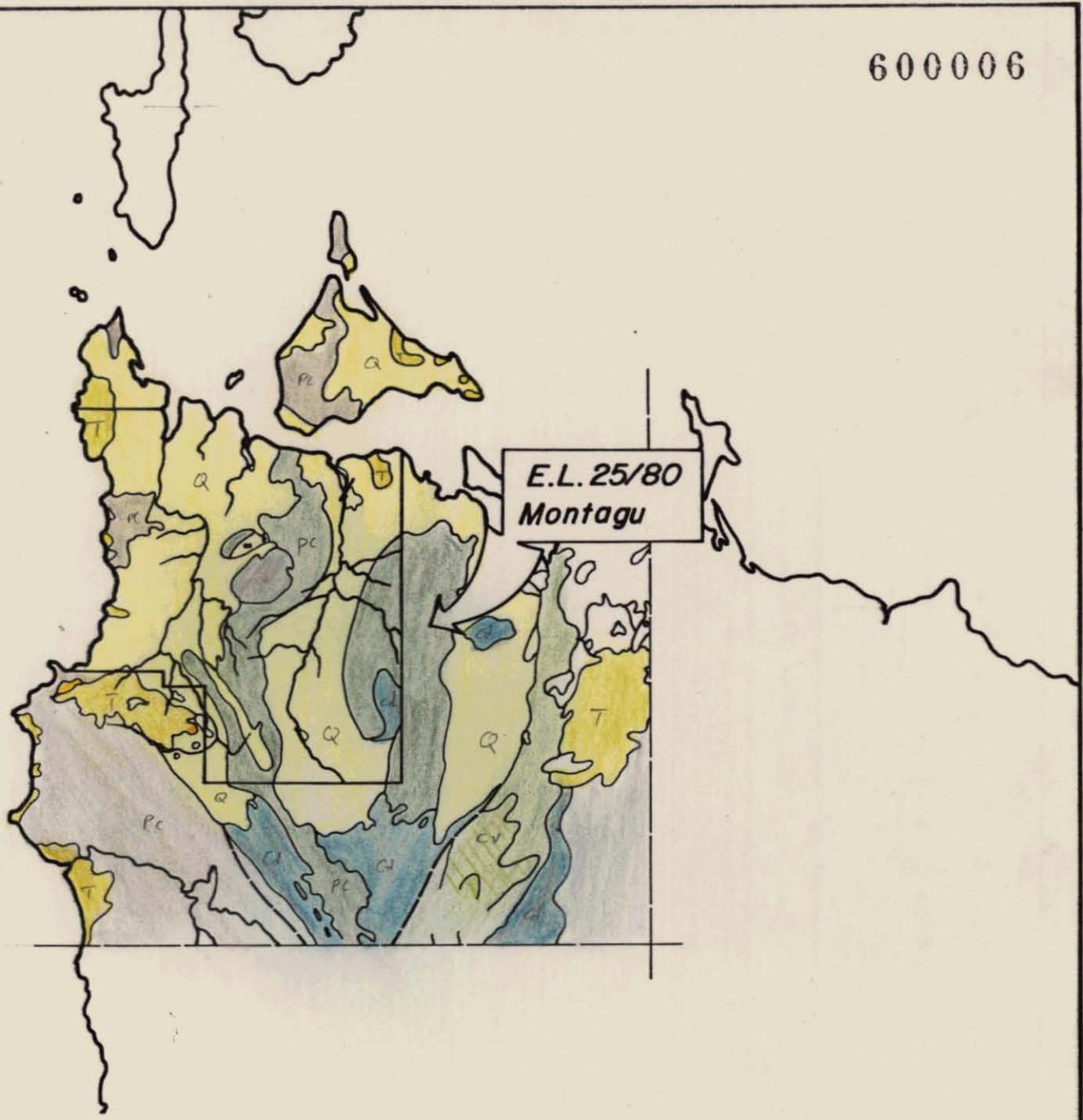
3.

RECOMMENDATIONS

1. Complete the first phase of exploration in the Woolnorth area.
This entails three Jacro traverses to cross the stratigraphy from the Cambrian Basalt to the Precambrian on the coast. Ground follow-up of three airborne magnetic anomalies.
2. Follow-up the F.J. anomaly with a cut grid, ground magnetics and Jacro augering.
3. Follow-up the Robbins Beach anomalies. Initially close spaced Jacro sampling and mapping on Robbins Island to the north of the anomaly.
4. Follow-up in the lower carbonates and at the contact of the hematitic siltstone and Smithton Dolomite. Closed spaced Jacro sampling would accurately delineate the extent of these anomalies followed by gridding, geochemistry and geophysics.

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LEGEND

- QUATERNARY — Q Alluvium
- TERTIARY — T Basalt
- CAMBRIAN — Cv Basic-intermediate volcanics dominantly
- G Unfossiliferous greywacke turbidite sequences
- G Dolomite
- PRECAMBRIAN — Pc Orthoquartzites

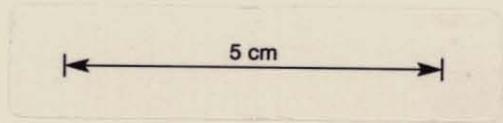
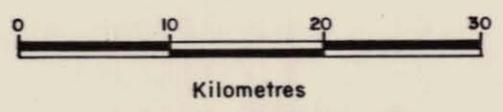


FIGURE I.



SCALE 1:500 000

LOCALITY & REGIONAL GEOLOGY FOR E.L.25/80

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4.

PREVIOUS WORK

Mineral exploration prior to Geopeko concentrated on cassiterite bearing beach sands at Ann Bay and is summarised by Young (1979). The E.Z. Co. reported in 1970 2.5 million tons of sand at a grade of 134ppm Sn. Work by Pickands Mather (1968) and Aberfoyle (1978) showed a grade of 10.2ppm Sn and concluded the deposit was uneconomic.

In 1971 an area at the mouth of the Montagu River was investigated by Nickelton Mining Co. Geophysics was used following the discovery of pyrite and gossanous hematite-goethite in mudstone and siltstone overlying the Cambrian basic volcanics. Magnetics, SP and IP were used to target a drill hole. Results were negative and the area abandoned. This work was reported on by Lewis in June, 1971.

The previous Geopeko report by Large (1982) used the aeromagnetic survey to reinterpret the stratigraphy and structure of the Cambrian-Eocambrian rocks in the Montagu area. A summary of the stratigraphic columns as proposed by Lennox et. al. (1982) and Large (1982) illustrate the reinterpretation.

Lennox et. al. 1982

- | | | | |
|----|---|---|-------------|
| 1. | Siltstone, greywacke with spilite lavas | - | Cambrian |
| 2. | Smithton dolomite | | |
| 3. | Forest Conglomerate | | |
| | -----unconformity----- | | Precambrian |
| 4. | Siltstone, quartzite | | |

Large 1982

- | | | |
|----|--|-------------|
| 1. | Greywacke and siltstones | Cambrian |
| 2. | Dolomite with shale and lenses of basic volcanics (Smithton Dolomite) | |
| 3. | Spilitic lavas plus siltstone, greywacke | Eocambrian |
| 4. | Dolomite | |
| 5. | Forest conglomerate | |
| | -----unconformity----- | Precambrian |
| 6. | Siltstone, quartzite | |

Large (1982) equates the Eocambrian sequence below
the spilitic lava with the King Island Mine series.

5.

EXPLORATION TARGET

Exploration by Geopeko in the Montagu area results from the presence of carbonates in the stratigraphy, the similar lithologies as those on King Island and a gravity low possibly indicating a granite intrusion (see Leaman, 1980).

Three possible targets result from the above combination:

1. A King Island type garnet-scheelite skarn.
2. A Moina type magnetite-cassiterite-scheelite skarn.
3. A Renison Bell pyrrhotite-cassiterite replacement deposit.

6. APPROACH TO EXPLORATION AND WORK COMPLETED

As a result of the low relief in the area of the licence and the extensive thick coverage by recent sands little exploration has taken place in the past. Following on the aeromagnetic survey the first phase of ground exploration was planned to follow up magnetic anomalies and to do a regional geochemical survey.

6.1 Geochemistry

The geochemical sampling was done using a Bombardier mounted Jacro 200 auger rig. Samples were taken at 100m or 200m intervals along tracks and through paddocks approximately cutting across the strike. A total of 345 samples were collected covering a distance of some 41.68km (see plan 1). An attempt was made to ensure that bedrock was reached but deep residual clays and sands prevented this in a number of instances. Rock chips were logged on site in an attempt to compile a geological map of the area.

All samples were assayed by Analabs in Coee for Cu, Pb, Zn, Ag, Fe, As, Co, Ni, Ba, W and Sn. W and Sn analyses were done by XRF with the remainder by A.A.S. The samples were dried, crushed and pulverised by the laboratory. Assay results are presented in a series of profiles along the tracks (see Fig 2) and the full results are given in Appendix 1.

6.2 Geophysics

Ground magnetics was used routinely along the geochemical sample traverses as an aid to the interpretation of the geology (see Fig 2). A Geometrics G816 and a Unimag were used. Thirteen airborne anomalies were followed up on the ground by overlying the magnetics and 1:40 000 airphotos. Tape and compass traverses were then done to locate the anomaly and a possible source. In the report by Large (1982) anomalies were designated A to H (see Fig 3). In the follow up of anomalies topographic or other features have been used to rename some of them.

7. DISCUSSION OF RESULTS

In this section the results of the geological mapping, geochemical traverses and regional ground magnetics are discussed.

7.1 Geology

The geology of the area has been interpreted largely by the use of auger rock chips coupled with the minimal outcrop and airborne magnetics (see Geology Plan 1). A stratigraphic column for the Montagu area from this work is presented below:

| <u>Units</u> | <u>Rock Types</u> | <u>Approximate Thickness</u> |
|--------------|---|------------------------------|
| 1. | Recent and Quaternary sands and clays -----unconformity----- | 15m |
| 2. | Tertiary basalt and sediments -----unconformity----- | 10-50m |
| 3. | Conglomerate, greywacke, siltstone and mudstone | +800m |
| 4. | Dolomite, dolomitic siltstone and shale, chert and basaltic tuff (Smithton Dolomite) | 1000m |
| 5. | Hematitic siltstone | 300-500m |
| 6. | Basic lavas, tuffs and agglomerates | 1000m |
| 7. | Hematitic siltstones | 500m |
| 8. | Silicified carbonates, cherts, blackshales and siltstones -----unconformity----- | 500-1000m |
| 9. | Quartzites and siltstones | |

A comparison of this column and that of Large (1982) is the same in outline and illustrates to date that the ground work in the area has confirmed the aeromagnetic interpretation. A discussion of the geology of the respective units follows.

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Unit 1: The younger sands and clays represent a recent incursion of the sea and cover the low lying swampy areas associated with the Smithton Dolomite and crossed by the Montagu and Welcome Rivers. An average depth of these deposits would be 15 metres with some auger holes unsuccessfully going to 20 metres.

Unit 2: Tertiary Basalt is represented by flows and plugs. In the area around the Montagu township a series of flows result in a fertile area of high ground. Approximately 2km south a circular outcrop of basalt probably represents a feeder plug. In the sediments between Brittons Swamp and Montagu swamp three hills represent basalt feeder plugs. Two have names i.e. Brittons Hill and Rainbow Hill, but collectively they are referred to as the Pawnbrocker anomalies. Two further areas of basalt flows are found in the A.F.H. forestry area one of which forms Marcus Hill.

Unit 3: The youngest Cambrian rock unit comprises sediments outcropping at Stoney Point and striking roughly north south to the Pawnbrocker anomalies. At Stoney Point a cross section of this unit shows an easterly dipping sequence of conglomerates, greywacke and siltstones. Classic features of turbidite flows indicate a facing to the east. On Barcoo Road 3km south of Montagu Road outcrop in road cuttings dips to the west on the edge of the licence and then east as the road swings south suggesting a synformal structure. Rock samples KR 12004 and KR 12005 come from this unit.

Unit 4: The Stoney Point sediments overlay the Smithton Dolomite, dolomitic shales, cherts and basic tuffs. A low lying swampy area covered by younger sands identifies this unit through the area from Montagu to Togari and around to Brittons Swamp. Outcrop is seen in the Montagu River north of the Montagu Road bridge, 2km down Quillams Road and in the Montagu River opposite the end of Quillams Road. In the A.F.H. area well developed caves were examined in the dolomite 1.5km down Grunter Road. Rock sample KR 12006 represents this unit.

Unit 5: Hematitic siltstones and mudstones overlying the Cambrian basic volcanics at the mouth of the Montagu River, in a quarry on Galeford Creek and where the Bass Highway cuts the Bond Tier. These fine grained sediments dip to the east at 40° to 70° and in the Galeford Creek area consist of beds of pink to purple siltstone with joints filled by vuggy specular hematite. Nickelton Mining Investigated a pyritic unit of this sequence just north of the Montagu Bridge. Rock sample No KR 12015 represents this unit.

Unit 6: The Cambrian basic volcanics are represented by basalt flows (spilitic), agglomerates and tuffs. Outcrops of basalt can be observed at the Montagu River mouth, west of the Robbins Island landing, adjacent to the Montague Road 2km west of the bridge and in quarries along the Marrawah track. Outcrops of agglomerate have been located on D. Robertsons farm and approximately 0.6km west of the landing. Tuff outcrops in the Montagu River close to the mouth and at the wall of the Togari Dam on Galeford Creek. Sample No's KR 12001, 12012, 120239, 12014 represent the volcanics.

Unit 7: The hematitic siltstones below the volcanics do not outcrop well but can be observed at the Robbins Island landing. Here they dip at 30° to the south west. A small outcrop was seen on South Quartzite Road 8km south east of the Marrawah track. This unit weathers to red and brown clays up to a depth of 20m.

Unit 8: The lower carbonate unit is comprised of silicified carbonates, cherts, siltstones and blackshales. A quarry along Redbank Road 8km from Buckleys Road exposes silicified carbonate as does one to the south on Jims Plain Road. The remainder of the stratigraphy of this unit was obtained by logging auger chips. Blackshales with pyrite subcrop on South Quartzite Road. Sample No KR 12010 represents the silicified carbonate.

Unit 9: Low lying unforested hills in the centre of the A.F.H. area represent the Precambrian quartzites and siltstones. Numerous outcrops were seen in stream sections along North and South Quartzite Road. Rock samples of these units are KR 12007, 12008 and 12009.

Structure

Structurally the area appears to have been deformed into north-south striking folds with a wavelength of some 6km to 8km. A second phase of deformation has resulted in basin and dome formation. This is illustrated by the major dome structure exposing a central core of Precambrian Quartzites (Unit 9) in the central area of the E.L. This passes north easterly into a basin of basic volcanics (Unit 6) followed by a domed structure exposing Units 7 and 8 along Robbins Beach.

Major faults have tentatively been identified from the aeromagnetic survey. A major fault or fault system cuts the southern end of the central dome structure and appears to have lateral and vertical displacement. North east trending faults displace the aeromagnetic pattern of the basic volcanics in a number of places through the licence and no doubt persist in the surrounding rocks.

7.2 Geochemistry and Regional Ground Magnetics

The various geochemical augering and ground magnetic traverses have been identified by road names, land owners or aeromagnetic anomaly names (see Plan 1). Results have been plotted in profile form (see Fig 2). On completion of the work on Woolnorth a more detailed analysis of the geochemistry will be undertaken. This discussion will follow the stratigraphy as outlined above.

Unit 3: Stoney Point Sediments

Three traverses covered part of this unit adjacent to Barcoo Road. Traverses DB1 and DB2 were across two north west striking linear magnetic features. Part of the Wilson's Paddocks traverse crossed these sediments.

Traverse DB1 has anomalous Zn, Fe, Ba and Ni coincident with a narrow 800nT anomaly. The Zn, Fe and Ni anomaly suggests a basic dyke as a source for the magnetic anomaly. It is possible that the high Ba result indicates a rich feldspar component. No rock chips were obtained over the anomaly.

Traverse DB2 has above background Zn, Cu, Fe and Ba over a weak magnetic anomaly of 250nT. The siltstones from all three traverses show erratic values for Cr but no other anomalous elements.

Unit 4: Smithton Dolomite

The Wilson's Paddocks and Pacey's Paddocks traverses sampled this unit while Dodger's Road and Grunter Road sampled the lowermost part of the dolomite (see Fig 2). Wilson's Paddocks is marked by a 340ppm Zn anomaly with an associated Ni anomaly (250ppm). The upper part of the dolomite in this area has high Ba (up to 1120ppm). Adjacent to the Montagu River on the Pacey's Paddocks traverse anomalous Zn (220ppm), Ni (520ppm), As (75ppm) and Fe (8%) were obtained.

The Grunter Road traverse ended in the dolomite with a Zn (435ppm), Ni (540ppm) and As (65ppm) anomaly. Fe was 9.5% in this sample which corresponds roughly to the Pacey's Paddock anomaly.

Unit 5: Upper Hematitic Siltstones

This unit was covered by the Dodger's Road and Grunter Road traverses. No anomalous results were obtained on these two traverses.

Unit 6: Cambrian Basic Volcanics

The following traverses either started or finished in the Cambrian volcanics:- Buckley's Road, Jim's Plain Road, Grunter Road, Blizzard's Road, South Quartzite Road, Robbins Beach and Dodger's Road. North Boundary Road traverse crossed the basalt twice.

The overall geochemical character of the volcanics is typically basic with increased levels of Cu, Zn, Fe and Ni. It was hoped initially to use Ni and Cr to identify the volcanics but the spiky nature of Cr and the Ni anomalies in sediments precluded this. Ground magnetics along the traverses readily identified the basalt with its typical spiky magnetic anomaly.

Unit 7: Lower Hematitic Siltstone

Parts of this unit are covered by the following traverses:- Robbins Beach, North Boundary Road, Buckley's Road, Redbank Road, Jim's Plain Road, Buckley's Road South and South Quartzite Road.

The only anomalous sample in this unit came from Buckley's Road South. It was anomalous in Zn (690ppm), Ni (430ppm) and Fe (23%). The auger sample had limonitic rock chips in a red clay.

Unit 8: Lower Carbonate

This unit is regarded as the target for possible mineralization although its existence prior to this work was only postulated by Large (1982). Traverses which crossed the lower carbonates were Redbank Road, Redbank Road North and South, Jim's Plain Road, South Quartzite Road, 2ml Road and Robbins Beach.

Along Robbins Beach an interesting series of three anomalies was obtained confined to the carbonates. The central anomaly recorded highly anomalous values of Zn (1000ppm), Cu (1400ppm), Ni (510ppm) and As (490ppm). Approximately 0.6km to either side of this anomaly a Zn (525ppm maximum) and Cu (780ppm maximum) anomaly occurred. The character of the central anomaly is different from the other two while they are very similar with subdued but anomalous Pb, Fe and Ni but no As.

On south Quartzite Road the lower carbonate is marked by a clay rich unit and a blackshale. Increased levels of Zn, Cu, Pb, As and Ni are noted with highly anomalous Ba (1750ppm).

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Although the exact stratigraphic position of 21ml Road is confused by the major fault the carbonates intersected were anomalous in Zn (550ppm), Cu (210ppm) and Pb (80ppm). On Redbank Road a limonitic sample was anomalous in Zn (450ppm), Cu (920ppm), Fe (24%) and As (420ppm).

Unit 9: Precambrian Quartzite and Siltstone

On the eastern end of the North Quartzite Road traverse a good three point anomaly was obtained in clays. Zn peaked at 840ppm with anomalous Cu, Fe, Ni and As. There is some doubt that this anomaly is part of the Precambrian because of the general resistive nature of the quartzites. It is more likely that it belongs to the lower carbonate unit. No other anomalous samples were taken in the Precambrian.

Cow Road falls into the area of stratigraphy to be investigated during the Woolnorth part of this first phase of exploration. It is of interest to note however that carbonates and pyritic blackshales were intersected with anomalous Zn (330ppm), Cu (150ppm), Pb (110ppm) and Ni 520(ppm).

7.3 Ground Follow Up Of Airborne Magnetics

The anomalies that were followed up on the ground are presented in Fig 3. Anomalies that were explained by outcrop of Tertiary Basalt are the two F type anomalies in the north east and group of three Pawnbrocker anomalies in the south east. A fourth plug was identified to the east of them.

Three anomalies were explained by Cambrian basalt outcrop or float with the GM and Nursery anomalies in the centre of the area and Dogwood Drive anomaly to the south. Profiles of these three anomalies are presented in Appendix 2.

Of the remaining three anomalies the DB1 and DB2 were discussed under the geochemistry of the Stoney Point Sediments. Geophysical interpretation of the anomalies suggests a steeply plunging narrow dyke like body which could either conform to a basic dyke or fault filled with gouge.

The last unexplained anomaly is designated FJ and occurs in the Smithton Dolomite covered by low lying swampy ground with dense Tea Tree cover. On the third traverse the northern end of the anomaly was crossed (see Appendix 2). The dense bush stopped any further attempts at magnetic traverses until a grid is cut over the anomaly. No Tertiary Basalt was seen and as the anomaly does not form a topographic high it is possible that the source is not basalt.

8. CONCLUSIONS

At this stage of the first phase of the exploration program it is perhaps premature to reach general conclusions from the work completed to date. It is however possible to comment on some of the results obtained and discussed above.

The auger sampling has illustrated that it is possible to identify and gain a geochemical record of the subcrop. This work has confirmed the interpretation of Large (1982) and identified a prospective stratigraphy in the lower carbonates. These rock types have provided anomalous geochemistry with the most exciting being that of the Robbins Beach traverse.

The work program for the next year will concentrate on the completion of the first phase with perhaps some limited follow up of highly prospective areas.

9.

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APPENDIX 1

LIST OF GEOCHEMICAL RESULTS

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ANALABS

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

CLIENT ORDER No.

PAGE

| TS | | 83.1 08 1412 | | | | 26.8.82 | | KP 2901 - | | 1 OF 8 | |
|--------|------------|--------------|-------|-----|-----|---------|-----|-----------|----|--------|--|
| TS No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Pb | Sn | Ba | |
| 1 | 19501 | 23 | 12.5% | 45 | 220 | 195 | 5 | X | X | 45 | |
| 2 | 19502 | 136 | 10.0% | 105 | 105 | 55 | 13 | X | X | 20 | |
| 3 | 19503 | 96 | 11.5% | 85 | 105 | 65 | 6 | X | X | 60 | |
| 4 | 19504 | 46 | 11.0% | 85 | 110 | 55 | 7 | X | X | 10 | |
| 5 | 19505 | 77 | 12.5% | 100 | 125 | 75 | 18 | X | X | 50 | |
| 6 | 19506 | 27 | 14.5% | 80 | 315 | 60 | 2 | X | X | 5 | |
| 7 | 19507 | 80 | 8.60% | 135 | 25 | 105 | 7 | X | X | 25 | |
| 8 | 19508 | 135 | 11.5% | 85 | 115 | 75 | 25 | X | X | 15 | |
| 9 | 19509 | 122 | 13.0% | 85 | 100 | 55 | 15 | X | X | 10 | |
| 10 | 19510 | 125 | 10.5% | 135 | 75 | 65 | 19 | X | X | 25 | |
| 11 | 19511 | 141 | 11.0% | 120 | 65 | 65 | 27 | X | X | 60 | |
| 12 | 19512 | 30 | 15.5% | 110 | 90 | 55 | 15 | X | X | 30 | |
| 13 | 19513 | 60 | 11.0% | 105 | 90 | 50 | 12 | X | X | 10 | |
| 14 | 19514 | 101 | 14.5% | 85 | 65 | 80 | 31 | X | X | 20 | |
| 15 | 19515 | 22 | 14.5% | 100 | 135 | 60 | 4 | X | X | 55 | |
| 16 | 19516 | 20 | 15.0% | 75 | 175 | 55 | 2 | X | X | 5 | |
| 17 | 19517 | 51 | 10.5% | 125 | 95 | 45 | 19 | X | X | 10 | |
| 18 | 19518 | 70 | 12.0% | 95 | 90 | 40 | 20 | X | X | 15 | |
| 19 | 19519 | 70 | 11.0% | 100 | 85 | 35 | 12 | X | X | 10 | |
| 20 | 19520 | 50 | 9.00% | 100 | 75 | 100 | 9 | X | X | 65 | |
| 21 | 19521 | 79 | 9.00% | 100 | 70 | 70 | 25 | X | X | 70 | |
| 22 | 19522 | 18 | 5.00% | 40 | 25 | 35 | 26 | 0.5 | X | 500 | |
| 23 | 19523 | 72 | 27.5% | 165 | 70 | 290 | 108 | X | X | 345 | |
| 24 | 19524 | 112 | 6.95% | 75 | 35 | 45 | 30 | X | X | 165 | |
| 25 | 19525 | 117 | 7.40% | 90 | 20 | 60 | 53 | 0.5 | X | 65 | |

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 -- = element not determined

AUTHORISED OFFICER

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ANALABS

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

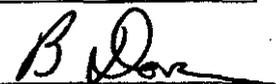
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| TS | | 83.1 08 1412 | | | | 26.8.82 | | KP 2901 | | 2 OF 8 | |
|-------------|------------|--------------|-------|-----|-----|---------|-----|---------|----|--------|--|
| Element No. | Sample No. | Cr | Fe | Ni | Cu | Zn | Pb | Mg | Sn | Ba | |
| 1 | 19526 | 94 | 2700 | 95 | 10 | 10 | 3 | X | X | 75 | |
| 2 | 19527 | 41 | 5.50% | 65 | 25 | 20 | 56 | 0.5 | X | 35 | |
| 3 | 19528 | 105 | 2.95% | 90 | 20 | 20 | 31 | X | X | 115 | |
| 4 | 19529 | 200 | 5050 | 180 | 20 | 10 | 4 | X | X | 50 | |
| 5 | 19530 | 12 | 1.10% | 35 | 20 | 10 | 13 | X | X | 370 | |
| 6 | 19531 | 23 | 10.5% | 90 | 95 | 45 | 82 | 0.5 | X | 445 | |
| 7 | 19532 | 33 | 9700 | 160 | 15 | 65 | 35 | X | X | 360 | |
| 8 | 19533 | 67 | 11.0% | 115 | 20 | 55 | 103 | X | X | 50 | |
| 9 | 19534 | 16 | 4.25% | 80 | 35 | 70 | 47 | X | X | 120 | |
| 10 | 19535 | 16 | 4200 | 30 | 35 | 30 | 7 | 0.5 | X | 30 | |
| 11 | 19536 | 31 | 27.0% | 770 | 925 | 455 | 420 | X | X | 120 | |
| 12 | 19537 | 33 | 8.75% | 400 | 110 | 300 | 42 | X | 55 | 310 | |
| 13 | 19538 | 7 | 1900 | 30 | 20 | 40 | 3 | X | X | 70 | |
| 14 | 19539 | 18 | 8400 | 90 | 5 | 5 | 10 | X | X | 50 | |
| 15 | 19540 | 72 | 1.70% | 110 | 30 | 50 | 17 | X | X | 610 | |
| 16 | 19541 | 100 | 1.50% | 60 | 10 | 15 | 7 | X | X | 225 | |
| 17 | 19542 | 8 | 4450 | 60 | 15 | 15 | X | 0.5 | X | 320 | |
| 18 | 19543 | 83 | 1.45% | 120 | 10 | 65 | 5 | X | X | 70 | |
| 19 | 19544 | 70 | 3.50% | 40 | 5 | 10 | 12 | 0.5 | X | 55 | |
| 20 | 19545 | 9 | 3.85% | 40 | 55 | 40 | 5 | X | X | 305 | |
| 21 | 19546 | 16 | 7.40% | 55 | 85 | 90 | X | X | X | 345 | |
| 22 | 19547 | 55 | 1.95% | 80 | 15 | 35 | X | 0.5 | X | 50 | |
| 23 | 19548 | 126 | 5300 | 70 | 10 | 10 | X | X | X | 70 | |
| 24 | 19549A | 7 | 4100 | 115 | 10 | 20 | X | 0.5 | X | 640 | |
| 25 | 19549B | 6 | 2950 | 100 | 10 | 15 | X | X | X | 640 | |

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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|----------|------------|--------------|-------|-----|----|---------|----|---------|----|--------|--|
| TEST No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Pb | Sn | Ba | |
| 1 | 19550 | 30 | 1550 | 75 | X | X | X | 0.5 | X | 55 | |
| 2 | 19551 | 35 | 2750 | 80 | 5 | 10 | X | 0.5 | X | 70 | |
| 3 | 19552 | 16 | 1.35% | 40 | 15 | 30 | 7 | X | X | 90 | |
| 4 | 19553 | 41 | 2850 | 75 | 10 | 10 | X | 0.5 | X | 115 | |
| 5 | 19554 | 90 | 4500 | 125 | 10 | 10 | 4 | X | X | 80 | |
| 6 | 19555 | 118 | 5650 | 130 | 40 | 60 | 22 | 0.5 | X | 185 | |
| 7 | 19556 | 125 | 2900 | 80 | 5 | 10 | X | 0.5 | X | 35 | |
| 8 | 19557 | 17 | 14.5% | 60 | 95 | 100 | 8 | X | X | 530 | |
| 9 | 19558 | 10 | 9.30% | 40 | 80 | 50 | 6 | X | X | 515 | |
| 10 | 19559 | 166 | 2850 | 75 | 5 | 5 | X | 0.5 | X | 65 | |
| 11 | 19560 | 63 | 9300 | 100 | 50 | 40 | 10 | 0.5 | X | 205 | |
| 12 | 19561 | 41 | 2050 | 70 | 10 | 10 | X | X | X | 255 | |
| 13 | 19562 | 104 | 2950 | 85 | 5 | 10 | X | 0.5 | X | 120 | |
| 14 | 19563 | 120 | 3150 | 90 | 15 | 15 | X | X | X | 50 | |
| 15 | | | | | | | | | | | |
| 16 | | | | | | | | | | | |
| 17 | | | | | | | | | | | |
| 18 | | | | | | | | | | | |
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| 25 | | | | | | | | | | | |

Results in ppm unless otherwise specified
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|--------|------------|--------------|----|--|---------|--|---------|--|--------|--|
| BE No. | SAMPLE No. | W | Pb | | | | | | | |
| 1 | 19501 | 7 | 5 | | | | | | | |
| 2 | 19502 | X | 30 | | | | | | | |
| 3 | 19503 | X | 40 | | | | | | | |
| 4 | 19504 | 5 | 5 | | | | | | | |
| 5 | 19505 | X | 10 | | | | | | | |
| 6 | 19506 | X | X | | | | | | | |
| 7 | 19507 | X | X | | | | | | | |
| 8 | 19508 | X | 10 | | | | | | | |
| 9 | 19509 | 7 | 10 | | | | | | | |
| 10 | 19510 | 13 | 10 | | | | | | | |
| 11 | 19511 | X | 15 | | | | | | | |
| 12 | 19512 | 14 | 5 | | | | | | | |
| 13 | 19513 | X | X | | | | | | | |
| 14 | 19514 | X | 5 | | | | | | | |
| 15 | 19515 | 6 | X | | | | | | | |
| 16 | 19516 | 6 | X | | | | | | | |
| 17 | 19517 | 5 | 5 | | | | | | | |
| 18 | 19518 | X | 5 | | | | | | | |
| 19 | 19519 | X | 5 | | | | | | | |
| 20 | 19520 | X | 10 | | | | | | | |
| 21 | 19521 | X | 5 | | | | | | | |
| 22 | 19522 | X | 5 | | | | | | | |
| 23 | 19523 | 10 | 35 | | | | | | | |
| 24 | 19524 | X | 10 | | | | | | | |
| 25 | 19525 | X | X | | | | | | | |

Results in ppm unless otherwise specified
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 - = element not determined

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|--------|------------|--------------|----|--|--|---------|--|---------|--|--------|--|
| TS No. | SAMPLE No. | W | Pb | | | | | | | | |
| 1 | 19526 | 10 | X | | | | | | | | |
| 2 | 19527 | X | X | | | | | | | | |
| 3 | 19528 | 25 | X | | | | | | | | |
| 4 | 19529 | 22 | X | | | | | | | | |
| 5 | 19530 | X | 10 | | | | | | | | |
| 6 | 19531 | X | 30 | | | | | | | | |
| 7 | 19532 | 5 | X | | | | | | | | |
| 8 | 19533 | 5 | 5 | | | | | | | | |
| 9 | 19534 | 4 | X | | | | | | | | |
| 10 | 19535 | X | X | | | | | | | | |
| 11 | 19536 | 45 | 50 | | | | | | | | |
| 12 | 19537 | 18 | 10 | | | | | | | | |
| 13 | 19538 | 4 | 5 | | | | | | | | |
| 14 | 19539 | 10 | X | | | | | | | | |
| 15 | 19540 | 10 | 15 | | | | | | | | |
| 16 | 19541 | X | 5 | | | | | | | | |
| 17 | 19542 | X | 15 | | | | | | | | |
| 18 | 19543 | X | 50 | | | | | | | | |
| 19 | 19544 | X | 5 | | | | | | | | |
| 20 | 19545 | X | 10 | | | | | | | | |
| 21 | 19546 | 6 | 10 | | | | | | | | |
| 22 | 19547 | 6 | 5 | | | | | | | | |
| 23 | 19548 | 8 | 5 | | | | | | | | |
| 24 | 19549A | X | 5 | | | | | | | | |
| 25 | 19549B | 4 | X | | | | | | | | |

Results in ppm unless otherwise specified

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|----------|------------|--------------|-----|---------|--|---------|--|--------|--|
| LINE No. | SAMPLE No. | W | Pb | | | | | | |
| 1 | 19550 | 7 | 5 | | | | | | |
| 2 | 19551 | 4 | 5 | | | | | | |
| 3 | 19552 | 6 | 10 | | | | | | |
| 4 | 19553 | 5 | X | | | | | | |
| 5 | 19554 | 41 | 5 | | | | | | |
| 6 | 19555 | 4 | 10 | | | | | | |
| 7 | 19556 | 4 | X | | | | | | |
| 8 | 19557 | X | 40 | | | | | | |
| 9 | 19558 | X | 15 | | | | | | |
| 10 | 19559 | 4 | 10 | | | | | | |
| 11 | 19560 | 4 | 10 | | | | | | |
| 12 | 19561 | X | 175 | | | | | | |
| 13 | 19562 | 16 | 5 | | | | | | |
| 14 | 19563 | X | 5 | | | | | | |
| 15 | | | | | | | | | |
| 16 | | | | | | | | | |
| 17 | | | | | | | | | |
| 18 | | | | | | | | | |
| 19 | | | | | | | | | |
| 20 | | | | | | | | | |
| 21 | | | | | | | | | |
| 22 | | | | | | | | | |
| 23 | | | | | | | | | |
| 24 | | | | | | | | | |

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|--------|------------|--------------|-------|-----|-----|--------|-----|---------|-----|--------|--|
| SE No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Ag | Ba | Pb | |
| 1 | 19564 | 65 | 2200 | 88 | 10 | 20 | 3 | X | 95 | 30 | |
| 2 | 19565 | 99 | 1.50% | 220 | 165 | 150 | 10 | X | 35 | 5 | |
| 3 | 19566 | 129 | 2650 | 17 | 20 | 25 | 5 | X | 115 | 5 | |
| 4 | 19567 | 95 | 4.65% | 380 | 70 | 190 | 24 | X | 95 | 20 | |
| 5 | 19568 | 240 | 1.15% | 320 | 20 | 65 | 13 | X | 45 | 10 | |
| 6 | 19569 | 148 | 8150 | 320 | 15 | 75 | 9 | X | 50 | 10 | |
| 7 | 19570 | 330 | 8550 | 320 | 10 | 20 | 7 | X | 15 | X | |
| 8 | 19571 | 390 | 7950 | 290 | 10 | 10 | 4 | X | 5 | X | |
| 9 | 19572 | 82 | 1600 | 65 | 10 | 10 | 29 | X | X | X | |
| 10 | 19573 | 12 | 2600 | 25 | 5 | 10 | 4 | X | 45 | X | |
| 11 | 19574 | 9 | 1550 | 7 | 5 | 10 | 5 | X | 35 | X | |
| 12 | 19575 | 340 | 8350 | 280 | 10 | 5 | 5 | X | 5 | X | |
| 13 | 19576 | 8 | 8050 | 26 | 5 | 10 | 6 | X | 40 | X | |
| 14 | 19577 | 260 | 2750 | 7 | 5 | 5 | X | X | 20 | X | |
| 15 | 19578 | 27 | 5150 | 47 | 10 | 10 | 3 | 0.5 | 95 | 10 | |
| 16 | 19579 | 52 | 3350 | 77 | 5 | 10 | 4 | 0.5 | 20 | X | |
| 17 | 19580 | 12 | 5950 | 37 | 5 | 10 | 4 | X | 155 | X | |
| 18 | 19581 | 51 | 2600 | 30 | 10 | 10 | 3 | X | 20 | X | |
| 19 | 19582 | 13 | 7300 | 22 | 5 | 15 | 4 | X | 50 | X | |
| 20 | 19583 | 17 | 1.05% | 82 | 10 | 20 | 4 | X | 55 | X | |
| 21 | 19584 | 8 | 6000 | 48 | 10 | 15 | 9 | X | 75 | 5 | |
| 22 | 19585 | 12 | 1.35% | 99 | 5 | 30 | 5 | X | 45 | X | |
| 23 | 19586 | 178 | 7450 | 130 | 10 | 15 | 4 | X | 75 | 15 | |
| 24 | 19587 | 168 | 4700 | 310 | 160 | 380 | 104 | X | 30 | 10 | |
| 25 | 19588 | 183 | 2.30% | 540 | 85 | 845 | 61 | X | 140 | X | |

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|--------|------------|--------------|-------|-----|-----|--------|-----|---------|-----|--------|--|
| BE No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Ag | Ba | Pb | |
| 1 | 19589 | 117 | 10.5% | 590 | 120 | 540 | 106 | X | 110 | 10 | |
| 2 | 19590 | 46 | 6700 | 100 | 20 | 30 | 13 | X | 60 | X | |
| 3 | 19591 | 24 | 1.65% | 42 | 25 | 65 | 11 | X | 5 | 10 | |
| 4 | 19592 | 430 | 1.00% | 410 | 15 | 15 | 7 | X | 40 | 5 | |
| 5 | 19593 | 82 | 3500 | 51 | 15 | 15 | 4 | X | 170 | X | |
| 6 | 19594 | 20 | 2.10% | 112 | 35 | 35 | 22 | X | 165 | X | |
| 7 | 19595 | 31 | 6.30% | 96 | 55 | 80 | 37 | X | 180 | X | |
| 8 | 19596 | 147 | 10.0% | 146 | 85 | 125 | 11 | X | 105 | X | |
| 9 | 19597 | 137 | 11.5% | 151 | 85 | 135 | 7 | X | 80 | X | |
| 10 | 19598 | 150 | 7.00% | 41 | 55 | 90 | 6 | X | 125 | X | |
| 11 | 19599 | 45 | 10.5% | 94 | 330 | 195 | 6 | X | 90 | X | |
| 12 | 19600 | 64 | 13.5% | 205 | 230 | 160 | 9 | X | 100 | X | |
| 13 | 19601 | 27 | 11.5% | 78 | 465 | 120 | 6 | X | 80 | X | |
| 14 | 19602 | 48 | 13.5% | 162 | 460 | 105 | 5 | X | 105 | X | |
| 15 | 19603 | 34 | 12.0% | 70 | 185 | 70 | 5 | X | 30 | X | |
| 16 | 19604 | 41 | 12.5% | 59 | 190 | 60 | 7 | X | 50 | 10 | |
| 17 | 19605 | 52 | 13.0% | 250 | 235 | 75 | 3 | X | 55 | 5 | |
| 18 | 19606 | 32 | 14.5% | 80 | 215 | 85 | 4 | X | 105 | 5 | |
| 19 | 19607 | 35 | 11.5% | 106 | 485 | 125 | 3 | X | 120 | 10 | |
| 20 | 19608 | 23 | 10.5% | 66 | 245 | 130 | 2 | X | 55 | 5 | |
| 21 | 19609 | 25 | 10.0% | 189 | 265 | 105 | 3 | X | 40 | X | |
| 22 | 19610 | 169 | 10.0% | 98 | 70 | 125 | 25 | 0.5 | 45 | 15 | |
| 23 | 19611 | 167 | 9.35% | 106 | 65 | 85 | 39 | X | 70 | 10 | |
| 24 | 19612 | 250 | 10.0% | 81 | 55 | 95 | 66 | X | 40 | 30 | |
| 25 | 19613 | 117 | 12.0% | 55 | 75 | 75 | 35 | X | 50 | 20 | |

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|--------|------------|--------------|-------|-----|-----|--------|----|---------|-----|--------|--|
| BE No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Ag | Ba | Pb | |
| 1 | 19614 | 102 | 10.0% | 104 | 100 | 40 | 12 | X | 85 | 10 | |
| 2 | 19615 | 131 | 9.55% | 49 | 95 | 50 | 33 | X | 15 | 5 | |
| 3 | 19616 | 41 | 7.90% | 111 | 50 | 65 | 32 | 0.5 | 120 | 10 | |
| 4 | 19617 | 103 | 23.0% | 430 | 90 | 690 | 88 | X | 25 | 20 | |
| 5 | 19618 | 127 | 10.0% | 102 | 65 | 75 | 21 | X | 100 | 10 | |
| 6 | 19619 | 48 | 16.0% | 92 | 180 | 80 | 7 | X | 15 | 5 | |
| 7 | 19620 | 66 | 10.0% | 76 | 65 | 70 | 11 | X | 45 | X | |
| 8 | 19621 | 111 | 11.5% | 107 | 65 | 80 | 10 | X | 45 | 15 | |
| 9 | 19622 | 52 | 11.5% | 76 | 255 | 115 | 5 | X | 60 | 10 | |
| 10 | 19623 | 32 | 10.0% | 64 | 65 | 60 | 7 | X | 100 | X | |
| 11 | 19624 | 165 | 12.0% | 88 | 65 | 185 | 21 | X | 35 | 50 | |
| 12 | 19625 | 152 | 8.15% | 120 | 45 | 140 | 11 | X | 45 | 35 | |
| 13 | 19626 | 57 | 8.45% | 40 | 55 | 50 | 17 | X | 60 | 15 | |
| 14 | 19627 | 161 | 10.5% | 130 | 45 | 150 | 21 | X | 70 | 30 | |
| 15 | 19628 | 148 | 7.75% | 43 | 50 | 45 | 38 | X | 75 | 15 | |
| 16 | 19629 | 18 | 12.0% | 93 | 210 | 100 | 7 | X | 15 | 10 | |
| 17 | 19630 | 65 | 10.5% | 280 | 195 | 75 | 6 | X | 40 | X | |
| 18 | 19631 | 51 | 12.0% | 68 | 440 | 75 | 4 | X | 40 | 5 | |
| 19 | 19632 | 91 | 11.0% | 53 | 110 | 60 | 12 | X | 30 | 5 | |
| 20 | 19633 | 29 | 12.5% | 32 | 130 | 110 | 8 | X | 20 | 10 | |
| 21 | 19634 | 16 | 12.5% | 24 | 280 | 75 | 8 | X | 30 | 5 | |
| 22 | 19635 | 520 | 10.0% | 130 | 40 | 85 | 6 | X | 50 | 5 | |
| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |

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|--------|--------------|----|--------|--|---------|--|--------|--|
| BE No. | SAMPLE No. | Sn | W | | | | | |
| 1 | 19564 | 5 | 17 | | | | | |
| 2 | 19565 | X | X | | | | | |
| 3 | 19566 | X | 9 | | | | | |
| 4 | 19567 | X | 4 | | | | | |
| 5 | 19568 | X | 15 | | | | | |
| 6 | 19569 | X | X | | | | | |
| 7 | 19570 | X | 5 | | | | | |
| 8 | 19571 | X | X | | | | | |
| 9 | 19572 | X | 5 | | | | | |
| 10 | 19573 | X | X | | | | | |
| 11 | 19574 | X | X | | | | | |
| 12 | 19575 | X | 9 | | | | | |
| 13 | 19576 | X | X | | | | | |
| 14 | 19577 | X | X | | | | | |
| 15 | 19578 | X | X | | | | | |
| 16 | 19579 | X | 7 | | | | | |
| 17 | 19580 | X | X | | | | | |
| 18 | 19581 | X | X | | | | | |
| 19 | 19582 | X | X | | | | | |
| 20 | 19583 | X | X | | | | | |
| 21 | 19584 | X | X | | | | | |
| 22 | 19585 | X | X | | | | | |
| 23 | 19586 | X | X | | | | | |
| 24 | 19587 | X | X | | | | | |
| 25 | 19588 | X | 4 | | | | | |

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|----------|------------|----|----|--------------|--|--|--|--------|--|---------|--|-------------|--|
| TUBE No. | SAMPLE No. | Sn | W | | | | | | | | | | |
| 1 | 19589 | X | X | | | | | | | | | | |
| 2 | 19590 | X | X | | | | | | | | | | |
| 3 | 19591 | X | 12 | | | | | | | | | | |
| 4 | 19592 | X | X | | | | | | | | | | |
| 5 | 19593 | X | X | | | | | | | | | | |
| 6 | 19594 | X | 15 | | | | | | | | | | |
| 7 | 19595 | X | X | | | | | | | | | | |
| 8 | 19596 | X | 21 | | | | | | | | | | |
| 9 | 19597 | X | 4 | | | | | | | | | | |
| 10 | 19598 | X | 6 | | | | | | | | | | |
| 11 | 19599 | X | 11 | | | | | | | | | | |
| 12 | 19600 | X | 26 | | | | | | | | | | |
| 13 | 19601 | X | 5 | | | | | | | | | | |
| 14 | 19602 | X | 24 | | | | | | | | | | |
| 15 | 19603 | X | X | | | | | | | | | | |
| 16 | 19604 | X | 22 | | | | | | | | | | |
| 17 | 19605 | X | 13 | | | | | | | | | | |
| 18 | 19606 | X | 12 | | | | | | | | | | |
| 19 | 19607 | X | X | | | | | | | | | | |
| 20 | 19608 | X | X | | | | | | | | | | |
| 21 | 19609 | X | X | | | | | | | | | | |
| 22 | 19610 | X | X | | | | | | | | | | |
| 23 | 19611 | X | X | | | | | | | | | | |
| 24 | 19612 | X | X | | | | | | | | | | |
| 25 | 19613 | X | 11 | | | | | | | | | | |

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|--------|------------|--------------|-----|--|--------|--|---------|--|--------|--|
| SE No. | SAMPLE No. | Sn | W | | | | | | | |
| 1 | 19614 | X | 11 | | | | | | | |
| 2 | 19615 | X | X | | | | | | | |
| 3 | 19616 | X | 36 | | | | | | | |
| 4 | 19617 | X | 39 | | | | | | | |
| 5 | 19618 | X | 10 | | | | | | | |
| 6 | 19619 | X | X | | | | | | | |
| 7 | 19620 | X | 23 | | | | | | | |
| 8 | 19621 | X | 5 | | | | | | | |
| 9 | 19622 | X | 25 | | | | | | | |
| 10 | 19623 | X | 5 | | | | | | | |
| 11 | 19624 | X | 22 | | | | | | | |
| 12 | 19625 | X | 10 | | | | | | | |
| 13 | 19626 | X | X | | | | | | | |
| 14 | 19627 | X | 19 | | | | | | | |
| 15 | 19628 | X | 10 | | | | | | | |
| 16 | 19629 | X | 11 | | | | | | | |
| 17 | 19630 | X | X | | | | | | | |
| 18 | 19631 | X | X | | | | | | | |
| 19 | 19632 | X | 6 | | | | | | | |
| 20 | 19633 | X | X | | | | | | | |
| 21 | 19634 | X | 17 | | | | | | | |
| 22 | 19635 | X | 13 | | | | | | | |
| 23 | DETECTION | 4 | 4 | | | | | | | |
| 24 | DIGESTION | | | | | | | | | |
| | METHOD | 402 | 401 | | | | | | | |

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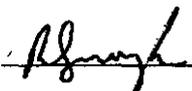
| | | | 83.1 08 1495 | | | 5.10.82 | | KP 2909 | | 1 OF 10 | |
|------------|------------|-----|--------------|-----|-----|---------|----|---------|----|---------|--|
| SAMPLE No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Pb | Sn | Ba | |
| 1 | 19636 | 36 | 2700 | 64 | 10 | 10 | 2 | 0.5 | 7 | 70 | |
| 2 | 19637 | 36 | 10.0% | 250 | 155 | 310 | 28 | X | X | 460 | |
| 3 | 19638 | 27 | 7.75% | 113 | 95 | 115 | 20 | X | X | 235 | |
| 4 | 19639 | 31 | 1.75% | 37 | 40 | 75 | 15 | X | X | 30 | |
| 5 | 19640 | 15 | 7.60% | 53 | 30 | 130 | 26 | X | X | 30 | |
| 6 | 19641 | 17 | 4.75% | 100 | 125 | 335 | 15 | X | X | 95 | |
| 7 | 19642 | 125 | 3.75% | 139 | 30 | 125 | 12 | X | X | 65 | |
| 8 | 19643 | 112 | 1.55% | 80 | 10 | 65 | 10 | X | X | 20 | |
| 9 | 19644 | 480 | 9400 | 100 | 5 | 35 | 19 | X | X | 45 | |
| 10 | 19645 | 34 | 1.80% | 156 | 25 | 185 | 53 | X | X | 55 | |
| 11 | 19646 | 61 | 2.15% | 220 | 35 | 315 | 20 | X | X | 105 | |
| 12 | 19647 | 320 | 1.60% | 186 | 10 | 70 | 46 | X | X | 35 | |
| 13 | 19648 | 240 | 4.30% | 194 | 70 | 85 | 13 | X | X | 65 | |
| 14 | 19649 | 200 | 6.00% | 470 | 65 | 145 | 27 | X | X | 25 | |
| 15 | 19650 | 240 | 6.30% | 520 | 90 | 155 | 16 | X | X | 15 | |
| 16 | 19651 | 260 | 6.75% | 480 | 65 | 155 | 10 | X | X | 15 | |
| 17 | 19652 | 186 | 6.00% | 260 | 70 | 135 | 12 | X | X | 20 | |
| 18 | 19653 | 153 | 7.60% | 420 | 70 | 130 | 16 | X | 4 | 15 | |
| 19 | 19654 | 210 | 7.35% | 450 | 60 | 130 | 13 | X | X | 45 | |
| 20 | 19655 | 380 | 8.85% | 168 | 100 | 105 | 5 | X | X | 85 | |
| 21 | 19656 | 183 | 1.00% | 620 | 90 | 355 | 60 | X | X | 40 | |
| 22 | 19657 | 161 | 1.25% | 54 | 10 | 40 | 19 | X | X | 55 | |
| 23 | 19658 | 39 | 9050 | 270 | 150 | 480 | 29 | X | X | 125 | |
| 24 | 19659 | 19 | 11.5% | 58 | 135 | 85 | 28 | X | X | 550 | |
| 25 | 19660 | 13 | 10.0% | 61 | 115 | 55 | 5 | X | X | 10 | |

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

— = element not determined

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|--------|------------|--------------|-------|-----|-----|---------|----|---------|----|---------|--|
| BE No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Ag | Sn | Ba | |
| 1 | 19661 | 62 | 1.80% | 300 | 55 | 230 | 79 | X | X | 140 | |
| 2 | 19662 | 39 | 5.60% | 104 | 80 | 95 | 12 | X | X | 450 | |
| 3 | 19663 | 14 | 3.60% | 240 | 215 | 550 | 29 | X | X | 570 | |
| 4 | 19664 | 7 | 2.25% | 45 | 70 | 25 | 5 | X | X | 360 | |
| 5 | 19665 | 10 | 2.75% | 50 | 110 | 75 | 1 | X | X | 300 | |
| 6 | 19666 | 75 | 2600 | 62 | 5 | 10 | X | X | X | 65 | |
| 7 | 19667 | 92 | 2000 | 52 | X | 30 | 2 | 0.5 | X | 60 | |
| 8 | 19668 | 32 | 5.40% | 112 | 80 | 170 | 8 | X | X | 480 | |
| 9 | 19669 | 40 | 5.35% | 74 | 95 | 65 | 16 | X | X | 450 | |
| 10 | 19670 | 18 | 1700 | 132 | 15 | 15 | 4 | 0.5 | X | 60 | |
| 11 | 19671 | 45 | 3050 | 54 | 5 | 5 | 3 | X | X | 70 | |
| 12 | 19672 | 28 | 3650 | 91 | 5 | 20 | X | 0.5 | X | 40 | |
| 13 | 19673 | X | 2700 | 10 | X | 5 | X | X | X | 30 | |
| 14 | 19674 | 2 | 3100 | 36 | X | 10 | X | 0.5 | X | 25 | |
| 15 | 19675 | 33 | 5350 | 46 | X | 10 | 3 | 0.5 | X | 50 | |
| 16 | 19676 | 4 | 6200 | 28 | 5 | 15 | 2 | 0.5 | X | 160 | |
| 17 | 19677 | 3 | 8300 | 46 | 5 | 30 | 6 | X | X | 120 | |
| 18 | 19678 | 78 | 5450 | 75 | 10 | 25 | 3 | X | X | 80 | |
| 19 | 19679 | 145 | 2850 | 125 | 5 | 20 | 2 | 0.5 | X | 130 | |
| 20 | 19680 | 210 | 5050 | 75 | 5 | 30 | 20 | 0.5 | X | 40 | |
| 21 | 19681 | 164 | 1050 | 6 | 5 | 5 | 2 | X | X | 5 | |
| 22 | 19682 | 35 | 4.80% | 310 | 75 | 290 | 35 | 1.0 | 4 | 185 | |
| 23 | 19683 | 28 | 8.80% | 200 | 80 | 175 | 34 | X | X | 1750 | |
| 24 | 19684 | 7 | 3700 | 56 | 270 | 30 | 17 | 0.5 | 5 | 620 | |
| 25 | 19685 | 29 | 9300 | 80 | 185 | 40 | 16 | 0.5 | X | 1100 | |

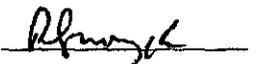
Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

- = element not determined

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ANALYTICAL DATA

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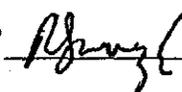
| BE No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Pb | Sn | Ba |
|--------|------------|-----|-------|-----|-----|-----|----|-----|----|-----|
| 1 | 19686 | 119 | 4.40% | 210 | 35 | 85 | 2 | 0.5 | X | 335 |
| 2 | 19687 | 83 | 3.85% | 113 | 35 | 65 | 3 | X | X | 150 |
| 3 | 19688 | 32 | 6.60% | 230 | 105 | 220 | 3 | X | X | 205 |
| 4 | 19689 | 84 | 2.40% | 64 | 40 | 60 | 6 | 1.0 | X | 170 |
| 5 | 19690 | 81 | 12.0% | 250 | 175 | 360 | 5 | X | X | 75 |
| 6 | 19691 | 63 | 14.5% | 117 | 145 | 75 | 20 | X | X | 70 |
| 7 | 19692 | 9 | 14.5% | 37 | 25 | 225 | 6 | 0.5 | X | 40 |
| 8 | 19693 | 17 | 9.65% | 96 | 120 | 185 | 5 | X | X | 90 |
| 9 | 19694 | 30 | 14.0% | 150 | 110 | 115 | 30 | X | X | 25 |
| 10 | 19695 | 11 | 14.0% | 93 | 95 | 65 | 7 | X | X | 130 |
| 11 | 19696 | 53 | 8.80% | 92 | 85 | 65 | 27 | 0.5 | X | 140 |
| 12 | 19697 | 39 | 9.70% | 86 | 80 | 110 | 14 | X | X | 100 |
| 13 | 19698 | 110 | 9.95% | 114 | 75 | 135 | 14 | 0.5 | X | 100 |
| 14 | 19699 | 50 | 9.40% | 540 | 130 | 440 | 68 | X | X | 110 |
| 15 | 19700 | 42 | 1.30% | 104 | 45 | 190 | 11 | X | X | 80 |
| 16 | 19701 | 32 | 14.0% | 66 | 35 | 85 | 11 | X | X | 50 |
| 17 | 19702 | 33 | 5.25% | 102 | 50 | 150 | 4 | X | X | 85 |
| 18 | 19703 | 63 | 10.5% | 76 | 10 | 65 | 4 | 0.5 | X | 50 |
| 19 | 19704 | 94 | 10.0% | 102 | 115 | 185 | 12 | X | X | 75 |
| 20 | 19705 | 190 | 10.0% | 191 | 150 | 155 | 5 | X | X | 130 |
| 21 | 19706 | 117 | 14.5% | 143 | 65 | 225 | 5 | X | X | 150 |
| 22 | 19707 | 130 | 10.0% | 133 | 125 | 125 | 6 | X | X | 315 |
| 23 | 19708 | 161 | 9.15% | 94 | 110 | 155 | 6 | X | X | 130 |
| 24 | 19709 | 138 | 4.70% | 65 | 35 | 25 | 12 | 0.5 | X | 10 |
| 25 | 19710 | 164 | 11.0% | 46 | 80 | 45 | 27 | X | X | 15 |

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

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- = element not determined

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ANALYTICAL DATA

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REPORT NUMBER

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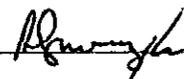
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| | | 83.1 08 1495 | | | | 5.10.82 | | KP 2909 | | 4 OF 10 | |
|--------|------------|--------------|-------|----|-----|---------|----|---------|----|---------|--|
| BE No. | SAMPLE No. | Cr | Fe | Ni | Cu | Zn | As | Pb | Sn | Ba | |
| 1 | 19711 | 95 | 10.0% | 69 | 85 | 100 | 35 | X | X | 15 | |
| 2 | 19712 | 94 | 9.55% | 92 | 100 | 115 | 21 | 0.5 | X | 100 | |
| 3 | 19713 | 122 | 10.5% | 77 | 115 | 85 | 18 | X | X | 60 | |
| 4 | 19714 | 135 | 10.0% | 54 | 120 | 90 | 11 | X | X | 50 | |
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Results in ppm unless otherwise specified
 T = element present, but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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|---------------|------------|---|---------------|-------------|------------------|---------|
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| BE No. | SAMPLE No. | W | Pb | | | |
| 1 | 19636 | X | X | | | |
| 2 | 19637 | X | 15 | | | |
| 3 | 19638 | X | 10 | | | |
| 4 | 19639 | X | 20 | | | |
| 5 | 19640 | X | 15 | | | |
| 6 | 19641 | X | 25 | | | |
| 7 | 19642 | X | 10 | | | |
| 8 | 19643 | X | 5 | | | |
| 9 | 19644 | X | X | | | |
| 10 | 19645 | X | 105 | | | |
| 11 | 19646 | X | 55 | | | |
| 12 | 19647 | X | X | | | |
| 13 | 19648 | X | X | | | |
| 14 | 19649 | X | X | | | |
| 15 | 19650 | X | 5 | | | |
| 16 | 19651 | X | 5 | | | |
| 17 | 19652 | X | X | | | |
| 18 | 19653 | X | X | | | |
| 19 | 19654 | X | X | | | |
| 20 | 19655 | X | X | | | |
| 21 | 19656 | X | 5 | | | |
| 22 | 19657 | X | X | | | |
| 23 | 19658 | X | X | | | |
| 24 | 19659 | X | X | | | |
| 25 | 19660 | X | X | | | |

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 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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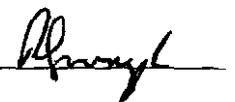
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| | | | | 83.1 08 1495 | 5.10.82 | KP 2909 | 7 OF 10 | |
|--------|------------|----|----|--------------|---------|---------|---------|--|
| BE No. | SAMPLE No. | W | Pb | | | | | |
| 1 | 19661 | X | X | | | | | |
| 2 | 19662 | X | 5 | | | | | |
| 3 | 19663 | X | 80 | | | | | |
| 4 | 19664 | X | 35 | | | | | |
| 5 | 19665 | X | 10 | | | | | |
| 6 | 19666 | X | X | | | | | |
| 7 | 19667 | X | 20 | | | | | |
| 8 | 19668 | X | 20 | | | | | |
| 9 | 19669 | X | 25 | | | | | |
| 10 | 19670 | X | X | | | | | |
| 11 | 19671 | X | 20 | | | | | |
| 12 | 19672 | X | X | | | | | |
| 13 | 19673 | X | X | | | | | |
| 14 | 19674 | X | X | | | | | |
| 15 | 19675 | X | 15 | | | | | |
| 16 | 19676 | X | 5 | | | | | |
| 17 | 19677 | X | 5 | | | | | |
| 18 | 19678 | X | X | | | | | |
| 19 | 19679 | X | 5 | | | | | |
| 20 | 19680 | X | X | | | | | |
| 21 | 19681 | 11 | X | | | | | |
| 22 | 19682 | X | 10 | | | | | |
| 23 | 19683 | X | 35 | | | | | |
| 24 | 19684 | X | 40 | | | | | |
| 25 | 19685 | X | 10 | | | | | |

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
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SAMPLE PREFIX

REPORT NUMBER

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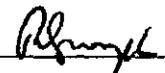
| BE No. | SAMPLE No. | W | Pb | | | | | | |
|--------|------------|---|----|--|--|--|--|--|--|
| 1 | 19686 | X | 5 | | | | | | |
| 2 | 19687 | X | X | | | | | | |
| 3 | 19688 | X | X | | | | | | |
| 4 | 19689 | X | X | | | | | | |
| 5 | 19690 | X | X | | | | | | |
| 6 | 19691 | X | X | | | | | | |
| 7 | 19692 | X | 5 | | | | | | |
| 8 | 19693 | X | X | | | | | | |
| 9 | 19694 | X | X | | | | | | |
| 10 | 19695 | X | X | | | | | | |
| 11 | 19696 | X | 15 | | | | | | |
| 12 | 19697 | X | X | | | | | | |
| 13 | 19698 | X | 10 | | | | | | |
| 14 | 19699 | X | 30 | | | | | | |
| 15 | 19700 | X | 75 | | | | | | |
| | 19701 | X | 15 | | | | | | |
| 17 | 19702 | X | 15 | | | | | | |
| 18 | 19703 | X | 15 | | | | | | |
| 19 | 19704 | X | 10 | | | | | | |
| 20 | 19705 | X | X | | | | | | |
| 21 | 19706 | X | 5 | | | | | | |
| 22 | 19707 | X | 15 | | | | | | |
| 23 | 19708 | X | 10 | | | | | | |
| 24 | 19709 | X | 10 | | | | | | |
| 25 | 19710 | X | 35 | | | | | | |

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

- = element not determined

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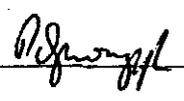
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|--------|------------|--------------|----|------|-----|---------|-----|---------|-----|--------|--|
| BE No. | SAMPLE No. | Cu | Pb | Zn | Ag | Fe | Cr | Ni | As | | |
| 1 | TS 19715 | 125 | 10 | 130 | X | 8.00% | 59 | 134 | 10 | | |
| 2 | TS 19716 | 130 | 10 | 55 | X | 10.5% | 110 | 50 | 1 | | |
| 3 | TS 19717 | 125 | 5 | 100 | X | 11.5% | 45 | 69 | 14 | | |
| 4 | TS 19718 | 140 | X | 130 | X | 10.0% | 32 | 64 | X | | |
| 5 | TS 19719 | 105 | X | 65 | X | 6.40% | 46 | 43 | 19 | | |
| 6 | TS 19720 | 125 | 5 | 145 | X | 8.85% | 103 | 82 | 2 | | |
| 7 | TS 19721 | 130 | 10 | 150 | X | 7.70% | 105 | 72 | 18 | | |
| 8 | TS 19722 | 120 | 10 | 250 | X | 13.0% | 26 | 116 | 1 | | |
| 9 | TS 19723 | 195 | 10 | 110 | X | 9.65% | 47 | 73 | 3 | | |
| 10 | TS 19724 | 220 | X | 160 | X | 8.00% | 8 | 63 | X | | |
| 11 | TS 19725 | 60 | 10 | 110 | X | 5.10% | 26 | 52 | 2 | | |
| 12 | TS 19726 | 60 | 5 | 35 | 0.5 | 1.65% | 37 | 70 | 16 | | |
| 13 | TS 19727 | 255 | 15 | 210 | X | 10.5% | 17 | 68 | 12 | | |
| 14 | TS 19728 | 80 | 10 | 95 | 0.5 | 4.70% | 65 | 135 | 26 | | |
| 15 | TS 19729 | 25 | 10 | 40 | X | 1.25% | 32 | 30 | 27 | | |
| 16 | TS 19730 | 80 | 15 | 135 | X | 12.5% | 36 | 91 | 40 | | |
| 17 | TS 19731 | 215 | 10 | 85 | X | 6.80% | 28 | 96 | 27 | | |
| 18 | TS 19732 | 15 | 10 | 35 | X | 3000 | 22 | 38 | 13 | | |
| 19 | TS 19733 | 560 | 30 | 170 | X | 2.60% | 34 | 92 | 23 | | |
| 20 | TS 19734 | 295 | 55 | 170 | X | 3.10% | 22 | 71 | 11 | | |
| 21 | TS 19735 | 345 | 20 | 525 | X | 1.25% | 53 | 198 | 40 | | |
| 22 | TS 19736 | 95 | 20 | 115 | X | 6.10% | 21 | 72 | 43 | | |
| 23 | TS 19737 | 95 | 35 | 125 | X | 8.75% | 48 | 125 | 95 | | |
| 24 | TS 19738 | 1400 | 10 | 1000 | X | 1.35% | 47 | 510 | 490 | | |
| 25 | TS 19739 | 25 | 5 | 185 | X | 1.60% | 100 | 81 | 45 | | |

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
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|--------|------------|--------------|----|-----|-----|---------|-----|---------|-----|-------------------|--|
| BE No. | SAMPLE No. | Cu | Pb | Zn | Ag | Fe | Cr | Ni | As | | |
| 1 | TS 19740 | 15 | 10 | 30 | X | 4450 | 55 | 31 | 18 | | |
| 2 | TS 19741 | 10 | 10 | 15 | 0.5 | 4400 | 89 | 51 | 15 | | |
| 3 | TS 19742 | 785 | 40 | 430 | X | 2.00% | 39 | 230 | 12 | | |
| 4 | TS 19743 | 20 | 15 | 40 | X | 2.20% | 133 | 87 | 15 | | |
| 5 | TS 19744 | 15 | X | 45 | 0.5 | 6.85% | 102 | 96 | 43 | | |
| 6 | TS 19745 | 15 | 5 | 25 | 0.5 | 1.00% | 390 | 171 | 12 | | |
| 7 | TS 19746 | 10 | 25 | 40 | X | 1.50% | 30 | 62 | 63 | | |
| 8 | TS 19747 | 30 | 30 | 130 | 0.5 | 9.70% | 48 | 350 | 110 | | |
| 9 | TS 19748 | 65 | 25 | 70 | X | 3.95% | 61 | 117 | 10 | | |
| 10 | TS 19749 | 120 | 45 | 140 | 0.5 | 3.25% | 50 | 165 | 7 | | |
| 11 | TS 19750 | 110 | 10 | 165 | X | 5.75% | 62 | 250 | X | | |
| 12 | TS 19751 | 65 | 15 | 135 | X | 5.45% | 280 | 167 | 6 | | |
| 13 | TS 19752 | 100 | 20 | 145 | X | 6.50% | 390 | 131 | 7 | | |
| 14 | TS 19753 | 110 | 25 | 100 | X | 5.70% | 128 | 82 | 7 | | |
| 15 | TS 19754 | 85 | 15 | 95 | X | 6.35% | 300 | 94 | 8 | | |
| 16 | TS 19755 | 125 | 20 | 120 | X | 4.80% | 41 | 106 | 4 | | |
| 17 | TS 19756 | 85 | 30 | 75 | X | 4.60% | 39 | 58 | X | | |
| 18 | TS 19757 | 80 | 30 | 125 | X | 4.95% | 137 | 114 | 5 | | |
| 19 | TS 19758 | 85 | 30 | 110 | X | 4.65% | 47 | 93 | 2 | | |
| 20 | TS 19759 | 70 | 30 | 65 | X | 5.20% | 79 | 45 | 15 | | |
| 21 | TS 19760 | 55 | 25 | 40 | X | 4.65% | 37 | 32 | 12 | | |
| 22 | TS 19761 | 40 | 20 | 35 | X | 3.25% | 86 | 50 | 3 | | |
| 23 | TS 19762 | 115 | 15 | 335 | 0.5 | 2.00% | 140 | 450 | 27 | | |
| 24 | TS 19763 | 90 | 20 | 195 | X | 9.05% | 133 | 440 | 12 | | |
| 25 | TS 19764 | 85 | 20 | 85 | X | 4.80% | 45 | 80 | 2 | | |

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

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044

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ANALYTICAL DATA

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REPORT NUMBER

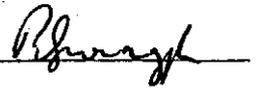
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|------------|------------|--------------|----|-----|-----|---------|-----|---------|----|-------------------|--|
| SAMPLE No. | SAMPLE No. | Cu | Pb | Zn | Pg | Fe | Cr | Ni | As | | |
| 1 | TS 19765 | 110 | 30 | 45 | X | 7.30% | 43 | 58 | 10 | | |
| 2 | TS 19766 | 35 | 30 | 30 | X | 3.30% | 35 | 51 | 3 | | |
| 3 | TS 19767 | 45 | 20 | 30 | X | 1.05% | 68 | 92 | 12 | | |
| 4 | TS 19768 | 50 | 25 | 100 | 0.5 | 3.05% | 200 | 140 | 2 | | |
| 5 | TS 19769 | 50 | 55 | 125 | X | 3.85% | 94 | 135 | 2 | | |
| 6 | TS 19770 | 35 | 20 | 75 | 0.5 | 2.15% | 40 | 129 | 3 | | |
| 7 | TS 19771 | 65 | 20 | 85 | X | 1.75% | 48 | 146 | 1 | | |
| 8 | TS 19772 | 20 | 25 | 115 | 0.5 | 1.20% | 138 | 80 | 29 | | |
| 9 | TS 19773 | 5 | 10 | 25 | X | 9800 | 270 | 72 | 11 | | |
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Results in ppm unless otherwise specified
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| | | 83.1 08 1517 | | | | 8.10.82 | | KP 2911 | | 5 ^{OF} 8 | |
|----------|------------|--------------|-----|----|--|---------|--|---------|--|-------------------|--|
| LINE No. | SAMPLE No. | Ba | Sn | W | | | | | | | |
| 1 | TS 19715 | 55 | 86 | 4 | | | | | | | |
| 2 | TS 19716 | 25 | 22 | 8 | | | | | | | |
| 3 | TS 19717 | 20 | 27 | X | | | | | | | |
| 4 | TS 19718 | 20 | 150 | X | | | | | | | |
| 5 | TS 19719 | 20 | 8 | X | | | | | | | |
| 6 | TS 19720 | 110 | 20 | X | | | | | | | |
| 7 | TS 19721 | 85 | 5 | X | | | | | | | |
| 8 | TS 19722 | 140 | 15 | 10 | | | | | | | |
| 9 | TS 19723 | 50 | 5 | X | | | | | | | |
| 10 | TS 19724 | 130 | 90 | X | | | | | | | |
| 11 | TS 19725 | 25 | 5 | X | | | | | | | |
| 12 | TS 19726 | 100 | 8 | X | | | | | | | |
| 13 | TS 19727 | 120 | 17 | X | | | | | | | |
| 14 | TS 19728 | 75 | X | X | | | | | | | |
| 15 | TS 19729 | 410 | 14 | X | | | | | | | |
| 16 | TS 19730 | 395 | X | 23 | | | | | | | |
| 17 | TS 19731 | 475 | X | X | | | | | | | |
| 18 | TS 19732 | X | X | X | | | | | | | |
| 19 | TS 19733 | 315 | X | X | | | | | | | |
| 20 | TS 19734 | 590 | X | X | | | | | | | |
| 21 | TS 19735 | 115 | X | X | | | | | | | |
| 22 | TS 19736 | 245 | X | X | | | | | | | |
| 23 | TS 19737 | 235 | X | X | | | | | | | |
| 24 | TS 19738 | 145 | X | 11 | | | | | | | |
| 25 | TS 19739 | 45 | X | X | | | | | | | |

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 - = element not determined

AUTHORISED OFFICER

Allyson L.

046

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600047

ANALYTICAL DATA

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| | | 83.1 08 1517 | | | 8.10.82 | KP 2911 | | | 6 ^{OF} 8 | |
| No. | SAMPLE No. | Ba | Sn | W | | | | | | |
| 1 | TS 19740 | X | X | 10 | | | | | | |
| 2 | TS 19741 | 5 | X | X | | | | | | |
| 3 | TS 19742 | 120 | X | X | | | | | | |
| 4 | TS 19743 | 10 | X | X | | | | | | |
| 5 | TS 19744 | 35 | X | X | | | | | | |
| 6 | TS 19745 | 25 | X | X | | | | | | |
| 7 | TS 19746 | 10 | X | X | | | | | | |
| 8 | TS 19747 | 175 | X | X | | | | | | |
| 9 | TS 19748 | 640 | X | X | | | | | | |
| 10 | TS 19749 | 235 | X | X | | | | | | |
| 11 | TS 19750 | 250 | 6 | X | | | | | | |
| 12 | TS 19751 | 95 | X | X | | | | | | |
| 13 | TS 19752 | 50 | X | 4 | | | | | | |
| 14 | TS 19753 | 100 | X | X | | | | | | |
| 15 | TS 19754 | 55 | X | X | | | | | | |
| 16 | TS 19755 | 105 | X | X | | | | | | |
| 17 | TS 19756 | 115 | X | X | | | | | | |
| 18 | TS 19757 | 110 | X | X | | | | | | |
| 19 | TS 19758 | 105 | X | X | | | | | | |
| 20 | TS 19759 | 70 | X | X | | | | | | |
| 21 | TS 19760 | 100 | X | X | | | | | | |
| 22 | TS 19761 | 100 | X | X | | | | | | |
| 23 | TS 19762 | 3000 | X | 4 | | | | | | |
| 24 | TS 19763 | 1750 | X | 4 | | | | | | |
| 25 | TS 19764 | 120 | X | X | | | | | | |

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R. [Signature]

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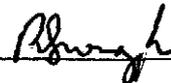
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| | | | 83.1 08 1517 | | | 8.10.82 | | KP 2911 | | 7 ^{OF} 8 | |
|--------|------------|--|--------------|----|---|---------|--|---------|--|-------------------|--|
| BE No. | SAMPLE No. | | Ba | Sn | W | | | | | | |
| 1 | TS 19765 | | 80 | X | X | | | | | | |
| 2 | TS 19766 | | 120 | X | X | | | | | | |
| 3 | TS 19767 | | 140 | X | X | | | | | | |
| 4 | TS 19768 | | 90 | X | X | | | | | | |
| 5 | TS 19769 | | 110 | X | 6 | | | | | | |
| 6 | TS 19770 | | 105 | X | X | | | | | | |
| 7 | TS 19771 | | 70 | X | X | | | | | | |
| 8 | TS 19772 | | 165 | X | X | | | | | | |
| 9 | TS 19773 | | 35 | X | X | | | | | | |
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Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
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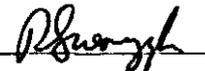
PAGE

| TS | | 83.1 08 1539 | | | | 25.10.82 | | KP 2913 | | 1 of 8 | |
|--------|------------|--------------|----|-----|-----|----------|-----|---------|----|--------|--|
| BE No. | SAMPLE No. | Cu | Pb | Zn | Pg | Fe | Cr | Ni | As | Ba | |
| 1 | 19774 | 10 | X | 40 | 1.5 | 7750 | 174 | 43 | 9 | 55 | |
| 2 | 19775 | 5 | 20 | 20 | X | 3400 | 42 | 28 | 3 | 10 | |
| 3 | 19776 | 5 | 5 | 25 | X | 1.15% | 210 | 40 | 9 | 20 | |
| 4 | 19777 | 10 | 15 | 30 | X | 7900 | 115 | 53 | 7 | 20 | |
| 5 | 19778 | 10 | 5 | 30 | X | 1.00% | 176 | 45 | 6 | 25 | |
| 6 | 19779 | X | X | 15 | X | 9000 | 350 | 56 | 14 | 20 | |
| 7 | 19780 | X | X | 15 | X | 5350 | 380 | 24 | 6 | 10 | |
| 8 | 19781 | 5 | 5 | 15 | X | 4650 | 169 | 73 | 7 | 5 | |
| 9 | 19782 | X | X | 15 | X | 6450 | 710 | 30 | 11 | 15 | |
| 10 | 19783 | X | X | 35 | X | 1.00% | 250 | 65 | 11 | 35 | |
| 11 | 19784 | 10 | X | 45 | X | 1.30% | 290 | 130 | 23 | 50 | |
| 12 | 19785 | 30 | 25 | 105 | X | 1.75% | 62 | 140 | 17 | 115 | |
| 13 | 19786 | 10 | 10 | 20 | X | 7100 | 100 | 52 | 6 | 5 | |
| 14 | 19787 | 15 | 15 | 55 | X | 1.35% | 162 | 126 | 30 | 10 | |
| 15 | 19788 | 10 | 5 | 40 | X | 1.30% | 198 | 53 | 21 | 10 | |
| 6 | 19789 | 100 | 10 | 140 | X | 6.00% | 220 | 310 | 44 | 40 | |
| 17 | 19790 | 45 | 15 | 220 | X | 8.50% | 124 | 520 | 76 | 125 | |
| 18 | 19791 | 50 | 5 | 110 | X | 4.00% | 80 | 118 | X | 90 | |
| 19 | 19792 | 50 | 5 | 55 | X | 1.70% | 220 | 170 | X | 300 | |
| 20 | 19793 | 45 | 5 | 30 | X | 1.40% | 111 | 148 | X | 120 | |
| 21 | 19794 | 25 | 5 | 20 | X | 1.20% | 99 | 161 | X | 115 | |
| 22 | 19795 | 40 | X | 40 | X | 1.05% | 178 | 176 | 3 | 90 | |
| 23 | 19796 | 40 | 10 | 30 | X | 8100 | 112 | 66 | X | 75 | |
| 24 | 19797 | 25 | X | 45 | 1.0 | 1.60% | 176 | 166 | X | 75 | |
| 25 | 19798 | 35 | X | 65 | X | 2.10% | 104 | 181 | 3 | 135 | |

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure
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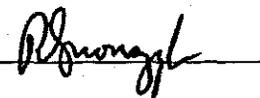
| TS | | 83.1 08 1539 | | | | 25.10.82 | | KP 2913 | | 2 OF 8 | |
|--------|------------|--------------|----|-----|-----|----------|-----|---------|----|--------|--|
| BE No. | SAMPLE No. | Cu | Pb | Zn | Ag | Fe | Cr | Ni | As | Ba | |
| 1 | 19799 | 70 | 10 | 60 | 0.5 | 1.65% | 66 | 103 | 2 | 145 | |
| 2 | 19800 | 95 | X | 35 | X | 1.40% | 64 | 100 | X | 115 | |
| 3 | 19801 | 35 | X | 15 | X | 1.00% | 185 | 119 | X | 60 | |
| 4 | 19802 | 10 | X | 15 | X | 5400 | 370 | 137 | X | 60 | |
| 5 | 19803 | 25 | X | 25 | X | 1.05% | 147 | 144 | X | 75 | |
| 6 | 19804 | 40 | X | 35 | X | 1.30% | 150 | 137 | X | 115 | |
| 7 | 19805 | 40 | 5 | 45 | X | 3.45% | 145 | 140 | 2 | 140 | |
| 8 | 19806 | 35 | 10 | 30 | 0.5 | 3.05% | 90 | 88 | 5 | 245 | |
| 9 | 19807 | 55 | 5 | 50 | 0.5 | 7.50% | 78 | 35 | 14 | 380 | |
| 10 | 19808 | 75 | 5 | 85 | 0.5 | 2.80% | 270 | 132 | 12 | 160 | |
| 11 | 19809 | 10 | 10 | 65 | X | 2.55% | 210 | 101 | 2 | 140 | |
| 12 | 19810 | 70 | 10 | 110 | X | 3.45% | 85 | 150 | X | 95 | |
| 13 | 19811 | 25 | 15 | 70 | X | 1.85% | 250 | 138 | 12 | 75 | |
| 14 | 19812 | 50 | 15 | 110 | X | 3.85% | 290 | 240 | 5 | 60 | |
| 15 | 19813 | 20 | 15 | 120 | X | 4.55% | 107 | 144 | 2 | 110 | |
| 16 | 19814 | 70 | 15 | 110 | X | 4.30% | 67 | 181 | 6 | 120 | |
| 17 | 19815 | 60 | 5 | 85 | X | 2.65% | 340 | 118 | 4 | 105 | |
| 18 | 19816 | 45 | 5 | 90 | X | 3.15% | 72 | 107 | 4 | 90 | |
| 19 | 19817 | 20 | X | 40 | X | 1.40% | 73 | 41 | 3 | 75 | |
| 20 | 19818 | 75 | 5 | 85 | X | 3.05% | 93 | 134 | X | 130 | |
| 21 | 19819 | 105 | 45 | 110 | X | 4.00% | 42 | 149 | 8 | 470 | |
| 22 | 19820 | 60 | 15 | 60 | X | 6450 | 34 | 43 | 10 | 1120 | |
| 23 | 19821 | 95 | 45 | 100 | X | 3.25% | 63 | 133 | 17 | 320 | |
| 24 | 19822 | 80 | 30 | 50 | X | 1.00% | 39 | 103 | 30 | 585 | |
| 25 | 19823 | 50 | 10 | 110 | X | 3.25% | 125 | 119 | 12 | 315 | |

Results in ppm unless otherwise specified

T = element present; but concentration too low to measure

X = element concentration is below detection limit

— = element not determined

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|--------|------------|--------------|----|-----|-----|----------|-----|---------|----|--------|--|
| SE No. | SAMPLE No. | Cu | Pb | Zn | Ag | Fe | Cr | Ni | As | Ba | |
| 1 | 19824 | 55 | 10 | 90 | X | 2.50% | 67 | 77 | 8 | 220 | |
| 2 | 19825 | 70 | 20 | 85 | X | 1.95% | 32 | 119 | 5 | 230 | |
| 3 | 19826 | 70 | 25 | 145 | X | 3.05% | 33 | 180 | 24 | 455 | |
| 4 | 19827 | 50 | 30 | 340 | 0.5 | 3.65% | 37 | 250 | 11 | 230 | |
| 5 | 19828 | 20 | 15 | 165 | X | 1.15% | 90 | 165 | 22 | 100 | |
| 6 | 19829 | 5 | 10 | 25 | X | 5600 | 340 | 82 | 4 | 5 | |
| 7 | 19830 | 15 | 10 | 85 | X | 6250 | 145 | 69 | 32 | 50 | |
| 8 | 19831 | 5 | X | 20 | X | 5750 | 95 | 47 | X | 20 | |
| 9 | 19832 | 10 | 10 | 60 | X | 1.00% | 220 | 122 | 9 | 60 | |
| 10 | 19833 | 10 | 20 | 35 | X | 9600 | 63 | 47 | 21 | 20 | |
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Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
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051

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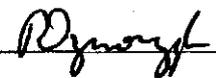
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|--------|--------------|----|----|----------|--|---------|--|--------|--|
| SE No. | SAMPLE No. | Sn | W | | | | | | |
| 1 | 19774 | X | 15 | | | | | | |
| 2 | 19775 | X | X | | | | | | |
| 3 | 19776 | X | 6 | | | | | | |
| 4 | 19777 | X | X | | | | | | |
| 5 | 19778 | X | X | | | | | | |
| 6 | 19779 | X | X | | | | | | |
| 7 | 19780 | X | X | | | | | | |
| 8 | 19781 | X | 4 | | | | | | |
| 9 | 19782 | X | X | | | | | | |
| 10 | 19783 | X | X | | | | | | |
| 11 | 19784 | X | X | | | | | | |
| 12 | 19785 | X | X | | | | | | |
| 13 | 19786 | X | 4 | | | | | | |
| 14 | 19787 | X | X | | | | | | |
| 15 | 19788 | X | X | | | | | | |
| 16 | 19789 | X | 7 | | | | | | |
| 17 | 19790 | X | X | | | | | | |
| 18 | 19791 | X | X | | | | | | |
| 19 | 19792 | X | X | | | | | | |
| 20 | 19793 | 4 | X | | | | | | |
| 21 | 19794 | X | 8 | | | | | | |
| 22 | 19795 | X | 6 | | | | | | |
| 23 | 19796 | X | 5 | | | | | | |
| 24 | 19797 | X | X | | | | | | |
| 25 | 19798 | X | X | | | | | | |

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
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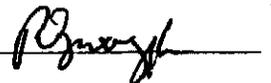
| TS | | | | 83.1 08 1539 | | | | 25.10.82 | | KP 2913 | | 6 OF 8 | |
|--------|------------|----|---|--------------|--|--|--|----------|--|---------|--|--------|--|
| SE No. | SAMPLE No. | Sn | W | | | | | | | | | | |
| 1 | 19799 | X | 7 | | | | | | | | | | |
| 2 | 19800 | X | X | | | | | | | | | | |
| 3 | 19801 | X | X | | | | | | | | | | |
| 4 | 19802 | X | 6 | | | | | | | | | | |
| 5 | 19803 | X | X | | | | | | | | | | |
| 6 | 19804 | X | X | | | | | | | | | | |
| 7 | 19805 | 7 | X | | | | | | | | | | |
| 8 | 19806 | X | X | | | | | | | | | | |
| 9 | 19807 | X | X | | | | | | | | | | |
| 10 | 19808 | X | X | | | | | | | | | | |
| 11 | 19809 | X | X | | | | | | | | | | |
| 12 | 19810 | X | 6 | | | | | | | | | | |
| 13 | 19811 | X | X | | | | | | | | | | |
| 14 | 19812 | X | X | | | | | | | | | | |
| 15 | 19813 | X | X | | | | | | | | | | |
| 16 | 19814 | X | X | | | | | | | | | | |
| 17 | 19815 | 4 | X | | | | | | | | | | |
| 18 | 19816 | X | 5 | | | | | | | | | | |
| 19 | 19817 | X | X | | | | | | | | | | |
| 20 | 19818 | X | X | | | | | | | | | | |
| 21 | 19819 | X | X | | | | | | | | | | |
| 22 | 19820 | X | X | | | | | | | | | | |
| 23 | 19821 | X | X | | | | | | | | | | |
| 24 | 19822 | X | X | | | | | | | | | | |
| 25 | 19823 | X | X | | | | | | | | | | |

Results in ppm unless otherwise specified

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ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

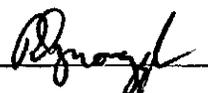
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| BE No. | SAMPLE No. | Sn | W | | | | | | | |
| 1 | 19824 | X | X | | | | | | | |
| 2 | 19825 | X | X | | | | | | | |
| 3 | 19826 | 4 | X | | | | | | | |
| 4 | 19827 | X | 6 | | | | | | | |
| 5 | 19828 | X | X | | | | | | | |
| 6 | 19829 | X | X | | | | | | | |
| 7 | 19830 | X | 6 | | | | | | | |
| 8 | 19831 | X | X | | | | | | | |
| 9 | 19832 | 6 | X | | | | | | | |
| 10 | 19833 | X | 6 | | | | | | | |
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ANALYTICAL DATA

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REPORT NUMBER

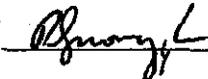
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| TS | | 83.1 08 1559 | | | | 25.10.82 | | KP 2914 | | 1 OF 4 | |
|--------|------------|--------------|----|-----|-----|----------|-----|---------|----|--------|--|
| SE No. | SAMPLE No. | Cu | Pb | Zn | Ag | Fe | Cr | Ni | As | Ba | |
| 1 | 19834 | 30 | 10 | 65 | X | 2.80% | 99 | 101 | 18 | 30 | |
| 2 | 19835 | 25 | 5 | 70 | 1.0 | 2.80% | 170 | 78 | 6 | 40 | |
| 3 | 19836 | 20 | 10 | 60 | 0.5 | 1.20% | 270 | 26 | 20 | 20 | |
| 4 | 19837 | 90 | 30 | 125 | X | 7.75% | 66 | 190 | 5 | 135 | |
| 5 | 19838 | 20 | 5 | 25 | X | 8500 | 380 | 117 | 4 | 30 | |
| 6 | 19839 | 20 | 10 | 70 | 0.5 | 6100 | 230 | 122 | 12 | 80 | |
| 7 | 19840 | 15 | 15 | 25 | 3.0 | 6600 | 178 | 73 | 5 | 5 | |
| 8 | 19841 | 15 | 10 | 50 | X | 1.90% | 184 | 90 | 13 | 40 | |
| 9 | 19842 | 55 | 55 | 140 | X | 6.70% | 22 | 86 | 10 | 35 | |
| 10 | 19843 | 20 | 20 | 30 | 0.5 | 8000 | 38 | 31 | X | 5 | |
| 11 | 19844 | 15 | 10 | 25 | X | 5200 | 410 | 51 | 5 | 10 | |
| 12 | 19845 | 15 | 15 | 30 | X | 1.40% | 141 | 28 | 6 | 5 | |
| 13 | | | | | | | | | | | |
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600056

ANALYTICAL DATA

SAMPLE PREFIX

REPORT NUMBER

REPORT DATE

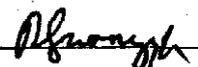
CLIENT ORDER No.

PAGE

| TS | | | 83.1 08 1559 | | | 25.10.82 | | KP 2914 | | 3 OF 4 | |
|----------|------------|----|--------------|--|--|----------|--|---------|--|--------|--|
| LINE No. | SAMPLE No. | Sn | W | | | | | | | | |
| 1 | 19834 | X | X | | | | | | | | |
| 2 | 19835 | X | X | | | | | | | | |
| 3 | 19836 | X | X | | | | | | | | |
| 4 | 19837 | X | 6 | | | | | | | | |
| 5 | 19838 | X | 10 | | | | | | | | |
| 6 | 19839 | X | 4 | | | | | | | | |
| 7 | 19840 | X | 32 | | | | | | | | |
| 8 | 19841 | X | 6 | | | | | | | | |
| 9 | 19842 | 4 | 4 | | | | | | | | |
| 10 | 19843 | X | 9 | | | | | | | | |
| 11 | 19844 | X | 6 | | | | | | | | |
| 12 | 19845 | X | 6 | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |
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| 23 | | | | | | | | | | | |
| 24 | | | | | | | | | | | |
| 25 | | | | | | | | | | | |

Results in ppm unless otherwise specified
 T = element present; but concentration too low to measure
 X = element concentration is below detection limit
 — = element not determined

AUTHORISED OFFICER



056

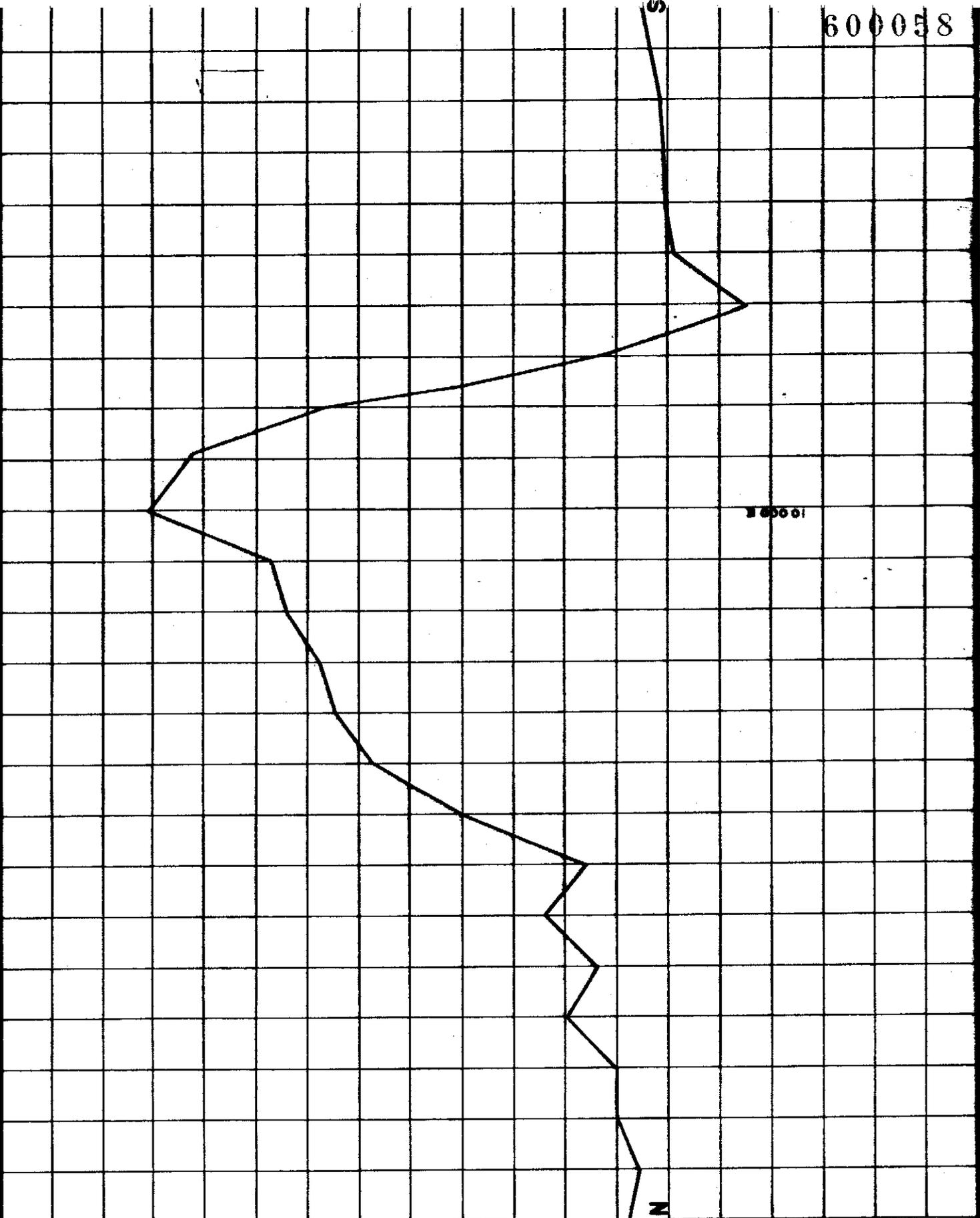
600057

APPENDIX 2

GROUND MAGNETIC PROFILES

057

600058

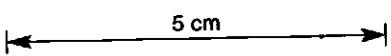


63000

N



1 cm = 200nT
 1:2500
 Readings at 25m centres
 Unimag. used



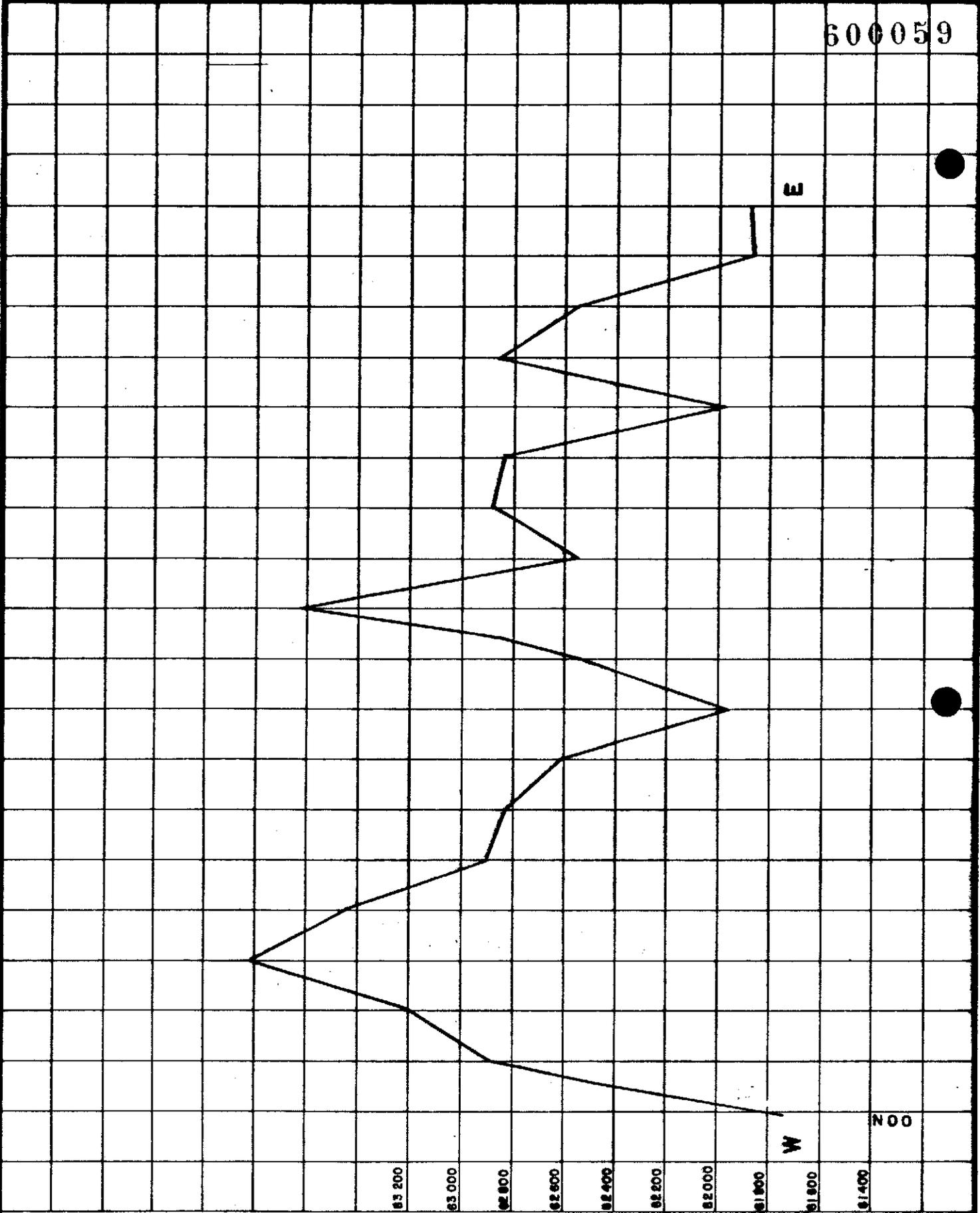

 DATE 28/7/82
 GEOL J.P.
 DWN W.J.S.
 CNKD

GEOPEKO
 A DIVISION OF PEKO-WALLBEND OPERATIONS LTD

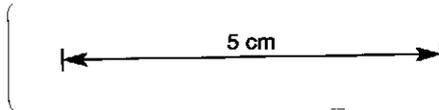
MONTAGU E.L. 25/80
GM ANOMALY

058

600059



1cm = 200nT
 1:2500
 Readings at 25m centres
 Unimag. used.



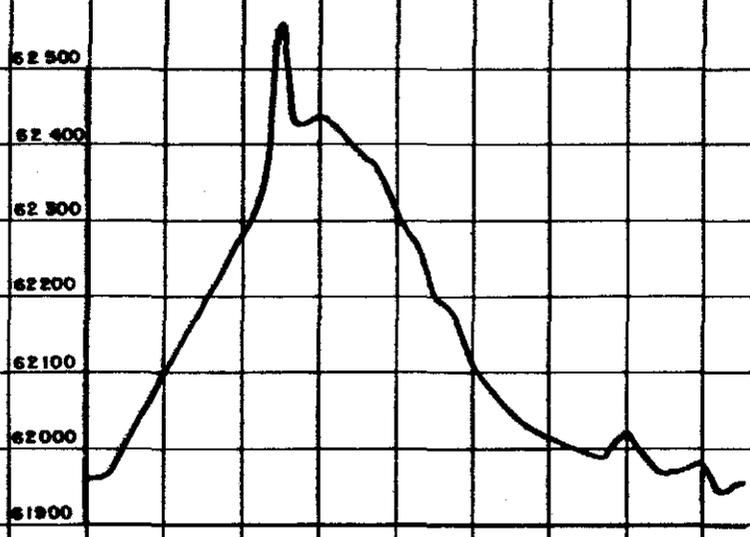

 DATE 20/7/82
 GEOL J.P.
 DWN M.W.S.
 CNKD

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 A DIVISION OF PEKO-WALLBEND OPERATIONS LTD

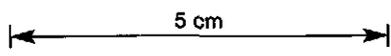
MONTAGU E.L. 25/80
GM ANOMALY

059

600060



1cm = 100nT
1: 5000



Readings at 12.5m centres.
GEOMETRICS 6816 used.
E - W TRAVERSE.



| |
|------------|
| |
| DATE 8/82 |
| GEOL J.P. |
| DWN M.R.S. |
| CNKD |

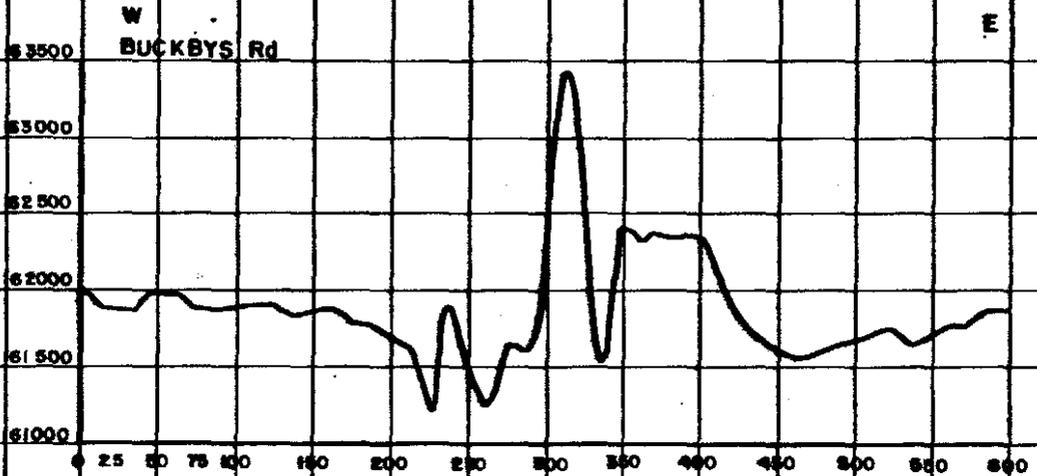
GEOPEKO

A DIVISION OF PEKO-WALLBEND OPERATIONS LTD

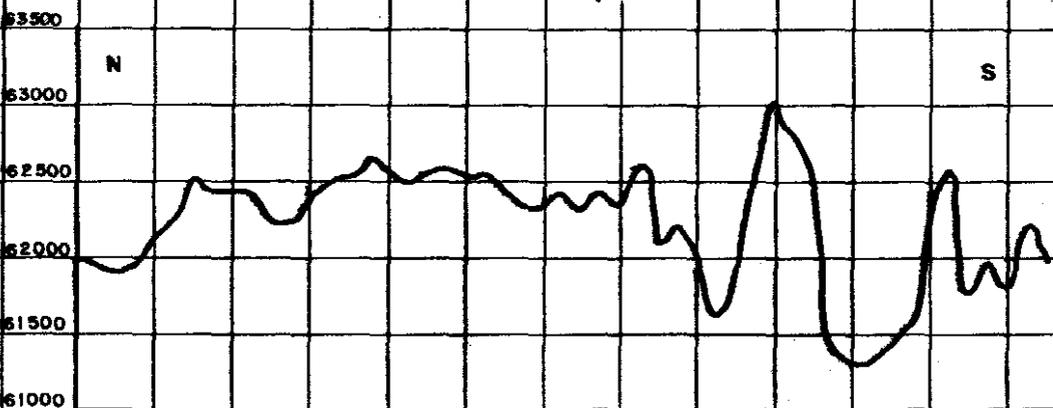
MONTAGU E.L. 25/80

FJ ANOMALY

060



N ← S
starting point

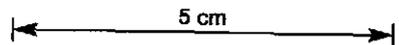


1cm = 500nT

1: 5000

Readings at 12.5m centres.

GEOMETRICS 6816 used.



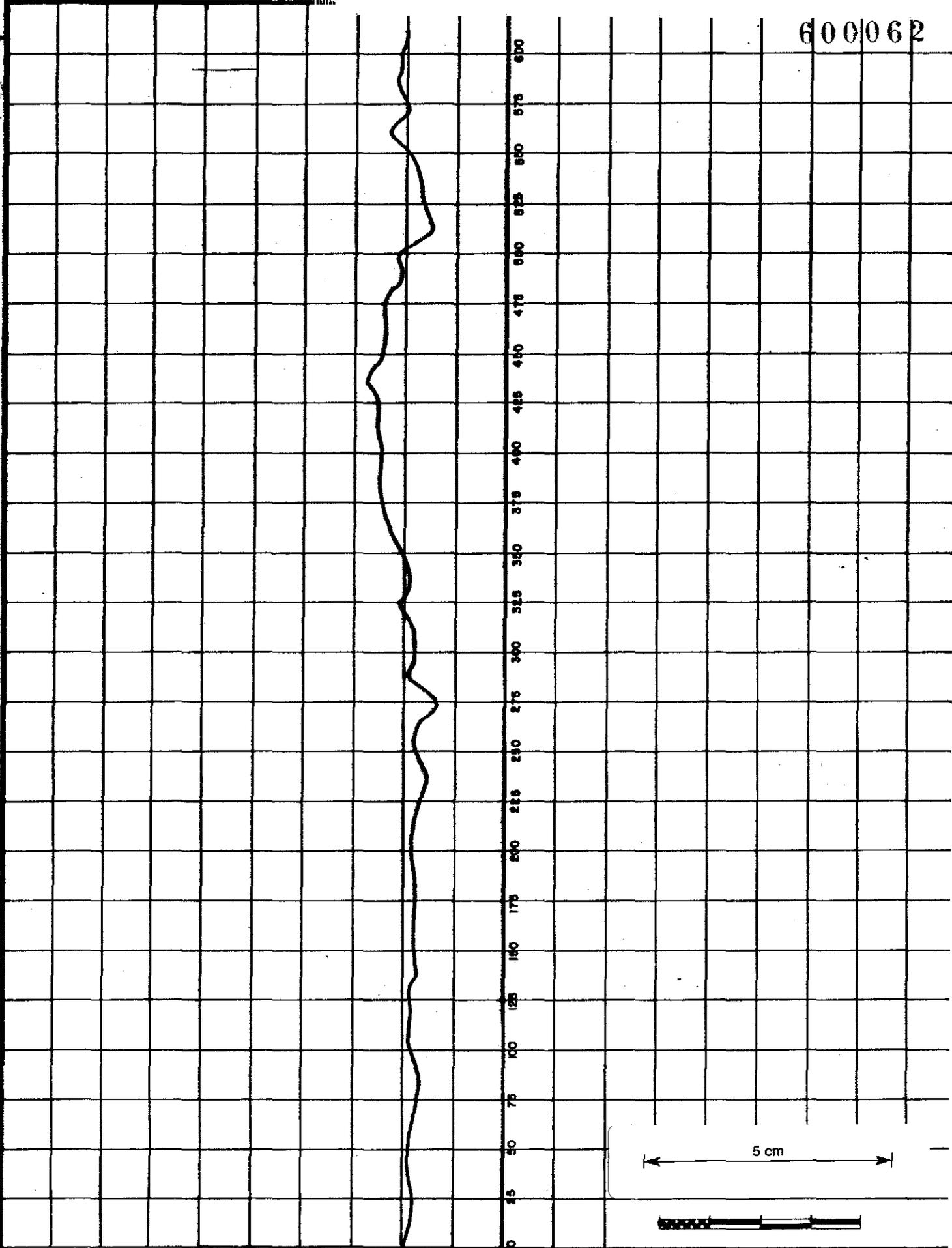
| |
|----------------|
| |
| DATE 28/10/80 |
| GEOLOGIST J.P. |
| DRAWN BY G.S. |
| CHECKED |

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

MONTAGU E.L. 25/80
NURSERY ANOMALY

061

600062



64000
63800
63600
62800
62000
61000

1cm = 500 nT
1:5000
Readings at 12.5m centres
GEOMETRICS 6B16 used
N-W TRAVERSE

DATE 27/10/82
GEOLOGIST J.P.
DWN M.V.S
CHKD

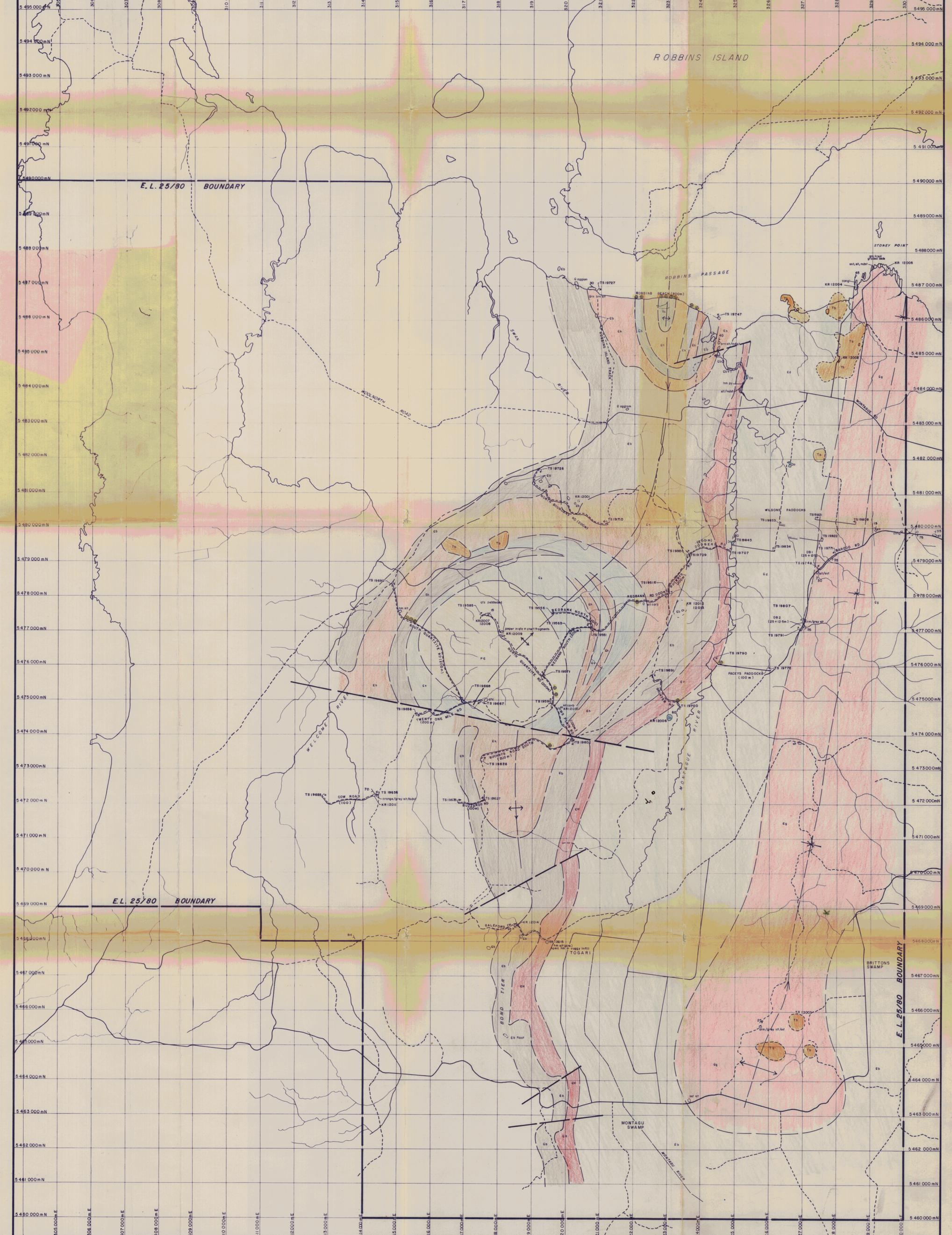
GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

MONTAGU E.L. 25/80
DOGWOOD DRIVE ANOMALY
(BOND TIER)

FIGURE 2

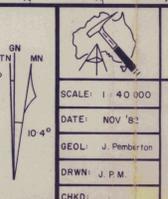
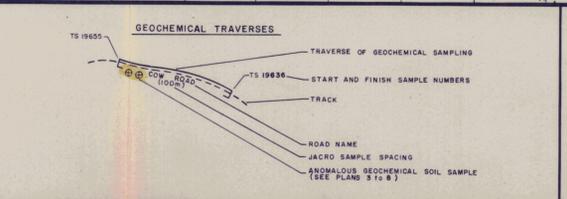
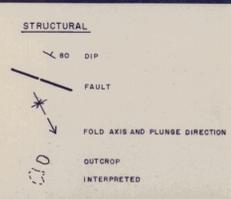
CONSISTS OF THE FOLLOWING PLANS

| <u>NAME OF TRAVERSE</u> | <u>PLAN NO</u> |
|---|----------------|
| REDBANK ROAD SOUTH NORTH QUARTZITE ROAD JIMS PLAIN ROAD | 3 |
| <hr/> | |
| BUCKBYS ROAD SOUTH BUZZARDS ROAD COW ROAD | 4 |
| <hr/> | |
| 21m1 ROAD SOUTH QUARTZITE ROAD | 5 |
| <hr/> | |
| PACEYS PADDOCK DB2 WILSONS | 6 |
| <hr/> | |
| ROBBINS BEACH DB1 MAJOR ANOMALY | 7 |
| <hr/> | |
| GRUNTER ROAD DODGERS ROAD NORTH BOUNDARY ROAD | 8 |
| <hr/> | |



LEGEND

| GEOLOGICAL INTERPRETATION | |
|---------------------------|--|
| TS | tertiary basalt |
| CB | conglomerate, greywacke, siltstone |
| CD | dolomite, shale, chert, tuff |
| CH | hematitic siltstone |
| CL | basaltic agglomerate, tuff |
| CS | hematitic siltstone |
| CR | silicified carbonate, chert, blackshale, siltstone |
| CP | quartzite and siltstone |
| PC | precambrian |



GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

PLAN 1
TS 25/80 - 2

E.L. 25/80 MONTAGUE, TASMANIA

GEOLOGY 600064
WITH
JACRO AUGER TRAVERSES

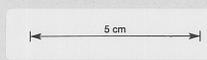
SCALE: 1:40 000
DATE: NOV '83
GEOLOGIST: J. Pemberton
DRAWN: J. P.M.
CHECKED: CHKD



LEGEND

| |
|----------|
| 305.000m |
| 306.000m |
| 307.000m |
| 308.000m |
| 309.000m |
| 310.000m |
| 311.000m |
| 312.000m |
| 313.000m |
| 314.000m |
| 315.000m |
| 316.000m |
| 317.000m |
| 318.000m |
| 319.000m |
| 320.000m |
| 321.000m |
| 322.000m |
| 323.000m |
| 324.000m |
| 325.000m |
| 326.000m |
| 327.000m |
| 328.000m |
| 329.000m |
| 330.000m |

590



GN
TN
15°
MN
10 4°

SCALE 1:40 000
DATE Mar 83
GEOLOGICAL J.P.
DRAWN M.v.J.S.
CHKD

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

PLAN 2
TS 25/80-3

EL 7183 8183 MONTAGUE, TASMANIA
AIRBORNE GEOPHYSICS
600065
TOP CENTRE
84 2148

MICROFILMED
FICHE No. 2

REDBANK Rd SOUTH (going south)

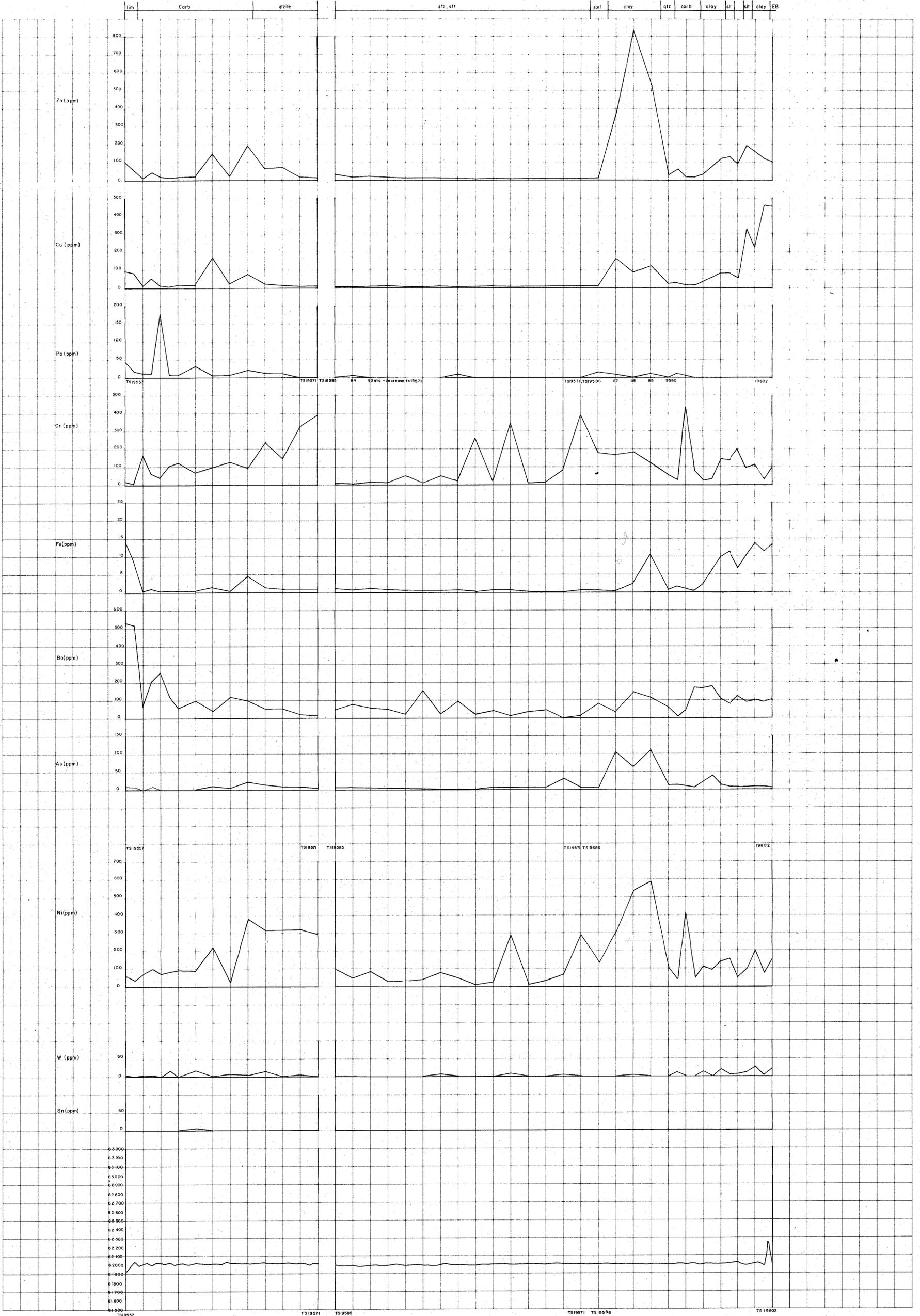
(West)

NORTH QTZITE Rd

(East)

JIMS PLAIN Rd

FILE NO: TS 25/80-4



600066

83-95s



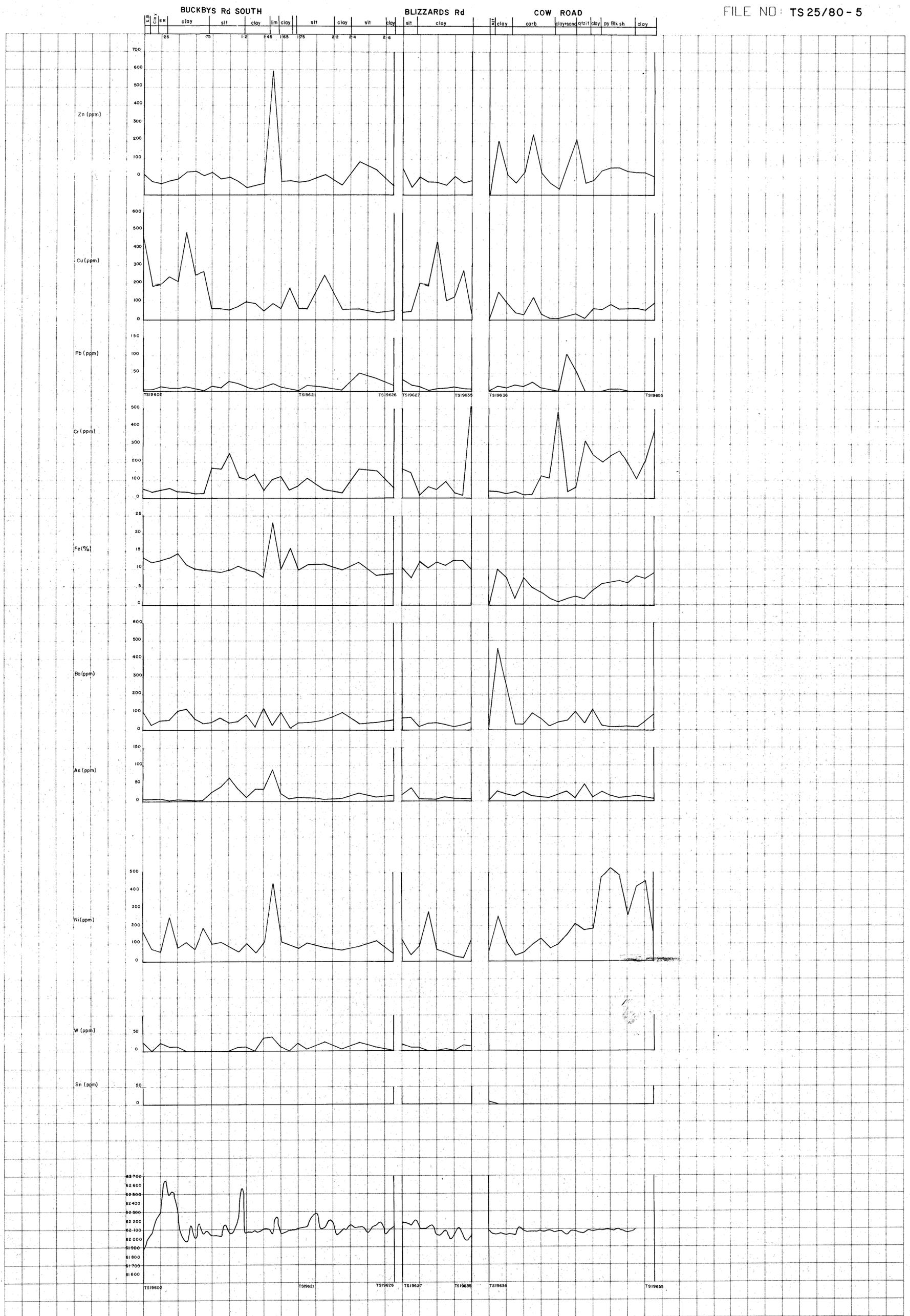
GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

Scale: Plan No: 3

DATE: Mar 83
GEO: J.S.
DRAWN: M.v.d.S.
CHECKED:

MONTAGU E.L. 25/80
JACRO SAMPLES
(REDBANK ROAD SOUTH & NORTH QTZITE ROAD)
& JIMS PLAIN ROAD

067



600067

83-1950



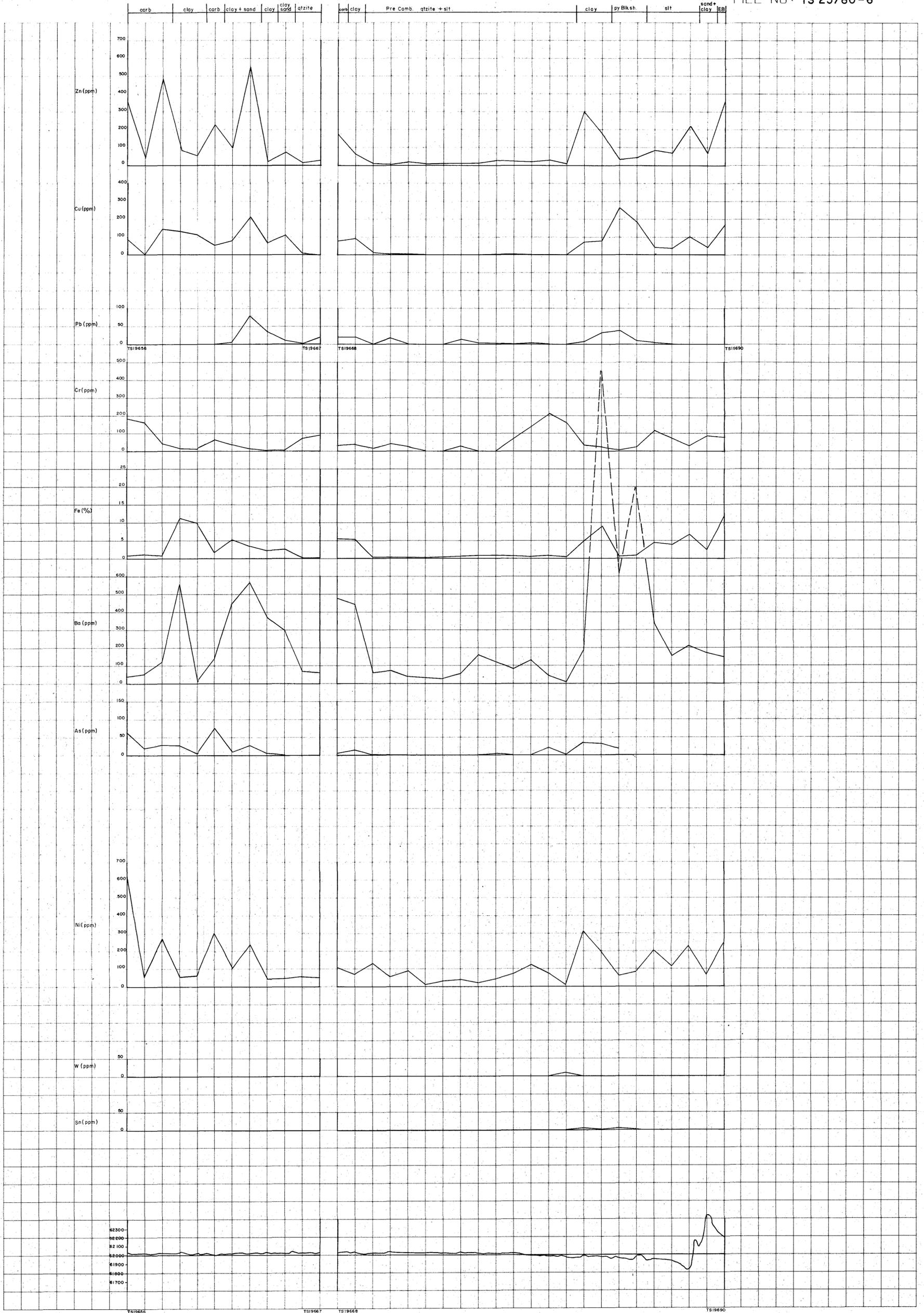
GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT

Scale: 1:10000 Plan No: 4

MONTAGU E.L. 25/80
JACRO SAMPLES

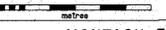
(BUCKBYS Rd SOUTH, BLIZZARDS Rd, COW Rd)

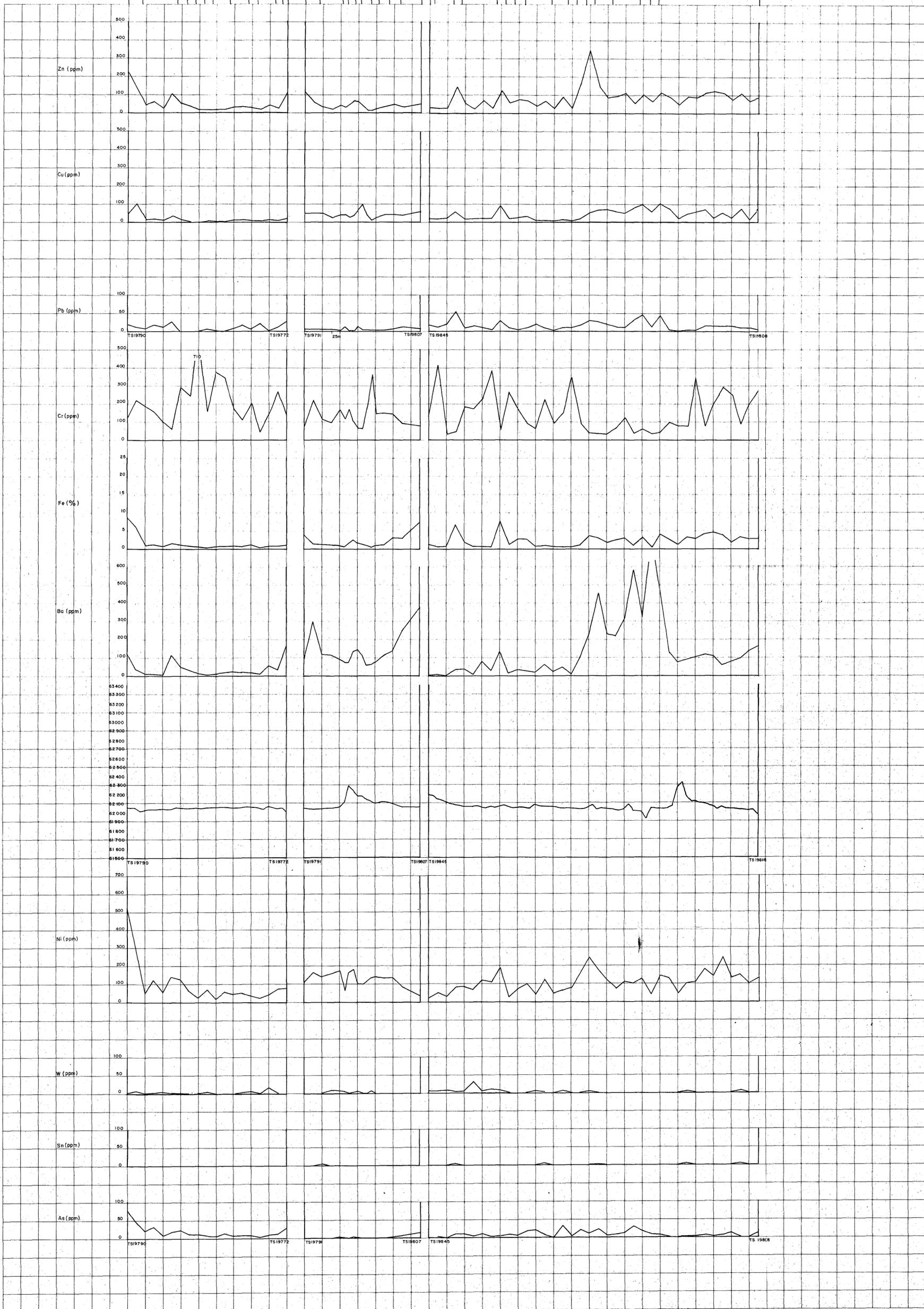
DATE: Feb 83
GEO: J.P.
DRAWN: M.vdB.
CHECKED:



600068

33-755

| | | |
|---|--|-------------------|
|  | GEOPEKO | |
| | A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT | |
| | Scale:  | Plan No: 5 |
| | MONTAGU E.L. 25/80 | |
| | JACRO SAMPLES (21mi ROAD, SOUTH QTZITE ROAD) | |
| DATE: Feb 83 | GEO: J.P. | |
| DRAWN: M.v.S. | CHECKED: | |



600069

83-1955



A DIVISION OF PEKO-WILSONS OPERATIONS LTD - DEVONPORT

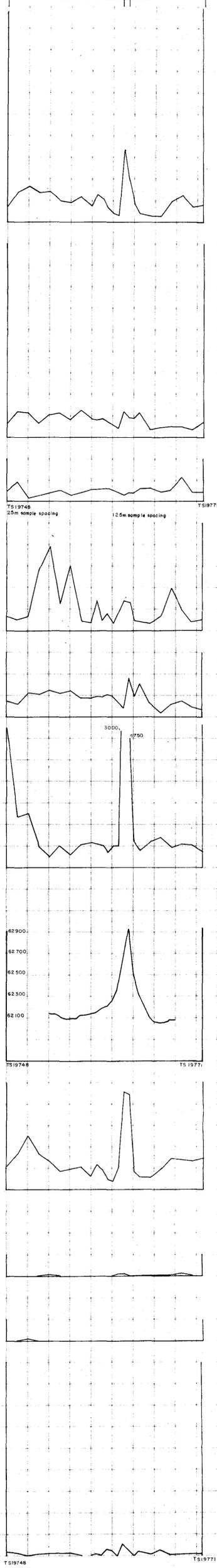
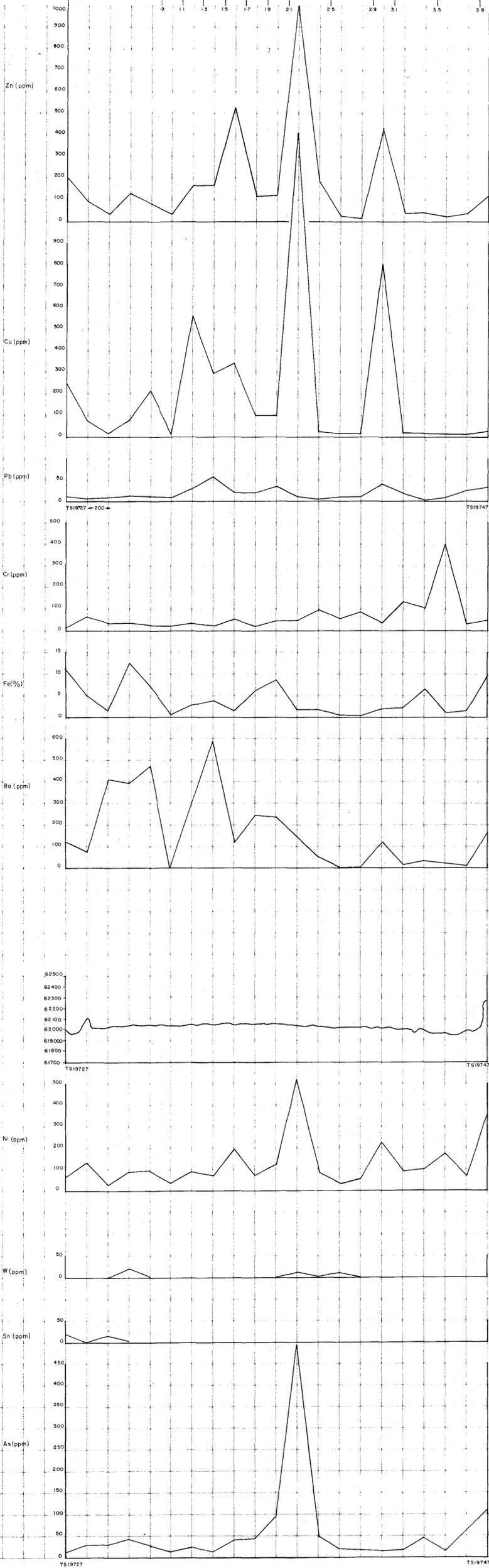
Scale: 1:10000 Plan No: 6

MONTAGU E.L. 25/80
JACRO SAMPLES
(PACEYS PADDOCK, DB2, WILSONS)

DATE: Feb 83
GEO: J.P.
DRAWN: M.vds.
CHECKED:

ROBBINS BEACH

DBI Maj.An.



600070 33-1950



GEPEKO
A DIVISION OF PEKO-WILLENBOND OPERATIONS LTD - DEVONPORT
Scale: 1:10000
Plan No: 7

MONTAGU E.L. 25/80
JACRO SAMPLES
(ROBBINS BEACH, DBI MAJOR ANOMALY)

DATE: Feb 83
DED: J.P.
DRAWN: M.S.
CHECKED:



600071 83-1950



GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD - DEVONPORT
Scale: 1:10000
Plan No: 8

DATE: Feb 83
GEO: J.P.
DRAWN: M.W.S.
CHECKED:

MONTAGU E.L. 25/80
JACRO SAMPLES
(GRUNTER Rd, DODGERS Rd, NORTH BOUNDARY Rd)