

TRIAL HARBOUR AREA

S.P.L. 129

ANNUAL REPORT 1982-83

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September, 1983

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Tasmanian Mines Department (1)

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7. Stonehenge Grid - VLF E.M. Data.
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9. Diamond Drill Logs, TH10 to TH12.

SUMMARY

Exploration on S.P.L.129 during 1982/83 comprised ground surveys and diamond drilling on the Stonehenge Grid over the eastern end of the licence area, and diamond drilling at the Globe Mine within the Heemskirk Granite.

The Stonehenge area is thought to be prospective for Queen Hill style mineralization. In Spring - Summer, 1982/83, a 29 line km grid was established over the area, and programs of geological mapping, ground magnetics, VLF, gradient array I.P. and bedrock geochemistry carried out thereon. This work confirmed the prospectivity of the area and identified a number of possible drilling targets. One such target was subsequently drill tested in Autumn, 1983, unfortunately with disappointing results.

Two diamond drill holes were completed at the Globe Mine for a total of 234m. The results of this program strongly suggest that there are no significant extensions to the known mineralization. No further work is recommended here.

Work proposed for 1983/84 consists of a two hole diamond drilling program (totalling 600m) on the Stonehenge grid, gridding, geochemical and geophysical surveys over the Heemskirk Granite west and north-west of the Agnew Grid, and a stream sediment sampling program in the vicinity of the Little Henty River. This program is expected to cost \$137,000.

1. INTRODUCTION

S.P.L. 129 covers an area of 46 km², and extends from Zeehan to Trial Harbour on the West Coast of Tasmania (Figure 1). The area is partly rugged and heavily forested, particularly in its western half, with more moderate topography and button grass or regrowth vegetation elsewhere.

Geologically, the licence area covers a sequence of faulted and folded Upper Proterozoic and Paleozoic sediments, volcanics and basic to ultrabasic intrusives intruded by the Upper Devonian Heemskirk Granite.

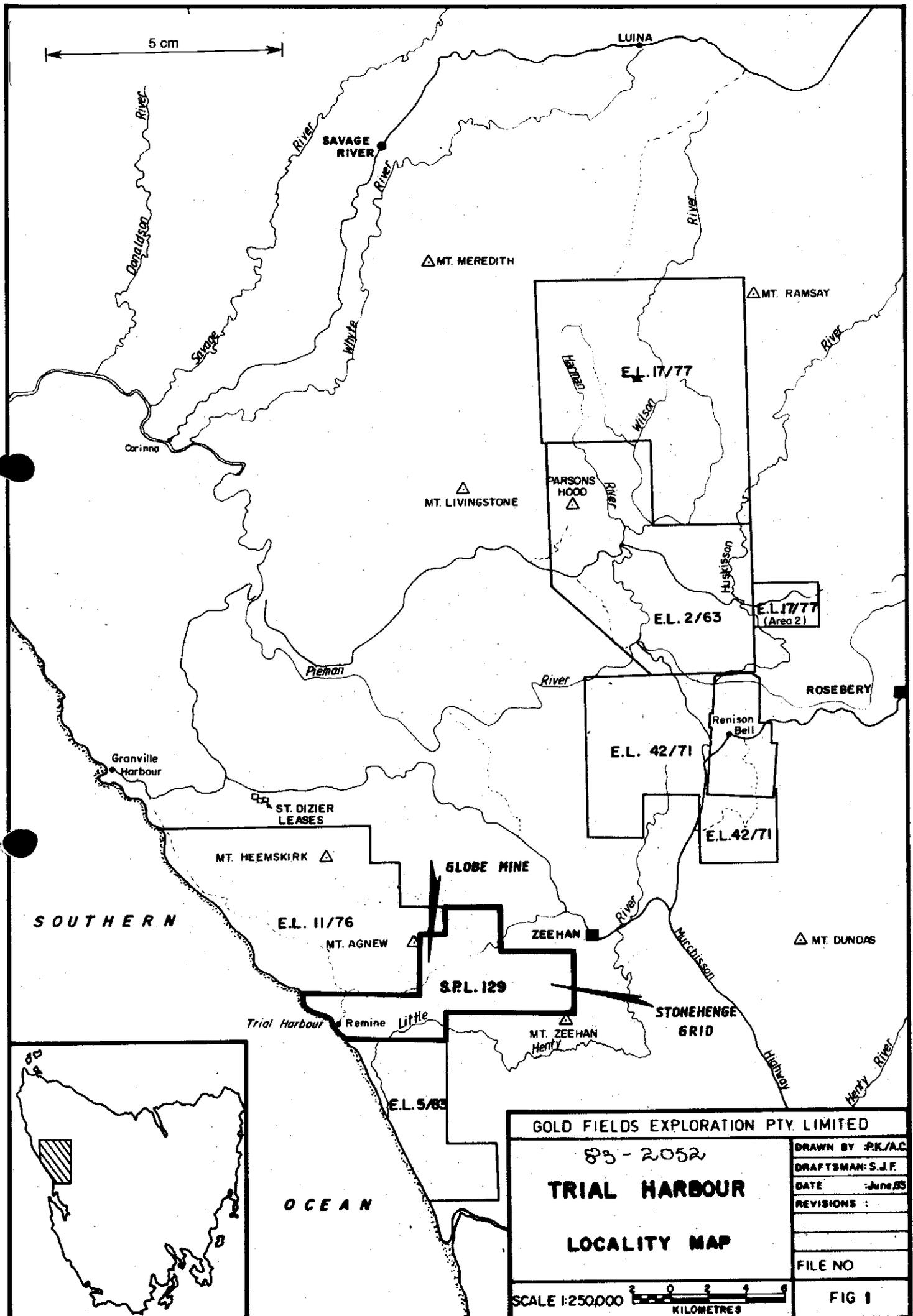
Known mineralization within S.P.L. 129 consists of cassiterite in tourmaline veins just south of the granite contact (Kelvin and Maynes), granite-hosted cassiterite and base metals-silver mineralization at the Globe Mine, and base metal-silver mineralization in veins and fault infillings at the eastern end of the licence area (Stonehenge Grid).

Since the licence was granted in 1973, the licence area has been systematically explored for tin and base metals. Until 1980, work was concentrated on areas adjacent to the granite margin, mainly testing the skarn potential of the hornfelsed country rocks. Since then, the exploration effort has been directed at Queen Hill-style, stanniferous sulfide targets on the Stonehenge Grid and stanniferous polymetallic sulfide targets within the granite, primarily in the Globe Mine area.

This report describes a program of gridding, ground geochemistry and geophysics, and drilling in the Stonehenge area, as well as drilling at the Globe Mine, and makes recommendations for further work in 1983-84.

2. EXPENDITURE

Expenditure on S.P.L. 129 during 1982-83 amounted to



5 cm

LUINA

SAVAGE RIVER

△ MT. MEREDITH

△ MT. RAMSAY

E.L. 17/77

△ MT. LIVINGSTONE

PARSONS HOOD △

E.L. 2/63

E.L. 17/77 (Area 2)

ROSEBURY

E.L. 42/71

E.L. 42/71

SOUTHERN

E.L. 11/76

GLOBE MINE

ZEEHAN

△ MT. DUNDAS

S.P.L. 129

STONEHENGE GRID

△ MT. ZEEHAN

E.L. 5/83

OCEAN

GOLD FIELDS EXPLORATION PTY. LIMITED

83-2052

TRIAL HARBOUR

LOCALITY MAP

DRAWN BY: P.K./A.C.

DRAFTSMAN: S.J.F.

DATE: June 83

REVISIONS:

FILE NO

SCALE 1:250,000



FIG 1

\$109,108. Detailed expenditure breakdowns are listed in Appendix 1. Total spending on the licence to the end of June, 1983, was \$464,717. Work proposed for 1983-84 is expected to cost \$137,000 (Appendix 2).

3. LAND TENURE

S.P.L. 129 is held in the name of the Mt. Lyell Mining and Railway Co. Ltd., a wholly owned subsidiary of Renison Goldfields Consolidated Limited (R.G.C.). Exploration of the Licence is currently being undertaken by Gold Fields Exploration Pty. Ltd., the exploration arm of R.G.C.

Within the licence area, there are 16 mining leases held by other parties and covering a total of about 3 km². For details of these leases, the reader is referred to Roberts (1981) and Kilpatrick (1982).

4. PREVIOUS WORK

The area covered by S.P.L. 129 has long been the subject of exploration and mining activity. The major historic areas of mining interest were Kelvin and Maynes Workings (tin), the Globe Mine (tin-base metals), the Tenth Legion magnetite deposits and the silver-base metals, vein-style deposits in the Stonehenge area. Since mining activity ceased in the early part of this century, exploration efforts on the latter area have been considerable, and are documented in section 5.1 of this report. Elsewhere in the licence area, however, exploration since that time has been largely confined to work by E.Z., south of the granite, and by Geophoto, east of the granite, ... the late 1960's and early 1970's, and the efforts of Renison and Mt. Lyell since 1973. The latter are detailed below:

1973-74: Compilation of data collected by E.Z. and geological mapping along the old E.Z. grid lines.

- 1974-77: Establishment of the Area D Grid over hornfelsed sediments adjacent to the south-east margin of the granite. Completion of ground surveys and two diamond drill holes thereon with mildly encouraging results.
- 1977-80: Establishment of the East Heemskirk Grid over hornfelsed sediments adjacent to the eastern margin of the granite. Completion of ground surveys and three diamond drill holes thereon as well as a further diamond drill hole on Area D, all with discouraging results.
- 1980-81: Establishment of the Agnew Grid over the south-east margin of the granite followed by ground surveys thereon. Chip sampling of the Globe Mine adits followed by gridding and ground surveys in the immediate Globe Mine area. Geological mapping of the eastern end of the licence area.
- 1981-82: Ground surveys on the Agnew and Globe grids, followed by completion of three diamond drill holes in the Globe Mine area. Dighem airborne E.M. and magnetics survey over the Stonehenge area.

5. STONEHENGE GRID (P. Komyshan)5.1 Introduction-Previous Work

The discovery of several tin bearing sulphide replacement bodies within rocks of the Onah Formation at Queen Hill (7 Mt. of 0.7% Sn including 3 Mt. of 1.0% Sn) has stimulated search for a similar system on the eastern end of SPL 129. This area has a long history of exploration and lead-silver mining which is summarised below:

1. Extensive prospecting and mining of silver-lead-zinc fissure lodes, during 1890-1920's, the most prominent being the Spray-Nubeena lodes and Grubb's.
2. 1920-1930's prospecting and drilling assistance from Mines Dept. at the Spray, Swansea (McIntosh Reid 1922-25) and North Tasmanian (latter 3 DDH with recovery of 6-8%, drilled during 1937).
3. Zeehan Exploration Pty. Ltd. 1946-1947 diamond drilling at Spray Mine associated with Loftus-Hill's (1947) Spray-Nubeena shear zone.
4. R.B. Hills mining and re-evaluation of the TLE-Swansea mines reported by Mines Dept. Taylor 1953.
5. Placer Prospecting Pty. Ltd. 1966. Again a concentration on the Spray-Nubeena lode system as outlined by Hills 1947 with several traverses of Ag Pb soil geochemistry.
6. Tenneco Pty. Besley 1971. Drilling and underground sampling of the Spray Mine.

7. Renison Ltd. 1975. Limited airborne input E.M. survey with follow up of 2 N.E. lines with ground magnetics and Cu Pb Zn Ag Sn soil geochemistry between Nth. Tasmania and TLE Mines.
8. R. Poltock, for Renison Ltd., mapped the eastern end of SPL 129 in detail during May-June 1981.
9. Airborne Dighem survey for Renison Ltd., during February 1982.

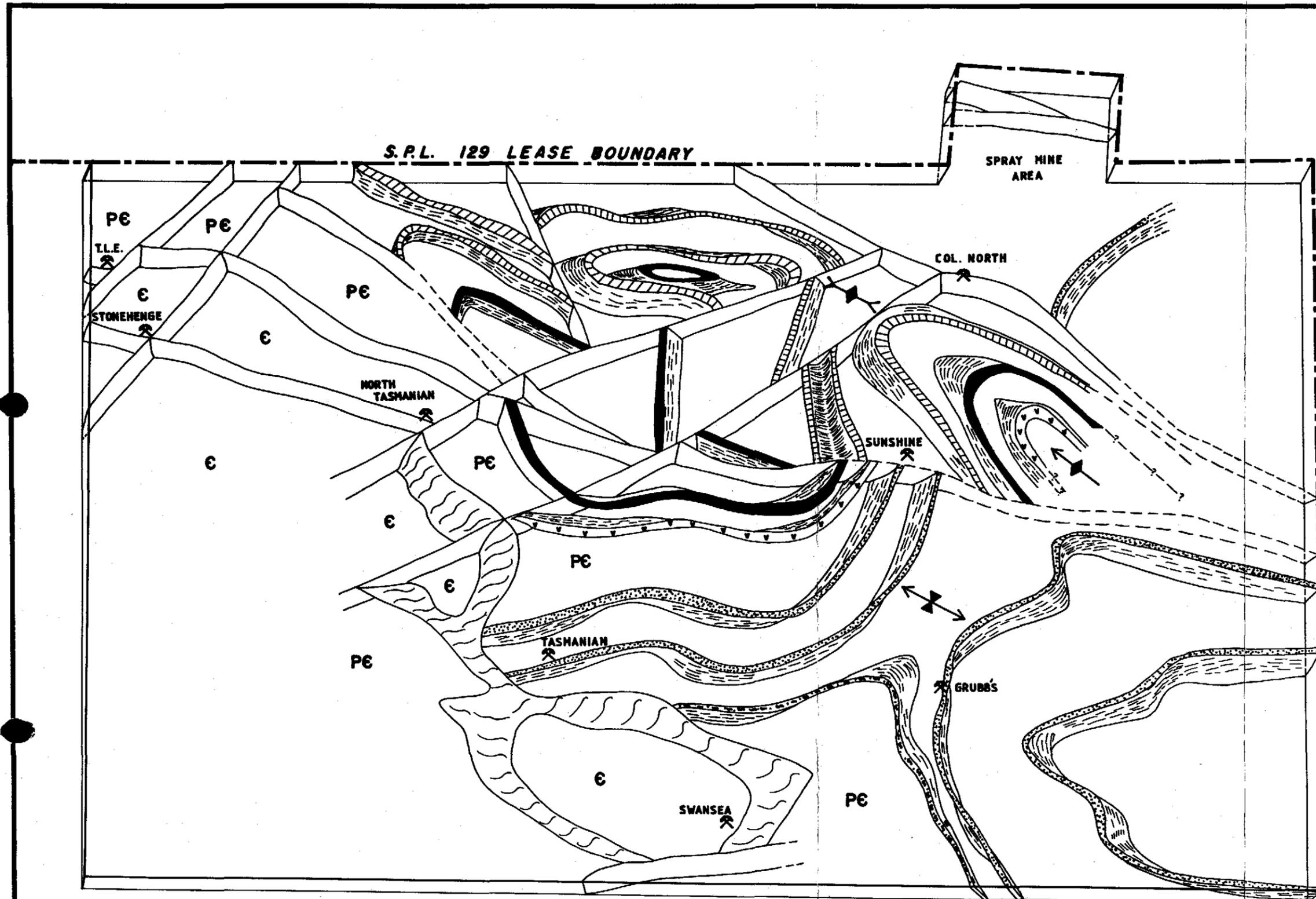
5.2 Access-Work Completed

A 28.9 km grid was established in the N.E. corner of SPL 129 over a tear drop shaped magnetic anomaly located by the Dighem survey (see Kilpatrick, 1981). Lines 200m. apart, with 100m. infill were cut from a 3 km base line bearing 109° AMG from a datum on the Tasmanian Tram.

5.3 Geology

5.3.1 Work Completed

Detailed mapping in this area has previously been carried out by R. Poltock (see Roberts, 1981). Although outcrop in the area is poor, subsequent mapping, both on and off grid lines, information from geophysical methods and diamond drilling (TH12), has led to some clarification of the geology within the Oonah Formation (see Figures 2 & 3). Petrological descriptions from 10 samples collected in the area are presented in Appendix 3.



KEY

- Unconformity
- Faults
- Carbonates, Siltstones
- Black Shales, Siltstones & Minor Sandstones
- Spillite
- Sandstones
- Fine Grained Sandstones & Siltstones

83-2052

GOLD FIELDS EXPLORATION PTY. LIMITED	
STONEHENGE	DRAWN BY : P.K.
INTERPRETATIVE GEOLOGY	DRAFTSMAN: S.F.
(VICINITY MAGNETIC ANOMALY)	DATE : July, 83
	REVISIONS :
	FILE NO.
SCALE 1: 10000	FIG. 3

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5.3.2 Stratigraphy

The sequence in the Stonehenge area is interpreted as follows:

1. PreCambrian Oonah Formation of
 - a) sandstones and siltstones overlain by
 - b) sandstones overlain by
 - c) spilites overlain by
 - d) black graphitic shales and siltstones overlain by
 - e) dolomites and siltstones.

This formation is unconformably overlain by or faulted against:

2. Cambrian Dundas Group Sediments of
 - a) basic pyroxene rich lavas overlain by
 - b) black to grey shales overlain by
 - c) chert rich grits and conglomerates overlain by
 - d) undifferentiated sequence of siltstones and conglomerates.
3. An apparent intrusive, of porphyritic quartz trachyte (sample 2287, see Appendix 3), within Cambrian basic lavas is not considered to be granitic in origin, but a feeder to Cambrian acid volcanism.

5.3.3 Structure**Oonah Formation**

1. Although highly folded the Oonah Formation in this area does not appear to be overturned.

2. A major cleavage developed parallel to bedding indicates large scale (Amplitude 5-10 km) and possibly local scale recumbent folding.
3. The major observable fold system is E.S.E. trending (see Figures 2 & 3) with a synclinal fold axis in the vicinity of Grubb's Mine and an anticlinal axis north of the Sunshine Mine.
4. Late stage NNW - trending folding has been superimposed on the earlier E.S.E. trending folds, resulting in dome structures e.g. West of Grubb's Tram.
5. Axial planar cleavage within both the E.S.E. and N.N.W. trending foldings is poorly developed.
6. A generalized sketch of the interpreted regional structure is given in figure 2.

Faults

1. Major faults in the area are E.S.E. trending (Balstrup and Tenth Legion Faults). The extension of the Tenth Legion Fault beyond the T.L.E. mine is interpreted from geophysics.
2. Geophysics also indicates two strong E.N.E. trending faults one of which is probably mineralized.

3. N.W. trending fissure lodes mined by early prospectors do not appear to have significant displacement.

5.4 Geochemistry

5.4.1 Work Completed

Contractors collected bedrock samples, by power auger, at 25 m. intervals over the whole grid. Less than 5% of the samples were from gravels not penetrated by power auger. Rock chip samples were collected during routine mapping and mine dumps were sampled. Samples were crushed and assayed for Cu, Pb, Zn by A.A.S. and Sn, As, W_3 by XRF at Renison. Auger samples from lines 2400E, 2500E, 2600E, 2800E were initially assayed at Analabs (Burnie) for Sn, As, Cu, Pb, Zn, then later reassayed for As and W_3 at Renison. All auger samples were also assayed for Mo at Renison.

Contoured assays for Cu, Pb, Zn, Sn, As are shown on Figures 4-8, and all assays are shown on line profiles (see Figures 9-33). Detailed sample descriptions and assays are given in Appendix 4.

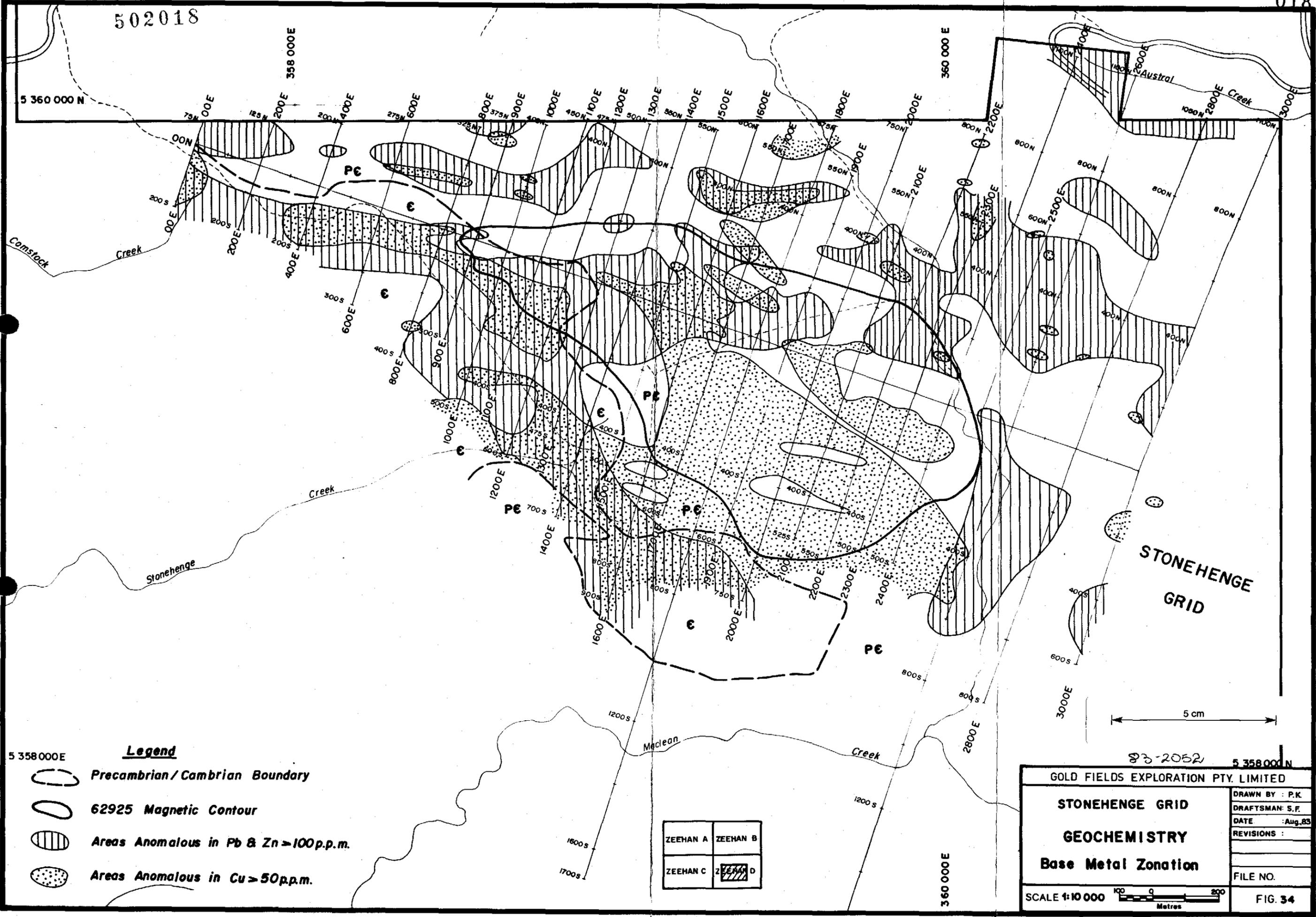
5.4.2 Results

1. Background values of all elements assay below detection limits.
2. Sn values are generally insignificant (see Figure 7) with the exception of mine dump samples and from a galena sphalerite pyrite vein at grid 800E, 150N (1050 ppm). These results indicate there is no surface Sn mineralization. However, mine dump samples indicate the presence of Sn mineralizing systems at depth.

3. Anomalous Pb-Zn assays appear to occur as a halo around the eastern part of the magnetic anomaly and to a lesser extent around the western part of the anomaly (see Figure 34).
4. Zn mineralization is generally subordinate to Pb mineralization with the exception just north of the base line in an area of low resistivity on lines 1900E-2300E. The rocks in the area, which includes the Sunshine Mine and the Colonel North Mine, are carbonate rich.
5. Cu anomalies are of lower order than Pb-Zn anomalies. These anomalies (shown in Figure 4) occur within
 - a) the central part of the magnetic anomaly (Oonah Formation)
 - b) Cambrian sediments and volcanics
 - c) a Pb-Zn anomaly zone to the north of the magnetic anomaly (Oonah Formation).
6. Arsenic anomalies are generally spot values with the exception of two areas (Figure 8):
 - a) 100m north of the base line or lines 1900E-2400E. Values up to 400 ppm occur in an area of false gossan.
 - b) Vicinity of the Colonel North Mine. A sample with the highest values of 13.7% As (from the mine dump) also contains 0.1 ppm Au.

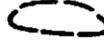
These two areas also correspond to an area of low resistivity and anomalous Zn.

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5 358 000 E

Legend

-  Precambrian/Cambrian Boundary
-  62925 Magnetic Contour
-  Areas Anomalous in Pb & Zn > 100 p.p.m.
-  Areas Anomalous in Cu > 50 p.p.m.

ZEEHAN A	ZEEHAN B
ZEEHAN C	ZEEHAN D

GOLD FIELDS EXPLORATION PTY. LIMITED	
STONEHENGE GRID	
GEOCHEMISTRY	
Base Metal Zonation	
SCALE 1:10 000	
FILE NO.	FIG. 34

DRAWN BY : P.K.
 DRAFTSMAN: S.F.
 DATE : Aug. 83
 REVISIONS :
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7. WO_3 anomalies generally correspond with As anomalies but with a reduced contrast to background.
8. Most Mo assays were below detection limit and no significant anomalies were delineated.

5.5 Geophysics-Work Completed

1. A Dighem survey was flown over the N.E. corner of SPL 129 during February 1982 (see Kilpatrick, 1982). An interpretation of this survey by J.R. Bishop is given in Appendix 5.
2. An anomalous area delineated by the airborne survey was followed up by ground geophysical surveys (V.L.F., magnetics and gradient array I.P.) during 1982-83. Data for all the ground surveys is presented on line profiles (Figures 9-33). Corrected readings for the magnetic survey are tabulated in Appendix 6 and contoured values are shown on Figure 37. Readings from the V.L.F. survey are tabulated in Appendix 7 and contoured Fraser algorithm values are shown on Figure 38. Contoured resistivity and chargeability data is presented in Figures 39, 40.
3. A description of the ground surveys and results by J.R. Bishop is given in Appendix 8.

5.6 Diamond Drilling

Diamond drill hole TH12, drilled during May 1983, 401.5m long was collared at grid 2100E, 170N. A diamond drill log is presented in Appendix 9 and a profile of the hole is shown on Figure 26.

The hole, drilled at a bearing of 199° , was designed to test the broad magnetic anomaly at depth and possible

020

mineralized fault structures as delineated by the V.L.F. anomalies.

The diamond drill log is summarized below:

- 0 - 10.5m Pseudogossan and clay
- 32.0m Black shale
- 41.0m Mineralized fault breccia
- 59.0m Dolomite
- 79.3m Poor recovery zone
- 82.0m Mineralized fault breccia
- 128.5m Dolomite
- 129.8m Fault Breccia
- 280.55m Interbedded black shale and sandstone
- 398.7m Spilite
- 400.0m Fault Breccia
- 401.5m Spilite

Two significant base metal rich fault zones were intersected which also contained high values of arsenic and antimony but insignificant tin i.e.:

32.0 - 42.0m : <0.01% Sn, 0.06% As, 0.02% WO₃, 0.02% Cu, 1.0% Pb, 2.49% Zn, 32 ppm Ag, 0.04% Sb.

79.0 - 82.0m : <0.01% Sn, 0.25% As, 0.07% WO₃, 0.85% Cu, 1.5% Pb, 10.3% Zn, 261 ppm Ag, 0.73% Sb..

An intersected dolomitic sedimentary horizon although unmineralized in this hole is a suitable host rock for replacement mineralization.

Spilitic rocks intersected from 280.55 - 401.5m are unmineralized and non magnetic. An apparent increase in bleaching, sericite alteration and silicification occurs downhole. However in samples from the drill hole, presented for petrological description, D. Cowan (C.M.S.) sees no notable variation of the secondary assemblages of Fe-carbonate, quartz and sericite.

Variable proportions of chlorite occur (see Appendix 9). Assays from the spilites show no evidence of a leakage halo from possible mineralization at depth.

5.7 Discussion

1. Outcrop in the Stonehenge area is poor. The only geological information available is from auger samples, outcropping siliceous rocks and mine dump material. Carbonate and spilitic rocks within the area weather to clay and generally do not outcrop. Hence the broad stratigraphy proposed (see Figure 3) is conceptual and is based on limited information. Linears and trends, from geophysical data, were used to help clarify the structure. However questions, such as what rock type occurs at depth in the vicinity of the eastern magnetic anomaly and whether the PreCambrian-Cambrian contact is unconformable, faulted or both, remain unanswered. (A fault contact is indicated by Gradient Array I.P. which shows a strong contrast in resistivities in the vicinity of the base line.)
2. Hydrothermal systems have been observed to have a geochemical zonation (concentric annuli) centred on granitic, often porphyritic stocks, bosses, plugs or dyke swarms (Boyle, 1982). This zonation comprises an outer lead-zinc, silver zone and an inner iron copper, molybdenum and/or tin and antimony zone. Arsenic can occur within both zones. This zonation can be local (i.e. within single fractures) or on a large scale. Such a regional zonation occurs in the Stonehenge area where a concentric lead-zinc anomaly zonation occurs in the vicinity of the eastern magnetic anomaly (see Figure 34) and copper anomalies occur within the central part of the magnetic anomaly. This pattern of geochemical zonation is consistent with a model

of leakage anomalies centred on a granite cupola. The magnetic anomaly may be explained by hornfelsing of adjacent sediments by granite.

Such a model could incorporate peripheral bodies within faults or replacing carbonates. These would exhibit local geochemical halos. Such may be the case 400m north of the base line between lines 1500E and 1900E where coincident lead-zinc and copper anomalies occur in the vicinity of V.L.F. anomalies and Dighem anomalies I10 and I11 (see Figure 41).

3. Tin anomalies in the Stonehenge area are sparse but indicate an association of tin mineralization with fracture controlled lead-zinc vein systems. Such mineralized fractures may in themselves be zoned (i.e. increase in tin at depth). For example a value of 1050 ppm Sn from a pyrite-galena vein at 800E, 150N (250m NW of western magnetic anomaly) may indicate proximity to a tin mineralizing system or orebody. It must be concluded from the geochemistry that no tin mineralized ore body is outcropping but potential for such exists at depth.
4. Antimony mineralization recorded in the lowest Spray level at 11% (Placer Report, 1966) and in DDH TH12 (3m at 0.73%) may be significant in the Stonehenge area.
5. To indicate the model of a granite cupola, evidence must be shown for an increase in alteration with depth. DDH TH12 drilled south on the eastern magnetic anomaly showed an apparent increase in bleaching, sericite alteration and silicification. However no notable variations in secondary assemblages of Fe-carbonate, quartz and sericite were noticed in thin section.

6. The source of the magnetic anomalies is still uncertain. One explanation is that of an ultrabasic rock. However:
- a) no PreCambrian Oonah Formation ultrabasic bodies have been recorded.
 - b) spilitic rocks in DDH TH12 were not magnetic.
 - c) Cambrian ultrabasic rocks have been recorded only within Cambrian sedimentary basins.

Hence for Cambrian ultrabasic rocks to be a source for the magnetic anomaly, large scale reverse or thrust faulting of Precambrian rock over Cambrian rocks would have to occur.

7. A model of a pyrrhotite-cassiterite orebody buried at 50m could explain the western magnetic anomaly at line 1000E. However a corresponding strong chargeability anomaly is lacking. A hole targeted at a depth of 150-200m (well below weathered surface) could test for the potential of a pyrrhotite mineralized system. Magnetic modelling indicates that elsewhere, away from the two main magnetic anomalies, Stonehenge grid, a pyrrhotite rich body above 220m is unlikely (see Appendix 8).
8. A pyrite-cassiterite body which would be chargeable but not magnetic could still occur within low resistivity areas north of the base line. Dighem anomalies I10 and I11 and nearby V.L.F. anomalies may indicate such a body. Gradient array I.P. data needs to be upgraded (with small electrode spacing) to isolate chargeable areas within the low resistivity zones. Deep searching geophysical techniques such as E.M. (see Appendix 8) may be applicable to search for such a body.

6. GLOBE MINE AREA (A.J. Cartwright)

6.1 Work Completed

Work completed during the 1982/83 summer field season consisted of a diamond drilling program of two holes, totalling 233.5m. This program was designed to test for the possibility of extensions of the mineralization known to occur at the Globe Mine. The exact collar positions, bearings and dips of the holes were calculated to give a maximum possible coverage over the area of granite with a potential for hosting significant mineralization. No other work was undertaken in the Globe Mine area this season.

6.2 Results and Discussion

The first hole, TH10, was drilled in an attempt to intersect a possible southern extension of the Globe Mine mineralization. This was not successful as can be seen from the following summarised log:

TH10

0.0 - 20.3 Weathered, argillised and tourmalinised, medium grained granite.

20.3-110.0 Weakly altered (sericitised), medium-grained, slightly porphyritic, tourmaline bearing granite.

A full, detailed log is given in Appendix 9 and a drill hole plan can be seen in Figure 49. The tourmalinised zone encountered at the top of TH10 can be correlated with the existing tourmalinised zone shown in the north-south sectional view (Figure 50). However, this hole effectively limits any major southern extensions of the mineralization.

The second hole, TH11, was designed to test for extensions of mineralization to the west and north. Disappointing results were recorded as only a very weakly argillised zone was found.

A summarised log is given below and a detailed log is given in Appendix 9.

TH11

0.0 - 16.2	Very weakly altered, medium grained granite.
16.2 - 36.2	Weakly argillised, medium grained tourmaline granite.
36.2 - 123.5	Weakly and moderately altered (sericitised) tourmaline granite. Medium grained.

This hole, displayed in plan view of Figure 49, is included in the east-west sectional profile through the Globe Mine area (Figure 51).

The narrow altered zone intersected by TH11, when correlated with surface geological information, plainly shows that no large mineralized extensions can occur to the west. Also, extensions to the east (Figure 51) and north (Figure 50) are similarly limited as the only shape a mineralized body could possibly take to avoid being exposed, would be a thin, easterly dipping sheet.

A brief examination of both the Globe Mine area sections (Figures 50 and 51) reveal that the potential tonnage of mineralized/altered rock is highly unlikely to exceed 100,000 tonnes. It must also be noted that this zone has only patchily developed tin-base metal mineralization (containing ultra-fine cassiterite) and the recorded grades (Kilpatrick, 1982) are themselves quite low. Therefore, the likelihood of this area having the same potential as Sweeneys or Anomaly 1 on the Federation area is small.

7. CONCLUSIONS AND RECOMMENDATIONS (P.A. Roberts)7.1 Stonehenge Grid

The exploration target here is Renison- or Queen Hill-style stanniferous sulphide-rich mineralization. The work to date has confirmed that such mineralization does not outcrop in the gridded area. Nevertheless the area is considered strongly prospective for buried orebodies of this type because:

- (1) Weakly stanniferous silver-lead-zinc veins are widespread in the area. They probably represent the "distal" portion of a tin mineralized system. Although part of this system clearly occurs in the Queen Hill area north of the licence boundary, there is a real possibility that a separate mineralized centre occurs at depth within S.P.L. 129.
- (2) A sedimentary unit containing a significant thickness of impure dolomite has now been identified within the grid area. This carbonate, which is similar to the Success Creek Group dolomites at Renison (Appendix 9), is potentially a host for replacement mineralization.
- (3) Interpretation of geological and geophysical data has indicated abundant faulting and fracturing in the grid area. This is a characteristic of large tin mineralized systems like Renison where such fracturing has provided the "plumbing" for mineralizing fluids.

A major reason for the initial exploration interest in the area was the presence of a large magnetic anomaly. It is now unclear whether that anomaly reflects a buried granitic cupola or an ultrabasic intrusive (Appendix 8). Nevertheless, the above

arguments are sufficient justification for further exploration work in the area irrespective of the origin of the anomaly.

Exploration on this project can take one of two basic directions in 1983/84, namely:

- (1) To continue looking for diamond drilling targets using indirect exploration techniques (e.g. geophysics, geochemistry), or
- (2) To use diamond drilling as the major exploration tool.

The second approach is preferred because:

- (1) Ground surveys using indirect exploration methods are hampered in this area by "noisy" geophysical conditions and the likely depth of burial of the target mineralization. (> 100m),
- (2) Diamond drill holes targetted at potential ore zones should also be useful for:
 - (a) obtaining geophysical and lithogeochemical data at depth in the target area.
 - (b) improving the geological interpretation in this area of considerable structural complexity.

These points are discussed more fully below:

7.1.1 Geophysics

The target mineralization is likely to be either pyrrhotite-rich, in which case it should respond well to I.P., E.M. and magnetics, or pyrite-rich, in which case it is probably

a good I.P., but moderate to poor E.M. target.

Clearly the obvious place to look for the target mineralization is within the carbonate-bearing horizon. Unfortunately the latter is overlain by a conductive clay layer which probably precludes the effective use of I.P. Consequently, if the target is pyrite-rich, it will probably be very difficult to detect by geophysical means. If the target is pyrrhotite-rich and within 200-250m of the surface, it should be detected by magnetics (Appendix 8). Although some E.M. techniques may "see" deeper than this, it seems unlikely that they would generate any good drilling targets at such depths given the amount of E.M. noise generated by the conductive overburden, faults and graphitic shales. At this stage, therefore, no further ground surveys of electrical geophysics are recommended.

A closer look at the magnetics data may generate some drill targets, however. It is proposed that the magnetics data should be studied in more detail in order to identify any residual anomalies and model them to see whether they could represent magnetic pyrrhotite orebodies. Some limited additional data collection is required for this task. If possible pyrrhotite bodies are identified within 250m of the surface, some follow-up E.M. could be justified to identify the better drilling targets, probably in late 1984.

E.M. and I.P. measurements should be taken down the proposed drill holes if they fail to intersect the target mineralization to

029

test for conductive or chargeable bodies at depth in the vicinity of the holes. Down-hole E.M. should be relatively effective in the absence of the conductive overburden which should cause problems in any surface surveys.

7.1.2 Geochemistry

Lithogeochemical and alteration patterns exist around the Renison orebodies. If the proposed drill holes fail to intersect mineralization, core should be obtained for trace element and petrological analysis in order to determine whether the holes have encountered the fringes of a hydrothermal, tin-mineralized system similar to Renison.

7.1.3 Drilling

A two hole diamond drilling program totalling 600m, is proposed for April-May, 1984 (Figures 2, 20, 29). This program is designed to achieve two aims:

- (1) To test specific drilling targets for fracture controlled or carbonate replacement, stanniferous, sulphide-rich mineralization.
- (2) To test for any evidence of a lithogeochemical or alteration halo around a mineralized system at depth in the vicinity of the two holes.

Given the erratic distribution of this style of mineralization (e.g. Renison), the inherent uncertainties in the geological interpretation and the lack of a diagnostic geophysical tool in this area, the second aim is at least as

important as the first. Drill holes designed only to achieve the first aim in this geological environment represent quite high risk exploration; every available method must therefore be used to enlarge the volume of rock that the drill hole is testing and therefore reduce that risk. (see sections 7.1.2, 7.1.3).

Hole details are as follows:

TH13: Collar co-ordinates (grid): 1500E, 510N

Bearing: grid south

Inclination: -50°

Anticipated depth: 250m

Justification: The hole is designed to test beneath a strong combined lead-zinc-copper-arsenic-tungsten anomaly coincident with an outcrop of brecciated limonitic sandstone, and a strong VLF anomaly. The target area lies within an interpreted anticline of the carbonate-bearing sequence. The target is a mineralized fault, enriched in base metals near the surface and becoming stanniferous with depth, in contact with carbonate replacement tin mineralization 100-150m below the surface. A deeper hole is not recommended because it could drill right through the carbonate sequence before reaching the target zone and because the orientation of the possible feeder structure is unknown.

TH14: Collar co-ordinates (grid): 2400E, 325N

Bearing: grid north

Inclination: -45°

Anticipated depth: 350m

Justification: The hole is designed to test beneath where the southern extension of the Spray No. 3 Lode contacts an interpreted west-north-west trending fault in the vicinity of the Colonel North workings. Chip samples from the latter have contained elevated levels of tin. The carbonate-bearing sequence is interpreted to lie south of and in contact with the two structures. The target is a stanniferous mineralized fault in contact with carbonate replacement tin mineralization 150-250m below the surface.

Finally, some further detailed geological mapping is required to confirm the current interpretation and to improve understanding of the structural features in this area.

7.2 Globe Mine

The results of the 1982/83 drilling program have downgraded the potential of this prospect considerably. No further work is recommended here.

7.3 Little Henty Area

This area occupies the southern edge of the western two thirds of the licence area. It is a heavily vegetated, rugged tract which has been virtually unexplored up until now. The area has potential for hydrothermal

tin orebodies. In addition, some traces of alluvial gold have been reported.

It is proposed that the area be covered by a stream sediment survey which should comprise both -80 mesh and panned concentrate sampling of streams draining all that part of the licence area south and south-east of the granite which is as yet unexplored by gridding (Figure 52).

7.4 Heemskirk Granite Gridding

Exploration on the Agnew Grid and at Sweeneys Mine (on E.L. 11/76) has revealed that the south-eastern margin of the granite has potential for a considerable number of stanniferous, polymetallic sulphide-rich deposits.

During 1983/84, additional gridding and ground surveys are recommended with the aim of obtaining complete grid coverage of the geologically favourable, older ("red") granite near its contact with the sediments (Figure 52). The formula used successfully on the Agnew Grid should be repeated here i.e.:

- (1) Lines 100m apart.
- (2) Gradient array I.P., on stations 25m apart along the lines.
- (3) Soil or bedrock geochemical sampling every 25m along the lines.

This program is expected to cost \$137,000. Budget details are attached (Appendix 2).

5 cm

E.L. 47/71

E.L. 11/76

AREA OF PROPOSED GRID

Lake Cumberland

S.P.L. 129

AREA OF PROPOSED GRID

Trial Harbour

Remine

Little Mary River

SOUTHERN

OCEAN

GRANITE CONTACT



EXISTING GRIDS



AREA COVERED BY PROPOSED WORK

GOLD FIELDS EXPLORATION PTY LIMITED

WESTERN PART, S.P.L. 129

PROPOSED WORK,
1983-84

SCALE 1:50 000



DRAWN BY A.J.C.

DRAFTSMAN S.J.F.

DATE July, 83

REVISIONS

FILE NO

FIG 52

502033 83-2052

033

8. REFERENCES

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APPENDIX 1.

Expenditure 1982-82.

EXPENDITURE 1982/83

	\$
<u>GEOLOGY</u>	
-Salaries	20,358
Salary on-costs	1,302
Transport	797
Miscellaneous	490
Outside contractors	5,159
Travel	863
Stores	1,814
	<hr/> 30,783
<u>GEOPHYSICS</u>	
-Miscellaneous	452
Outside contractors	20,140
	<hr/> 20,592
<u>GEOCHEMISTRY</u>	
-Assays	8,910
Outside contractors	12,317
	<hr/> 21,227
<u>DRILLING</u>	
-Outside contractors	31,774
Stores	1,275
	<hr/> 33,049
<u>SITE PREPARATION</u>	
-Outside contractors	570
	<hr/>
<u>SURVEYING</u>	
-Outside contractors	245
	<hr/>
<u>INDIRECT MOTOR VEHICLE EXPENSES</u>	
	2,642
	<hr/>
	109,108
	<hr/> =====

APPENDIX 2.

Proposed Budget 1983-84.

TRIAL HARBOUR AREA S.P.L. 129BUDGET 1983/84

	\$
<u>GEOLOGY</u>	
-Salaries	24,500
Salary on-costs	4,838
Outside contractors	3,500
Travel and accomodation	2,100
Stores	2,000
	<hr/> 36,938
<u>GEOPHYSICS</u>	
-Outside contractors	27,000
<u>GEOCHEMISTRY</u>	
-Outside contractors	22,700
Stores	300
	<hr/> 23,000
<u>DRILLING</u>	
-Outside contractors	33,000
Analysis	3,600
Stores	1,650
	<hr/> 38,250
<u>LAND ACQUISITION</u>	
-miscellaneous	1,200
<u>SITE PREPARATION</u>	
-Outside contractors	6,600
<u>SURVEYING</u>	
-Outside contractors	1,000
<u>INDIRECT MOTOR VEHICLE EXPENSES</u>	
	<hr/> 3,000
	<hr/> 136,988
	=====

APPENDIX 3.

Stonehenge Grid - Petrological Description - Rock Chip Samples.

040
502040

Central Mineralogical Services



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

Mr. L.A. Newnham
Assistant Exploration Manager
Gold Fields Exploration Pty. Ltd.
P.O. Box 835
BURNIE / TAS. 7320

29th March, 1983

REPORT CMS 83/3/13

YOUR REFERENCE: Letter dated 8.3.1983
PK/9003/5

DATE RECEIVED: 11th March, 1983

SAMPLE NOS.: 24 Samples

SUBMITTED BY: L.A. Newnham

WORK REQUESTED: Petrology

H.W. Fander, M. Sc.

REPORT CMS 83/3/13Stonehenge Area

The ten rock samples comprise a composite of mildly metamorphosed quartzose psammopelites and altered basic to ultramafic igneous rocks.

Metasediments range from quartzose silty to relatively argillaceous pelites and quartzitic psammites. These rocks are variably carbonaceous, reflect sub- to low-greenschist regional metamorphic effects and are essentially unmineralised. Petrological characteristics are typical of the Obnah Formation. There is a notable absence of "granitic" alteration effects.

Associated igneous rocks include altered basaltic to relatively felsic ("quartz trachytic") types and an ill-defined, relatively altered ultramafic component, partly reflected simply as relict chromite grains in a silicified breccia (0200). The igneous rocks exhibit marked alteration in comparison with the sediments. Quartz-clay(-chlorite) assemblages are typical and probably largely deuteric. There is at least localised development (sample 2286) of multistage fracture-controlled siliceous alteration assemblages with associated disseminations of base metal sulphides, pyrite, and extremely fine subacicular arsenopyrite. There are possible affinities with "Zeehan-type" and with certain "epithermal" styles of gold mineralisation (notably the Wiluna Au-As association developed in Precambrian basalts), and analyses for Au and Ag may be warranted.

D. Cowan, B. Sc.

Sample No.	Classification - Composition	Fabric	Accessories	Comments
0190 (T.S. 45490)	<u>Altered "Picrite"</u> . Variably montmorillonite stained quartz with frequent quartz amygdalae, quartz-clay-pseudomorphed phenocrysts. More or less pervasive limonite stainings.	Relict strongly porphyritic, coarsely amygdaloidal "basic" igneous with a basaltic textured groundmass.	Thinly disseminated microscopic clusters of chromite. Conspicuous fine leucoxenised opaques.	Thoroughly altered/ weathered ultrabasic-basic ?minor intrusive. Quartz-clay assemblage appears partly secondary (after talbite-uralite).
0200	<u>Silicified Breccia</u> . Vein-type quartz with angular clasts of silicified/weakly sericite-siderite-stained ultramafic rock (?serpentinite).	Medium-grained, slightly vuggy vein with random "xenoclasts". Grades into quartz-healed breccia.	Disseminated relict grains of chromite, magnetite in silicified-sericitised clasts.	Brecciated, thoroughly quartz-veined, silicified ultramafic, apparently a serpentinite on basis of vague relict textures in clasts.
2284	<u>Carbonaceous Pelite</u> . Fine- to semi-sericitic muscovite and weakly recrystallized, silt- to fine sand-sized detrital quartz with conspicuous bleached carbonaceous matter. Minor sericitic microfractures.	Finely laminated, shale-parted silty fine sandy shale/ argillaceous siltstone. Weakly sheared.	Disseminated detrital leucoxenic semi-opaques, tourmaline, zircon. Rare graphite flakes.	Weakly regionally metamorphosed carbonaceous, quartzose silty pelite. Typical Onah Formation character. Devoid of hydrothermal, metasomatic effects.
2285	<u>Argillaceous Quartzite</u> . Framework of fine sand- to silt-sized, subangular to subround quartz, minor chert clasts, sericite pellets, muscovite flakes. Sericite/microcrystalline quartz matrix. Minor bleached carbonaceous matter.	Well-sorted silty fine sandstone, weakly bedded. Moderately sheared/recrystallized.	Relatively conspicuous detrital heavy mineral grains (sim. 2284).	Mildly sheared, but unaltered argillaceous quartzite. Close affinities with 2284.
2286	<u>Altered Basalt</u> . Angular clasts of thoroughly quartz-sericite-chlorite-altered basalt, veined by quartz, weakly pyritised. Matrix of microcrystalline quartz stained with pervasive very fine pyrite, arsenopyrite.	Essentially a quartz-healed breccia.	Minor traces galena, sphalerite (in early generation quartz veinlets).	Altered, weakly pyrite(-Zn-Pb)-mineralised basalt, subsequently brecciated/quartz-healed and pyrite-arsenopyrite mineralised. May warrant analysis for Ag, Au.
2287	<u>Altered Quartz Trachyte</u> . Variably sericitised phenocrysts, laths alkali feldspar, chloritised pyroxene, corroded quartz phenocrysts, with a chlorite mesostasis, sporadic quartz amygdalae.	Porphyritic, amygdaloidal, weakly flow-structured, "basaltic". Trend medium-grained.	Conspicuous fine leucoxenised opaques. Traces pyrite.	Differentiated basic characteristics doubtfully a "mineraliser". Alteration is of deuteric character.
2288	<u>Carbonaceous Pelite</u> . Sericitic Slate with varying proportions silt-, minor fine sand-sized relict detrital quartz, pervasive carbonaceous matter. Minor kaolinitic microfractures.	Laminated pelite with concordant slaty cleavage, minor crenulations.	Conspicuous detrital leucoxenic semi-opaques, minor detrital schorl, zircon.	Close affinities with 2285 and 2284. Similarly unaltered apart from low-greenschist facies regional metamorphic effects.
2289	<u>Carbonaceous Protoquartzite</u> . Framework of fine sand-sized, subangular to subrounded quartz, subordinate sericitic shale clasts, minor muscovite flakes. Sericite/microcrystalline quartz matrix; pervasive carbonaceous matter.	Analogous to 2285, weakly shale-parted.	Detrital heavy mineral grains (sim. 2284 etc.).	Close affinities with 2285, but with a relatively high proportion of shale clasts, sericite pellets. Unaltered apart from metamorphic effects.

502042

042

Sample No.	Classification - Composition	Fabric	Accessories	Comments
2290	<u>Protoquartzite</u> . Framework of fine to medium subangular-subround quartz, subordinate sericitic pelite clasts. Weakly sericitic overgrowth- and microcrystalline quartz matrix. Minor sericitic fractures.	Weakly bedded, well-sorted sandstone. Mildly stressed/sheared.	Detrital heavy mineral grains. Traces carbonaceous matter. Minor clastic chert fragments.	Weakly argillaceous protoquartzite with close similarities to 2289 in terms of clastic components. Relatively coarse-grained, but similarly well-sorted. Unaltered.
2291	<u>Protoquartzite</u> . Fine- to medium-grained protoquartzite, analogous to 2290, but slightly relatively argillaceous, carbonaceous.	Moderately to well sorted, weakly bedded. Stressed/partly recrystallized.	Detrital heavy mineral grains (sim. 2284, etc.). Sporadic weakly quartz-healed microfractures.	Close affinities with 2290, 2289. Includes minor clasts of carbonaceous pelite. Unaltered apart from low-grade metamorphic effects.

APPENDIX 4.

**Stonehenge Grid - Bedrock Geochemistry,
Sample Descriptions and Assays.**

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *P. KORNYSZAK*
 DATE DISPATCHED: *8/11/82*
 DATE RECEIVED:

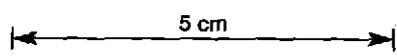
PROJECT: *SPL 124*
 1:250,000 SHEET:

PROSPECT: *STONEHENGE*
 TYPE OF SAMPLE: *ROCK CHIP*

SAMPLE STORAGE REQ'D:
 SAMPLE PREP. REQ'D:

LABORATORY: *REXSON*
 ANALYSIS REQ'D:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES					
				Sn	As	WO ₃	Cu	Pb	Zn
0138	WORKINGS OF CREEK 9 NORTH OF LIVE BOLE		Gossan from dump, <i>± siderite and galena?</i>	80	1580	480	110	4.6%	14.9%
0139	EASTERN TRAIL OF ABOVE CREEK (EASTERN BANK)		Gossan (float)	10	550	30	<10	290	3050
0140	AS ABOVE BUT 20m EAST		Gossan <i>± enclosed sandstone fragments.</i> ^{false gossan?}	10	430	10	<10	120	1910
0141	Line 1100E - 335N-345N		NE trending o/c of gossanous brecciated ss.						
0142	5m NE of 0141		" " " " "	20	2250	10	70	910	210
0143	Line 2000E 412N		gossanous float. (false?)	15	190	<10	10	230	260
0144	Line 1500E 380N		of sandstone <i>± wuggy textures after carbonate?</i> lim stained	10	70	20	70	3200	2350
0145	" SW of 385-395N o/c		gossanous sandstone (similar to 0144)	10	290	20	80	410	2490
0146	" 2100E 150N-125N		random float sample - gossan.	<10	220	<10	<10	80	70
0147	" " 125N-100N		" " " "	10	360	<10	<10	110	60
0148	" 2200E 150N		float - gossan.	<10	160	<10	10	140	230
0149	Colonel North Mine dump		Dump sample - limonite stained sandstone.	120	3955	80	270	8500	1550
0150	Line 2300E 545-540N		o/c gossanous <i>± ss frag and sand ch?</i>	20	670	30	140	5200	2480
0151	" " 475N		float gossan	<10	160	30	110	14%	5200
0183	" 2600E 235N		limonite gossan? ore Fe accumulation	40	450	10	260	140	50
0184	" 3000E 152.5N		Eastern vein of py gn.	540	9700	-	4850	5700	315
0185	" " "		brown micaceous rock <i>± gn & Mn staining</i>	75	300	-	90	2.52%	125
0186	" " "		Western vein of py & gn (20-30cm wide)	1050	1100	-	3400	5.49%	575



502045

045

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: P. Komysan

PROJECT: SPL 129

PROSPECT: STONEHAUGE

SAMPLE STORAGE REQ'D:

LABORATORY: RENISON

DATE DISPATCHED: SUMMER 83

1:250,000 SHEET:

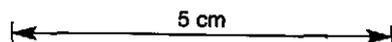
TYPE OF SAMPLE: ROCK

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES					
				Si	As	WO ₃	Ca	Pb	Zn
190	1300E	75S	of brown Fe rich siltstone - medium grained gty	<10	20	20	110	1250	190
0191	2000E	425N	of grey micaceous siltstone	210	100	10	10	240	450
0192	2000E	425N	of clay rich grey siltstone	210	40	10	410	10	10
0193	"	"	of quartzite	210	10	10	210	10	40
0194	SAS of 2000E	425N	of q. quartzite - some clay on bedding	210	10	10	210	210	150
2228	2000E	550S	of pale grey quartzite - rty dis. py - blk mineral	210	60	10	210	200	190
2229	"	"	Flt above 2228 of q. quartzite - greater % dis. py	210	10	10	210	100	130
2231	2500E	650S	of kaolinitized quartzite - silty ss. - gty vein	210	210	10	210	10	20
0200	8mW 1000E	080S	flat vein quartz & altered quartzite	40	1230	210	210	1850	10
2284	10mW 1000E	030S	Plat in prospect track ser'd siltstone - weathered veins	210	10	210	210	1800	210
2285	8mW 1100E	030S	Plat v. chert ser'd siltstone	210	210	210	210	20	210
2286	1100E	130S	prospect pit dump - brown weathered basalt	30	170	30	10	630	160
2287	APM 5,359,410 N	358,740 E	of quartz-feldspar porphyry, dis. py	60	30	30	10	100	70
2288	4mN 2000E	275S	of chert ser'd silty sandstone minor limst	210	210	210	210	50	210
2290	15mW 2000E	280S	sub of chert blt gty silty ss & minor limst.	210	210	210	210	30	210
2291	2100E	265S	of quartzite - minor py & limst	210	210	210	210	10	210
2284	4mE 2000E	255S	of chert silty s.s. ser'd.	210	210	210	210	30	210
2292	2500E	605N	dump sample, brn siltstone & gty vein	10	90	20	60	1380	120
2293	2500E	625N	of addit entrained, grey brn puffy clay zone in ss.	40	70	210	45	220	75



502046

046

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: P. KOMYSHAN

PROJECT: SPL 129

PROSPECT: STONEHENGE

SAMPLE STORAGE REQ'D:

LABORATORY: RENISON

DATE DISPATCHED: SUMMER 82

1:250,000 SHEET:

TYPE OF SAMPLE: Rock + soil + flc

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES									
				Sn	As	H ₂ O ₂	Cu	Pb	Zn	Au			
2294	Colony Mt Adit 45	Bottom adit	Dump - brn weathered breccia ± redd. qtz.	130	2290	20	100	4220	90				
2295	"	" "	o/c entrance brn weathered lim. st. siltstone	40	750	210	80	770	155				
2296	"	Top adit	Dump weathered, brecciated (bygossanous veins) siltstone	170	530	20	185	1050	360				
2297	"	" "	" " brn siltstone ± gossanous breccia	270	13720	80	285	2130	145	0.1			
2298	"	" "	" blue-red silicified ss. & veinlets qtz	30	510	210	115	1010	50				
2299	"	" "	o/c entrance brn weathered siltstone (claced)	50	990	10	95	790	50				
2300	"	Shaft	brn weathered slst.	150	2130	10	105	2450	110				
3029	1400 E	025 N	blk weathered rock	1.8	210	10	210	65	140	5			
3030	"	050 N	gray qtzite gravels	0.2	210	210	10	25	30	25			
3031	"	075 N	dk bl/gray weathered rock	0.6	210	210	210	25	180	25			
3032	"	100 N	tan " "	1.0	210	210	210	15	570	5			
3033	"	125 N	light gray " "	0.8	210	210	10	25	920	25			
3034	"	150 N	blue " "	1.0	210	210	10	25	70	25			
3035	"	175 N	tan " "	0.4	210	210	30	25	90	25			
3036	"	200 N	" " " "	0.7	210	210	10	25	90	25			
3037	"	225 N	gray " "	1.2	210	210	10	25	20	5			
3038	"	250 N	light tan " "	0.6	210	210	10	5	60	5			
3039	"	275 N	blue gray " "	0.8	210	210	10	5	10	25			
3040	"	300 N	" " " "	210	210	10	25	10	25				
3041	1550 E	50 S	gray siltstone / phyllite + brown clay	210	40	20	90	840	235				
3092	1595 E	00	quartz vein in black shale	210	210	10	120	350	60				

5 cm

502048

048

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: Pollock 14

PROJECT: SPL 2A
1:250,000 SHEET:

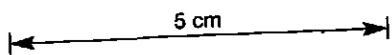
PROSPECT: Stonehenge Grid
TYPE OF SAMPLE:

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Cu	Pb	Zn	Mo	
0422	000	50S	B.R. clay black silkt 1.3m	30	20	10	70	140	190	<10	
0423		75S	B.R. silkt grey brn 0.7m	<10	<10	10	10	140	20	<10	
0424		100S	B.R. cream 1.0m	10	<10	10	100	160	260	<10	
0425		125S	" " clayey " 0.8m	10	<10	<10	60	590	120	<10	
0426		150S	" " " 1.0m	<10	<10	10	60	200	130	<10	
0427		175S	" " kalki 1.0m	<10	<10	10	70	150	150	<10	
0428		200S	" " " 0.9m	<10	<10	<10	80	110	140	<10	
0429	000	25S	" " silkt grey 0.8m	<10	<10	10	50	70	160	<10	
0430		00	" " grey-cream 0.8m	<10	<10	10	<10	200	20	<10	
0431		25.N	" " brn - cream 1.5m	<10	<10	<10	20	200	30	<10	
0432		50.N	" " grey graph silkt 1.5m	<10	40	20	<10	1250	<10	<10	
0433		75.N	soil grey brn. 1.2m	<10	<10	10	<10	1130	10	<10	
0434	200E	125N	BR? black silkt.? 1.5m	<10	<10	10	60	400	180	10	
0435		100N	BR grey-cream 0.4m	<10	<10	<10	<10	30	<10	10	
0436		75N	" " cream-brn silkt 1.5m	<10	<10	<10	<10	610	10	<10	
0437		50N	" " " 1.0m	<10	<10	<10	<10	70	10	<10	
0438		25N	" " " 1.2m	10	<10	10	<10	330	<10	<10	
0439		000	" " silkt grey graph 1.2m	<10	<10	<10	<10	180	<10	<10	
0440		25S	soil sieve 0.6m	10	<10	10	<10	30	10	<10	
0441		50S	" " " 0.6m	60	<10	<10	<10	<10	<10	<10	



502050

050

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *Pollock*

PROJECT: *SPL 28*
1:250,000 SHEET:

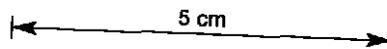
PROSPECT: *Shemelpe*
TYPE OF SAMPLE:

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Cu	Pb	Zn	Mo	
0442	200E	7SS	BR pale grey - green 1.3m	20	<10	10	<10	60	10	<10	
0443		100.S	" yel - grey green trem. calc. 1.0m	10	20	<10	50	70	170	<10	
0444		12SS	" brn - frit/SS* 0.6m	10	<10	10	20	620	60	<10	
0445		150.S	Kahki: clay. 0.8m	10	10	10	20	600	210	<10	
0446		17SS	BR Kahki: 0.3m	10	30	50	20	320	7600	<10	
0447		200.S	" yel-brw 0.5m	10	30	10	20	120	160	<10	
0448	400E	100.S	" cream - green 1.1m	10	<10	<10	20	140	160	<10	
0449		12SS	" brn - green 1.5m	<10	70	40	410	1720	3750	<10	
0450		150.S	" green + fossils. 1.0m	10	10	20	70	270	1070	10	
0451		17SS	" pale green 1.5m	10	<10	10	80	160	140	<10	
0452		200.S	" " 1.3m	10	<10	10	50	100	80	<10	
0453	400E	7SS	" dk brn 0.6m	<10	30	10	410	1950	630	40	
0454		50.S	BR? cream clayey 1.6m	<10	<10	10	410	30	20	<10	
0455		25SS	BR " s.c.kst. 1.3m	<10	<10	10	<10	20	10	40	
0456		00	" " 0.9m	<10	<10	<10	30	80	10	<10	
0457	400E	25N	" " 0.5m	<10	<10	<10	40	40	20	40	
0458		50N	" pale green - cream 1.5m	<10	<10	10	410	160	220	<10	
0459		75N	" grey s.c.kst. 0.5m	<10	<10	<10	<10	80	20	<10	
0460		100N	" " 1.5m	<10	<10	10	10	240	30	<10	
0461		125N	" " 0.5m	<10	<10	<10	50	130	30	<10	
0462		150N	" " 0.6m	<10	<10	10	<10	20	40	<10	



GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *Pottock's*

PROJECT: *SPL 129*

PROSPECT: *Stonehenge*

SAMPLE STORAGE REQ'D:

LABORATORY: *RENISON*

DATE DISPATCHED:

1:250,000 SHEET:

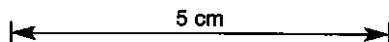
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Cu	Pb	Zn	Mo	
0463	400E	175N	BR grey silt 1.4m	<10	<10	10	10	40	30	10	
0464		200N	L gravel + brn crumb silt 1.1m	<10	<10	<10	50	160	<10	<10	
0465	600E	275N	BR pale grey phyllite 0.6m	<10	<10	<10	<10	<10	<10	<10	
0466		250N	clayey gravels 1.8m	10	<10	<10	10	60	30	<10	
0467		225N	" " 1.0m	<10	<10	<10	20	50	10	<10	
0468		200N	" " 1.4m	<10	310	<10	20	120	230	40	
0469		175N	" " 1.6m	<10	90	<10	10	190	240	<10	
0470		150N	BR black silt + gravels 0.2m	<10	<10	<10	<10	10	<10	<10	
0471		125N	" " " 0.3m	<10	40	10	60	90	22	<10	
0472		100N	clay, gravels 1.7m	<10	40	<10	20	50	220	<10	
0473		75N	BR pale green 1.6m	<10	50	20	10	140	1020	<10	
0474		50N	" " " 0.7m	<10	<10	<10	<10	10	<10	<10	
0475		25N	" grey crumb 0.8m	<10	<10	10	<10	20	20	<10	
0476		00	BR pale green 1.0m	<10	<10	10	40	20	30	<10	
0477		25.S	" " " 0.5m	<10	<10	10	10	20	60	<10	
0478		50.S	BR ?? grey clay 1.6m	<10	<10	10	190	30	190	<10	
0479		75.S	" " " " 2.0m	10	200	20	2000	380	120	<10	
0480		100.S	" pale green 0.5m	<10	<10	<10	40	30	220	<10	
0481		125.S	" " " 0.5m	<10	<10	10	50	20	90	<10	
0482		150.S	" " " 0.8m	<10	<10	10	50	20	120	40	
0483		175.S	" " " 0.6m	<10	<10	20	20	20	220	<10	



502052

052

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: Pollock Bros

PROJECT: SPL 129

PROSPECT: Stonehenge

SAMPLE STORAGE REQ'D:

LABORATORY: REMSON

DATE DISPATCHED:

1:250,000 SHEET:

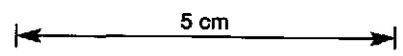
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Cu	Pb	Zn	Mg	
0484	600E	200S	BR pale green 1.6m	<10	<10	10	20	20	140	<10	
0485		225S	BR orange/bm clayey 1.4m	<10	20	10	30	30	20	<10	
0486		250S	BR siltst 0.5m	<10	<10	10	70	20	30	<10	
0487		275S	" dk grey - kahki siltst 0.3m	<10	<10	10	40	40	40	<10	
0488		300S	BR siltstone 0.2m	<10	<10	10	<10	<10	<10	<10	
0489	800E	200S	" grey 0.4m	<10	<10	<10	<10	20	<10	<10	
0490		225S	BR siltst black 0.5m	<10	<10	<10	<10	20	<10	<10	
0491		250S	" " " 0.4m	<10	<10	<10	<10	20	20	<10	
0492		275S	" kahki crumb. 0.5m	<10	<10	20	30	20	50	<10	
0493		300S	BR? grey-bm clayey 1.3m	<10	<10	10	90	40	80	10	
0494		325S	BR grey-green 0.5m	<10	<10	<10	30	50	60	<10	
0495		350S	BR? grey clay some gravel 1.0m	<10	20	10	70	230	190	<10	
0496		375S	clay s. 1.6m	<10	<10	10	20	100	120	<10	
0497		400S	BR grey silt + gravel 1.3m	<10	10	<10	40	130	150	10	
0498	800E	175S	BR yel-green-bm 1.2m	<10	<10	10	30	20	50	<10	
0499		150S	BR pale green - kahki 1.2m	<10	10	10	30	20	60	<10	
0500		125S	" pale green 1.5m	<10	20	10	40	20	1330	<10	
0601		100S	" " - ptz gravel 1.4m	<10	10	<10	10	30	90	<10	
0602		75S	" " " 1.1m	<10	<10	<10	80	20	130	<10	
0603		50S	ptz ptz-like gravel 0.5m	<10	<10	10	<10	<10	10	<10	
0604		25S	BR pale green 1.6m	<10	<10	20	20	170	870	<10	



502053

053

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *Redmond's*

PROJECT: *SRL 128*

PROSPECT: *Stonehenge*

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

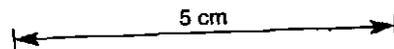
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Cu	Pb	Zn	Mo	
0605	800E	000	BR pale fne clay 1.5m	<10	<10	<10	100	110	70	<10	
0606		25N	BR? dk-pale brn crumb 1.2m	<10	<10	20	<10	100	20	<10	
0607		50N	BR cream sandy 1.0m	<10	<10	20	<10	40	<10	<10	
0608		75N	" " 0.6m	10	<10	10	<10	20	<10	40	
0609		100N	" " 0.5m	10	<10	10	<10	300	<10	<10	
0610		125N	" cream phyll 0.7m	<10	<10	10	<10	20	<10	<10	
0611		150N	BR black ± frags py, fibre 1.0m	760	2410	380	2090	104000	830	10	
0612		175N	" cream ptz.ve 0.5m	<10	<10	<10	<10	70	10	<10	
0613		200N	" " phyll 0.4m	10	<10	<10	20	620	10	<10	
0614		225N	" fny-brn phyll 0.8m	<10	<10	<10	<10	60	<10	<10	
0615		250N	" cream " 0.3m	<10	<10	<10	<10	80	<10	<10	
0616		275N	dk brn soil with L ptz frags 0.8m	10	<10	20	<10	40	<10	<10	
0617		300N	BR black silst 1.1m	<10	<10	10	<10	40	<10	<10	
0618		325N	" " 0.8m	<10	<10	10	<10	130	<10	<10	
0619	900E	375N	BR cream phyll 1.3m	<10	<10	20	<10	260	10	<10	
0620		350N	" " 1.4m	<10	10	10	20	60	10	<10	
0621		325N	BR? orange/yel clayey 1.6m	20	30	10	90	120	50	40	
0622		300N	BR cream brn phyll 1.4m	10	10	10	170	40	40	10	
0623		275N	" pale fny " 0.9m	10	<10	10	<10	20	<10	<10	
0624		250N	" black graph silst 1.4m	<10	<10	10	10	170	10	<10	
0625		225N	" cream brn phyll 1.5m	20	230	20	30	1670	20	10	



502054

054

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: Pollock Bros

PROJECT: SOL 129

PROSPECT: STONEHENGE

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

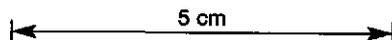
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES								
				Sn	Pb	WO ₃	Cu	Pb	Zn	Mg		
0626	900E	200N	BR grey brn phyll 0.4m	10	<10	20	<10	180	<10	<10		
0627		175N	BR? brn sandy soil 0.6m	10	<10	20	<10	160	<10	<10		
0628		150N	BR cream brn phyl/pfjck 0.4m	<10	<10	10	<10	40	<10	<10		
0629		125N	" grey-cream phyll 0.7m	<10	<10	10	<10	10	<10	<10		
0630		100N	" silty 1.4m	10	<10	<10	10	30	<10	<10		
0631		75N	" cream - pfjck 0.5m	20	<10	10	<10	<10	<10	<10		
0632		50N	" " " 0.4m	<10	<10	10	<10	<10	<10	<10		
0633		25N	" grey-brn phyl 1.4m	10	<10	20	<10	330	<10	<10		
0634		00	MAY Bc Bedock- cream/brn clay 1.4m	<10	<10	10	<10	70	<10	<10		
0635	1000E	00	BR cream sandy 0.4m	10	<10	10	<10	<10	<10	<10		
0636		25.S	" " " 1.0m	<10	10	10	<10	320	<10	<10		
0637		50.S	Clay white cream red mottled 1.5m	<10	<10	<10	<10	40	<10			
0638		75S	BR grey green 1.5m	<10	<10	20	60	60	210			
0639		100S	NOT BR cream brn clay 1.5m	<10	10	10	120	360	20			
0640		125.S	BR green clayey chip	<10	70	10	210	110	610			
0641		150.S	" " " "	10	880	20	180	3160	260	<10		
0642		175.S	BR green 1.5m	<10	<10	10	30	50	210	<10		
0643		200.S	BR silty dk grey 1.4m	10	30	10	80	90	590	<10		
0644		225.S	" ? " " clay 1.7m	10	20	10	70	100	300	40		
0645		250.S	" grey green 1.5m	<10	80	10	40	560	430	20		
0646		275.S	" " " " 1.4m	<10	80	20	40	80	260	40		



502055

055

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: Pollock Bros

PROJECT: SL 129

PROSPECT: Stonehenge

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

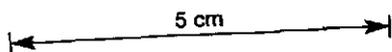
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	W ₀₃	Cu	Pb	Zn	Mn	
0647	1600E	300S	BR grey 1.1m	<10	30	10	30	70	70	<10	
0648		325S	" cream sandy 0.5m	<10	<10	<10	<10	90	<10	<10	
0649		350S	" silty black 1.6m	<10	40	20	30	290	290	<10	
0650		375S	" grey green pyrite frags 1.4m	<10	20	20	80	60	150	<10	
0651		400S	" brn kaolki clayey 0.6m	<10	<10	10	60	60	30	<10	
0652		425S	" cream-white pit 0.2m	<10	<10	<10	<10	<10	<10	<10	
0653		450S	" r. l. brn 0.6m	<10	<10	10	20	30	10		
0654		475S	" 1 kaolki 0.6m	<10	<10	10	70	30	110	<10	
0655		500S	" dk pale grey clayey + pyrite? 1.5m	20	25	10	190	50	90	<10	
0656	1200E	600S	BR crumb brn 0.7m	<10	<10	10	10	20	50	<10	
0657		575S	grey-green clay not BR 1.7m	<10	10	20	50	70	190	<10	
0658		550S	" " " " 1.8m	<10	<10	20	120	80	200	<10	
0659		525S	BR green clayey 1.5m	10	<10	10	110	710	860	<10	
0660		500S	" brn-green 0.3m	<10	<10	10	<10	20	20	<10	
0661		475S	" brn crumb 0.8m	<10	<10	10	40	60	30	<10	
0662		450S	" " " 0.2m	<10	<10	10	50	100	70	<10	
0663		425S	" ? kaolki some silty frags 0.7m	<10	<10	10	10	110	50	<10	
0664		400S	" dk grey 0.5m	<10	<10	10	<10	30	10	<10	
0665		375S	" " " 0.4m	<10	<10	20	20	980	40	<10	
0666		350S	chip sample black silty 0.1m	<10	10	10	260	270	20	<10	



502056

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: **Pollock Bros**

PROJECT: **SRL 129**

PROSPECT: **Stoncherfe**

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

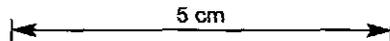
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES										
				Sn	As	WO ₃	Cu	Pb	Zn	Mo				
0667	1200 E	325 S	NO SAMPLE MINE DUMP											
0667		300 S	Not BR pale brn - clayey 1.5m	<10	<10	<10	10	70	20	<10				
0668		275 S	" " " " 1.5m	<10	<10	<10	10	90	<10	<10				
0669		250 S	" " " " 1.5m	<10	10	10	130	890	10	<10				
0670		225 S	BR pale green clayey 1.5m	10	<10	10	90	70	90	<10				
0671		200 S	" " " " 1.5m	10	<10	<10	140	210	100	<10				
0672		175 S	" " " " 1.5m	<10	<10	<10	100	50	100	<10				
0673		150 S	BR? grey green clay 1m	<10	<10	10	350	860	70	<10				
0674		125 S	BR pale green clayey 1.5m	10	10	10	40	310	230	<10				
0675		100 S	" dk grey green 1.5m	10	10	10	30	1410	590	<10				
0676		75 S	Not BR pale grey green clay 1.6m	10	<10	20	2710	250	20	<10				
0677		50 S	" " clay with fine gravel 1.5m	<10	<10	10	50	120	20	<10				
0678		25 S	dk brn sandy scree soil 0.7m	<10	<10	10	20	150	20	<10				
0679		000 S	Not BR clay & gravel 1.5m	10	110	40	20	20	3590	<10				
0680		25 N	BR dk grey siltst 1.5m	<10	10	10	20	130	330	<10				
0681		50 N	" cream-grey phyll 1.0m	<10	<10	10	<10	450	10	<10				
0682		75 N	" grey phyll 1.3m	<10	<10	10	<10	80	<10	<10				
0683		100 N	" " " 0.6m	<10	<10	<10	<10	30	<10	<10				
0684		125 N	" " " 0.8m	<10	<10	20	<10	90	<10	10				
0685		150 N	Scree soil - sh phyll 0.4	<10	<10	10	<10	<10	<10	<10	<10			
0686		175 N	BR grey phyll 1.1m	<10	<10	<10	<10	20	<10	<10				



502057

059

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *Poltack Bros*

PROJECT: *SPL 129*

PROSPECT: *Stonehenge Grid*

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

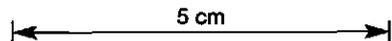
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES								
				Sn	As	WO ₃	Cu	Pb	Zn	Mo		
0687	1200E	200N	BR dk grey phyl 1.0m	<10	<10	<10	<10	<10	<10	<10	110	
0688		225N	" cream 0.8m	<10	<10	10	<10	70	<10	<10	110	
0689		250N	" grey 0.4m	10	<10	<10	<10	90	<10	<10		
0690		275N	" kalki 0.4m	10	40	10	30	50	<10	<10		
0691		300N	" grey 0.6m	20	<10	10	<10	30	<10	<10		
0692		325N	orange-cream clay WBR?? 1.5m	20	<10	10	<10	160	<10	<10		
0693		350N	BR dk grey silt 0.8m	<10	<10	10	<10	120	<10	<10		
0694		375N	cream-orange brn clay WBR?? 1.6m	30	60	50	30	300	10	10		
0695		400N	BR cream phyll 0.7m	<10	<10	10	<10	20	<10	10		
0696		425N	BR dk grey - kalki phyll 0.8m	<10	<10	<10	20	290	30	<10		
0697		450N	" " 0.7m	10	<10	<10	10	20	<10	<10		
0698		475N	BR?? dk-cream brn sandy 0.6m	10	<10	10	<10	50	<10	<10		
0699	1100E	450N	BR kalki - grey phyll 1.2m	30	30	20	20	170	10	<10		
0700		425N	BR?? Brn fine framed with well formed pt xvals graph? 0.3m	140	20	50	10	160	20	<10		
0701		400N	BR silt dk 0.9m	<10	<10	<10	<10	50	30	<10		
0702		375N	BR grey phyll 0.8m	<10	<10	10	<10	60	<10	<10		
0703		350N	" yel brn - grey phyll 1.5m	<10	20	10	20	70	<10	<10		
0704		325N	BR? clay orange-brn-green mottled 1.5m	30	100	70	30	190	30	<10		



502058

057

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: *Pollock Bros*

PROJECT: *SPL 129*

PROSPECT: *Stowhenfe*

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

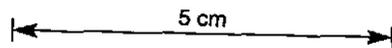
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	Pb	WO ₃	Cu	Pb	Zn	Mo	
0705	1100E	300N	BR pale kahki phyll 0.7m	<10	10	10	20	70	<10	20	
0706		275N	" frag " 0.4m	10	<10	20	<10	50	<10	20	
0707		250N	" dk frag " 0.5m	<10	<10	10	<10	130	<10	20	
0708		225N	" frag - cream " 0.6m	<10	<10	10	<10	210	<10	20	
0709		200N	" kahki - frag phyll 0.7m	<10	<10	20	<10	80	<10	20	
0710		175N	BR frag - cream/wage phyll 0.8m	<10	20	10	<10	150	<10	20	
0711		150N	Gravel ptz ptzike 0.7m	<10	<10	10	<10	100	<10	20	
0712		125N	" " " 0.4m	10	<10	10	<10	<10	<10	20	
0713		100N	BR brn - frag phyll 0.6m	<10	<10	10	<10	60	<10	20	
0714		75N	Gravel ptz ptzike 1.0m	<10	<10	10	<10	10	<10	20	
0715		50N	" " " 0.7m	<10	<10	20	<10	<10	<10	20	
0716		25N	BR phyll frag 0.7m	<10	<10	10	<10	30	<10	20	
0717		00	" brn - frag phyll 1.6m	<10	<10	10	<10	110	<10	20	
0718	1000E	25N	BR phyll frag 0.4m	<10	<10	<10	<10	10	<10	20	
0719		50N	Gravel ptz ptzike 0.5m	<10	<10	10	<10	<10	<10	20	
0720		75N	" " " + walth phyll 0.4m	<10	<10	20	<10	10	<10	20	
0721		100N	BR phyll frag - kahki 0.3m	<10	40	10	<10	20	<10	20	
0722		125N	" " " 0.4m	<10	<10	10	<10	20	<10	20	
0723		150N	" " frag 0.7m	20	30	20	20	50	<10	20	
0724		175N	WBR?? cream - yel brn clay 1.6m	20	90	10	80	40	<10	20	



502059

056

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: Pollock Bros

PROJECT: SFL 129

PROSPECT: Stonehenge

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	Pb	WO ₃	Cu	Pb	Zn	MO	
0725	1000E	200N	BR phy grey 1.2m	<10	<10	<10	<10	30	<10	<10	
0726		225N	BR? brn - black clay 1.2m (minor pyrite?)	<10	<10	20	50	50	10	10	
0727		250N	BR dk grey silt + minor gravel 0.4m	<10	<10	10	20	110	<10	<10	
0728		275N	BR grey phyll chip sample	<10	<10	10	<10	140	10	<10	
0729		300N	BR? yel brn fine clay 1.5m	<10	<10	20	<10	40	20	<10	
0730		325N	BR brn 0.6m	<10	<10	<10	<10	40	<10	<10	
0731		350N	Not BR dk brn fine sandy gravel 0.5m	<10	<10	20	<10	20	<10	<10	
0732		375N	" " " " 0.5m	<10	<10	20	<10	70	<10	<10	
0733		400N	" " " " 0.4m	<10	<10	10	<10	70	<10	<10	
0734	1300E	500N	" " " " 0.4m	<10	<10	10	<10	70	<10	<10	
0735		475N	BR cream phyll 0.6m	<10	<10	10	<10	<10	<10	<10	
0736		450N	" pale kahki - grey phyll 0.5m	10	<10	10	<10	<10	<10	<10	
0737		425N	" cream phyll + g/cks 0.4m	10	<10	10	<10	<10	<10	<10	
0738		400N	" kahki - grey phyll 0.5m	<10	10	10	20	60	30	<10	
0739		375N	" " " (talcy) 0.4m	10	10	10	20	60	30	<10	
0740		350N	" " " " 0.7m	<10	<10	10	10	120	<10	<10	
0741		325N	Not BR pale brn sandy gravel 0.6m	10	<10	10	10	120	<10	<10	
0742		300N	BR black graph phyll 0.6m	<10	<10	<10	10	20	<10	<10	
0743		275N	" pale grey phyll 0.7m	<10	<10	10	<10	10	<10	<10	

5 cm

502060

090

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY: _____

PROJECT: SPL 129

PROSPECT: Stonehenfe

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

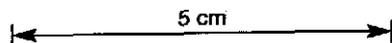
TYPE OF SAMPLE Soil Bedrock

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES										
				Sn	As	WO ₂	Co	Pb	Zn	Mn				
0744	1300E	250N	BR grey-black graph phyll 0.7m	<10	<10	10	<10	60	<10	<10				
0745		225N	BR " " 0.6m	<10	<10	10	<10	60	<10	<10				
0746		200N	" pale kahki phyll 0.4m	10	<10	10	<10	190	<10	<10				
0747		175N	" ? grey phyll - white 0.7m	10	<10	10	<10	240	<10	<10				
0748		150N	" pale kahki phyll 1.0m	10	<10	10	<10	220	<10	<10				
0749		125N	" " - grey phyll 1.2m	<10	<10	20	10	30	<10	<10				
0750		100.N	" grey-black graph phyll 1.2m	10	<10	20	<10	40	<10	<10				
0751		75.N	" " " 0.9m	<10	<10	10	<10	30	<10	<10				
0752		50.N	Sand ~ qtz. gravel 0.3m	<10	<10	<10	<10	200	<10	<10				
0753		25N	BR grey-black phyll 0.8m	<10	10	20	80	1740	280	<10				
0754		000	" cream phyll. 1.0m	10	<10	10	<10	200	<10	<10				
0755	1400E	000	BR? grey brn clay 1.4m	<10	10	10	80	1670	250	<10				
0756		25.S	Cream brn sandy soil 0.7m	<10	<10	10	<10	110	<10	<10				
0757		50.S	" " " + gravel 0.3m	<10	<10	10	<10	40	<10	<10				
0758		75.S	" " " " 1.3m	10	<10	50	10	1270	<10	<10				
0759		100.S	" " " " 1.4m	<10	<10	10	<10	370	<10	<10				
0760		125.S	BR + phyll BR ?? pale cream-green phyll 1.2m	<10	<10	10	<10	470	<10	<10				
0761		150.S	" " " " 0.7m	<10	<10	10	<10	220	<10	<10				
0762		175.S	" " " " 0.6m	<10	<10	10	<10	100	<10	<10				
0763		200.S	" Grey phyll 1.2m	<10	<10	10	<10	240	<10	<10				
0764		225.S	" cream brn phyll 0.7m	<10	<10	<10	<10	120	210	<10				



502061

061

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PORTLAND CEMENT

PROJECT: SPL 129
1:250,000 SHEET:

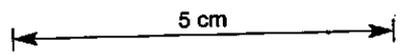
PROSPECT: Stonehenge
TYPE OF SAMPLE: Soil/Rock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₂	Cu	Pb	Zn	Mo	
0765	1400E	250S	BR?? cream bn sandy 0-7m	<10	<10	10	<10	40	<10	<10	
0766		275S	" " " " 0-5m	<10	<10	10	<10	20	<10	<10	
0767		300S	BR cream bn weath phyll 1.2m	<10	<10	<10	<10	30	<10	10	
0768		325S	Not BR sandy gravel 0-7m	<10	<10	10	<10	30	<10	<10	
0769		350S	" " " " 0-3m	<10	<10	10	<10	30	<10	<10	
0770		375S	chip sample 0-2m	<10	<10	<10	<10	10	<10	<10	
0771		400S	Not BR kahki clay 1.6m	<10	50	50	190	5000	620	<10	
0772		425S	" " clay grey-green 1.5m	<10	10	10	230	60	920	<10	
0773		450S	" " clay & chert frags 1.4m	<10	40	20	110	120	310	<10	
0774		475S	" " grey green clay / fine gravel 1.5m	<10	40	20	70	40	730	<10	
0775		500S	" " " " 1.5m	<10	20	30	660	400	1900	<10	
0776		525S	Possibly BR kahki clay 1.4m	<10	50	20	270	600	370	<10	
0777		550S	Not BR grey clay 1.5m	<10	30	30	210	920	820	<10	
0778		575S	" " " " 1.5m	<10	<10	20	370	270	1560	<10	
0779		600S	" " " " 1.4m	<10	<10	20	140	110	240	<10	
0780		625S	" " " " 1.5m	<10	<10	10	100	50	420	<10	
0781		650S	WBR yel-orange 1.4m	<10	<10	10	120	40	70	<10	
0782		675S	" grey 0.8m	<10	<10	<10	<10	40	20	<10	
0783		700S	" " " " 0.6m	<10	<10	20	120	700	20	<10	
0784	1600E	750S	" dark grey 0.3m	<10	20	10	120	2420	40	<10	
0785		775S	" grey 0.3m	<10	<10	10	60	150	40	<10	



502062

062

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: SPL 129

PROSPECT: Stonechange Grid

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

TYPE OF SAMPLE: Soil Bedrock

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION		ANALYSES							
					Sn	As	WO ₃	Cu	Pb	Zn	Mo	
0786	1600E	800.S	WBR fry	0.5m	<10	<10	<10	20	50	20	<10	
0787		825.S	" "	0.3m	<10	<10	10	<10	50	20	<10	
0788		850.S	" "	0.5m	<10	<10	10	90	10	20	<10	
0789		875.S	Nak BR dk kaolki gravel	0.8m	<10	170	170	370	12000	19400	<10	
0790		900.S	" " gravel - organic	1.7m	<10	240	40	500	17000	11500	<10	
0791	1600E	725S	Chip sample		<10	30	20	120	2930	350	<10	
0792		70.S	" "		<10	<10	10	:	700	50	<10	
0793		675S	WBR pale tm	1.8m	<10	120	20	150	1090	50	<10	
0794		650.S	" " fry	0.5m	<10	<10	<10	<10	110	40	<10	
0795		625S	NO SAMPLE MINE DUMP									
0795		600.S	Nak BR fry clay - gravel	0.8m	<10	40	20	90	180	20	<10	
0796		575S	Chip sample		<10	<10	10	20	40	30	<10	
0797		550.S	" "		<10	<10	<10	10	10	10	<10	
0798		525S	WBR dk fry	1.0m	<10	630	10	80	120	50	<10	
0799		500S	Nak BR fry gravel	0.4m	<10	<10	10	30	10	10	<10	
0800		475S	WBR fry	0.6m	<10	<10	20	40	40	20	<10	
0801	1600E	450S	Nak Blue grey.	7m	<10	<10	20	150	30	10	<10	
0802		425S	Bed rock - chip sample.		<10	<10	10	50	30	10	<10	
0803		400S	Brown WBR	9m	<10	<10	10	<10	20	10	<10	
0804		375S	fry W.B. rocks.	8m	<10	<10	10	80	80	10	<10	
0805		350S	" " "	5m	<10	<10	10	<10	<10	<10	<10	

5 cm

502063

065

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: *SPL. 129*

PROSPECT: *Stonehenge*

SAMPLE STORAGE REQ'D:

LABORATORY:

COLLECTED BY:

1:250,000 SHEET:

TYPE OF SAMPLE: *Soil bedrock*

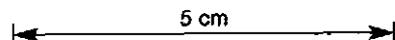
SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	Pb	VAR ₂	Cu	Pb	Zn	Mo	
0806	1600E	325S	Brown clayey gravels. 1.2m.	<10	<10	20	100	100	10	<10	
0807		200S	Grey w. b. rocks .6m.	<10	<10	20	<10	40	10	10	
0808		275S	" " " " 1.0m.	<10	<10	50	<10	10	<10	10	
0809		250S	" " " " 1.0m.	<10	<10	10	<10	10	10	<10	
0810		225S	Blue grey w. b. rocks. .7m.	<10	<10	10	<10	220	<10	<10	
0811		200S	" " " " .4m.	<10	<10	10	<10	280	10	10	
0812		175S	grey shaly sample. 1.2m	<10	<10	10	30	40	<10	10	
0813		150S	Black w. b. rocks 1.0m	<10	<10	10	50	40	10	10	
0814		125S	" " " " 1.1m.	170	20	20	150	670	50	50	
0815		100S	" " " " .9m	<10	50	10	270	250	50	30	
0816		750S	Grey sand/gravel Not BR 1.6m	<10	<10	<10	<10	<10	<10	10	
0817		50.S	Brn " " 1.4m	<10	<10	10	90	110	10	10	
0818		25.S	DK grey WBR 0.4m	<10	20	10	190	480	20	30	
0819		00	Grey " 0.6m	<10	<10	10	250	420	30	10	
0820		25N	Brn clay gravel not BR 1.6m	<10	<10	10	30	280	20	<10	
0821		50 N	" " " "	<10	20	20	340	3600	20	10	
0822		75N	Yellow WBR ? 1.5m	10	10	10	100	400	30	10	
0823		100N	" " " " 1.4m	<10	130	20	190	170	130	10	
0824		125N	Grey " 0.5m	<10	<10	10	<10	130	10	10	
0825		150N	" " " " 1.0m	<10	<10	10	60	890	10	10	
0826		175N	Black-grey WBR 0.6m	<10	<10	10	<10	140	<10	40	



502064

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PULTOOK GROS.

COLLECTED BY:

PROJECT: *SPL 129*

PROSPECT: *Stone Henge*

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

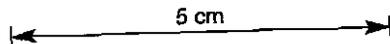
TYPE OF SAMPLE: *Soc/Badrak*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION		ANALYSES							
					Sn	As	WO ₃	Cu	Pb	Zn	Mo	
0827	1600E	200N	Grey WBR	1.0m	410	<10	10	<10	830	<10	<10	
0828		225.N	" "	0.8m	410	<10	10	<10	110	<10	<10	
0829		250.N	Pale brn "	0.5m	410	<10	10	<10	90	10	<10	
0830		275.N	Chip sample "	0.3m	410	<10	<10	60	20	<10	<10	
0831		300.N	Grey WBR	0.7m	410	<10	10	<10	40	<10	<10	
0832		325.N	DK grey "	0.5m	40	<10	20	1160	100	10	<10	
0833		350.N	" "	1.3m	410	<10	20	10	430	20	<10	
0834		375.N	Grey "	0.5m	40	10	20	2170	2460	10	<10	
0835		400.N	" "	0.6m	440	<10	10	<10	210	<10	<10	
0836		425.N	" "	0.7m	410	<10	10	<10	20	<10	<10	
0837		450.N	" "	0.4m	410	<10	<10	<10	10	<10	<10	
0838		475.N	" "	0.5m	410	<10	40	<10	10	<10	10	
0839		500.N	Pale brn WBR	0.5m	440	<10	10	<10	20	<10	10	
0840		525.N	" "	0.3m	410	<10	10	<10	10	10	<10	
0841		550.N	Grey WBR	0.6m	410	<10	10	<10	10	10	<10	
0842	1500E	550.N	Grey clay gravels	1.4	440	<10	10	60	20	10	10	
0843	1500E	525.N	" w/rocks	7	410	<10	20	<10	10	10	<10	
0844	-	500.N	" "	5	410	<10	10	<10	30	10	<10	
0845	-	475.N	" /tan "	6	410	<10	20	30	30	10	20	
0846	-	450.N	grey "	6	440	<10	10	<10	140	10	<10	
0847	-	425.N	" "	8	410	<10	20	150	70	10	<10	



502065

063

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

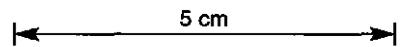
COLLECTED BY: *[Signature]*
 DATE DISPATCHED:
 DATE RECEIVED:

PROJECT: *SPH 129*
 1:250,000 SHEET:

PROSPECT: *Stone Henge*
 TYPE OF SAMPLE: *Soil/Bedrock*
 SAMPLE STORAGE REQ'D:
 SAMPLE PREP. REQ'D:

LABORATORY:
 ANALYSIS REQ'D:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Cu	Pb	Zn	Mo	
0848	1500E.	400N	Grey clay 1.6	40	40	30	110	390	70	20	
0849		375N	Black w/rocks .6	40	160	30	20	1510	440	20	
0850		350N	Dark grey - - 1.0	40	40	30	30	220	10	40	
0851		325N	Rock chip	<10	<10	<10	90	20	10	40	
0852		300N	Grey w/rocks .5	40	<10	10	<10	40	10	40	
0853		275N	" " .4	40	<10	10	<10	110	10	<10	
0854		250N	Dark - - - .7	40	<10	20	<10	650	10	<10	
0855		225N	Cream - - - 1.1	40	40	20	<10	110	10	<10	
0856		200N	- /grey - - .8	40	40	20	<10	10	10	40	
0857		175N	Grey - - - .6	40	<10	10	<10	10	10	<10	
0858		150N	Dark - - - 1.0	40	<10	10	<10	80	10	<10	
0859		125N	Rock chip	40	<10	<10	150	70	<10	<10	
0860		100N	Can / brown w/rocks .6	40	<10	10	<10	150	10	<10	
0861		75N	- cream - - .8	40	<10	10	10	80	10	<10	
0862		50N	- clayey - - 1.6	40	10	10	40	210	20	<10	
0863		25N	" " - - 1.5	10	20	10	220	240	70	50	
0864		B line	Grey sandy gravels? 1.4	<10	30	30	<10	410	10	40	
0865	1700E.	100S	Brown sandy w/rocks .5	40	40	40	<10	10	10	40	
0866		75S	" " - - 1.2	40	<10	20	<10	50	10	40	
0867		50S	- /grey - - .8	40	40	40	800	70	10	40	



502066

064

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: *SPH 129*
1:250,000 SHEET:

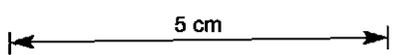
PROSPECT: *Stone Stage*
TYPE OF SAMPLE: *Bedrock*

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	Pb	Cu	Pb	Zn	Mo	
0869	1700E	25S	Grey clay w/ rock 1.7	40	10	30	<10	2820	10	40	
0869		3 line	Brown w/ rock .7	410	<10	10	<10	780	10	40	
0870		25N	Clean grey w/ rock 1.6	410	410	10	<10	50	10	410	
0871		50N	Brown w - ? .3	410	410	10	<10	650	10	410	
0872		75N	Grey - - .2	410	410	410	180	60	<10	410	
0873		100N	tan - - .8	410	<10	10	<10	<10	<10	410	
0874		to 125N	grey - - .9	410	410	410	80	10	<10	410	
0875		150N	- - - 1.2	410	410	410	<10	<10	<10	410	
0876		175N	- - - 1.6	410	410	410	<10	40	<10	410	
0877		200N	- - - 1.4	410	410	10	<10	10	<10	410	
0878		225N	yellow w/ rock 1.7	410	410	20	120	120	10	410	
0879		250N	tan - - 1.0	410	<10	10	140	20	<10	410	
0880		275N	black - - 1.2	410	410	10	80	280	10	10	
0881		300N	grey w/ rock 1.0	410	<10	10	<10	<10	10	410	
0882		325N	- - - 1.2	410	410	10	430	50	<10	410	
0883		350N	- - - 1.0	410	410	410	<10	40	<10	410	
0884		375N	- - - 1.2	410	410	10	230	60	<10	410	
0885		400N	- - - .8	410	410	<10	220	100	<10	410	
0886		425N	- / brown - - .8	410	410	410	100	160	<10	410	
0887		450N	- - - .7	410	410	10	<10	20	<10	<10	
0888		475N	- - - 1.0	410	410	10	<10	40	<10	<10	



502067

067

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

REF: 502068

PROJECT: SPL 129

PROSPECT: Stonehenge Grid

SAMPLE STORAGE REQ'D:

LABORATORY: AEC/150 W

COLLECTED BY: [unclear]

1:250,000 SHEET:

TYPE OF SAMPLE: Soil/Bedrock

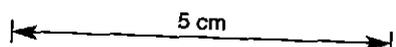
SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Cu	Pb	Zn	Mo	
0889	1700E	500N	Rocks chip grey sand 1.2	10	<10	10	<10	20	<10	<10	
0890		525N	grey sandy w/rock 0.8	<10	<10	10	<10	180	<10	<10	
0891		550N	" " " 1.2	<10	<10	10	430	70	<10	<10	
0897	1800E	675N	grey w/rock 1.0	<10	<10	20	<10	10	<10	<10	
0896		650N	" " " 0.8	<10	<10	<10	240	30	<10	<10	
0895		625N	" gravels 0.3	<10	<10	<10	<10	<10	<10	<10	
0894		600N	" " " 0.5	<10	<10	10	130	20	<10	10	
0893		575N	Rocks chip 0.8	<10	<10	20	90	40	10	<10	
0892		550N	grey w/rock 0.8	<10	<10	<10	<10	30	<10	<10	
0976			Grey WBR 0.3m	<10	<10	10	10	20	<10	<10	
0977		500N	" " 0.3m	<10	<10	10	<10	20	<10	<10	
0978			" " 0.6m	<10	50	40	60	5700	<10	<10	
0979		450N	" " 0.6m	<10	50	40	130	5900	<10	<10	
0980			" " 0.6m	<10	<10	10	<10	70	<10	<10	
0981		400N	" " 1.1m	<10	<10	10	<10	70	<10	<10	
0982			" " 1.0m	<10	<10	10	<10	360	<10	<10	
0983		350N	Pale bn WBR 0.6m	<10	<10	10	<10	70	<10	<10	
0984			Chip sample 0.5m	<10	<10	20	<10	<10	<10	<10	
0985		300N	Grey sandy gravel 0.5m	<10	<10	20	<10	<10	<10	<10	
0986			Pale bn WBR 0.5m	<10	<10	10	20	<10	<10	<10	



502068

068

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: *SPL 129*

PROSPECT: *Stonehenge Grid*

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

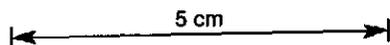
TYPE OF SAMPLE: *Soil/Bedrock*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES								
				Sn	As	VO ₂	Cu	Pb	Zn	Mo		
0987	1800E	250N	Yell brn WBR? 0.3m	<10	<10	10	10	<10	<10	<10		
0988			Yell brn WBR? 1.04m	<10	<10	20	10	40	<10	<10		
0989		200N	White ptz sand + gravel 0.4m	10	<10	10	160	20	<10	<10		
0990			DK brn organic soil + gravel 0.3m	<10	<10	<10	50	10	<10	<10		
0991		150N	Light brn WBR? 1.05m	<10	20	20	10	850	<10	<10		
0992			Black WBR chip sample	<10	10	40	90	130	90	20		
0993		100N	" " + some gravel 0.6m	40	<10	<10	70	140	90	20		
0994			Qtz gravel + possible BR 0.5m	<10	<10	20	<10	10	<10	<10		
0995		50N	Brn ptz sand + gravel 0.5m	<10	<10	10	<10	10	<10	<10		
0996			" " " 0.7m	<10	<10	10	10	10	<10	<10		
0997	1800E	000	Grey " " " 0.8m	<10	<10	10	10	10	<10	<10		
0998			" WBR 0.9m	<10	<10	10	<10	60	<10	<10		
0999		50.S	" " " 0.9m	<10	<10	20	<10	60	<10	<10		
1000			Brn " " 0.8m	40	<10	10	10	120	10	<10		
1401		100S	Grey WBR 1.0m	<10	<10	10	440	80	<10	<10		
1402			" " " 0.7m	<10	<10	10	350	30	<10	<10		
1403		150S/100S	" " " 0.5m	<10	<10	10	280	50	<10	<10		
1404			Chip sample	<10	<10	10	250	30	<10	<10		
1405		200.S	" " " "	<10	40	10	260	40	<10	40		
1406			" " " "	<10	<10	<10	240	30	<10	<10		
1407		250.S	Grey WBR 0.5m	<10	<10	10	490	50	<10	<10		



502069

069

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT *SR 129*

PROSPECT *Stonehenge*

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

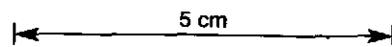
TYPE OF SAMPLE: *Soil/Bedrock*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Ca	As	NO ₃	Cu	Pb	Zn	Mo	
1408	1800E	275S	Chip sample	210	210	210	210	50	<10	210	
1409		300S	"	200	210	10	130	30	<10	210	
1410			Qtz phzite bedrock 0.4m	200	210	<10	310	40	<10	210	
1411		350S	clayey gravel 0.6m	210	210	<10	300	80	<10	210	
1412			coarse gravel 0.3m	210	210	10	240	20	<10	210	
1413		400S	Green / brn phyll 0.4m	210	210	10	210	20	<10	210	
1414			Weather phzites 0.2m	210	210	10	400	30	<10	210	
1415		450S	" 0.2m	210	210	10	310	20	<10	210	
1416			" 0.3m	210	210	10	190	10	<10	210	
1417		500S	Qtz phzite gravel 0.3m	20	210	<10	90	<10	<10	210	
1418			Grey brn WBR 0.2m	20	210	<10	160	10	<10	<10	
1419		550S	Grey " 0.2m	210	210	10	100	<10	<10	<10	
1420			" 0.4m	210	210	<10	120	10	<10	210	
1421		600S	DK grey " 0.3m	210	210	10	480	80	<10	210	
1422			Grey phz phzite gravel 0.4m	<10	210	<10	90	20	<10	10	
1423		650S	Black WBR (sample in water run) 0.5m	10	210	10	200	280	<10	<10	
1424			DK brn WBR chip	20	<10	10	70	20	<10	<10	
1425		700S	Grey-white sps 0.3m	210	<10	10	190	430	<10	<10	
1426			DK grey WBR 0.4m	210	210	10	200	20	<10	<10	
1427		750S	" " "	210	210	20	140	50	<10	<10	
1428			Chip sample (old trench)	210	210	210	70	30	<10	<10	



502070

070

POSITIVE PROG.

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: SPL BR

PROSPECT: Stonehenge Grid SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

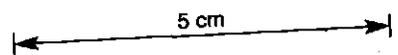
1:250,000 SHEET:

TYPE OF SAMPLE Soil/Bedrock SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Cu	Pb	Zn	Mo	
1430	2000E	750S	Brn WBR 0.4M	<10	10	20	70	160	160		
1431			" " 0.5M	<10	<10	<10	150	20	<10		
1432		700S	Grey brn WBR 0.6M	<10	<10	10	70	10	<10		
1433			Qty gravel 0.6M	<10	<10	<10	130	10	<10		
1434		650S	" " 0.5M	<10	<10	10	70	10	<10		
1435			Grey WBR 0.5M	<10	<10	10	70	10	<10	10	
1436		600S	Qty white gravel 0.3M	<10	<10	<10	50	20	<10	<10	
1437			Chip sample	<10	<10	<10	90	70	<10	10	
1438		550S	Grey WBR 0.3M	10	<10	10	60	10	<10	<10	
1439			Qty gravel 0.4M	<10	<10	10	80	10	<10	<10	
1440		500S	Chip sample in ck	10	<10	10	30	20	20	<10	
1441			" "	<10	<10	10	110	20	<10	<10	
1442		450S	" " NB copper wire	<10	<10	10	80	20	<10	<10	
1443			" " between 450-425S	<10	<10	40	20	10	<10	10	
1444		400S	" "	<10	<10	10	30	10	<10	<10	
1445			Qty gravel 0.4M	<10	90	60	30	10	<10	<10	
1446		350S	Grey brn WBR? 0.4M	30	70	10	120	20	<10	10	
1447			Qty gravel 0.5M	10	<10	10	80	10	30	<10	
1448		300S	Grey WBR 0.6M	<10	<10	<10	100	10	<10	<10	
1449			Chip sample	<10	<10	<10	40	10	<10	10	
1450		250S	Grey WBR 0.5M	<10	<10	10	70	20	<10	<10	



502071

074

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129

PROSPECT: Stonehenge

SAMPLE STORAGE REQ'D:

LABORATORY: REMISON

COLLECTED BY:

1:250,000 SHEET:

TYPE OF SAMPLE: Soil/Bulk

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Fe	As	NO ₃	Cu	Pb	Zn	
1890	1900E	425N	dark grey w/rock .6	210	210	10	<10	<10	<10	
1809		4150N	- - - .5	210	210	10	<10	<10	<10	
0898		475N	black w/rock .5	210	210	210	<10	<10	<10	
0899		500N	Rock chip	210	30	10	70	280	70	
0900		525N	dark grey w/rock .6	210	210	10	20	<10	<10	
0901	1900E	550N	grey w/rock .6	210	210	210	30	20	<10	
/										
1994	1000E	160N	grey w/rock .5	4	2100	-	3	40	15	(ANALYSE)
1995		155N	- - - .6	6	2100	-	10	55	20	"
1996		148N	Rock chip	4	2100	-	5	85	15	"
/										

5 cm

502073

071

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129

PROSPECT: Stonehead

SAMPLE STORAGE REQ'D:

LABORATORY:

COLLECTED BY:

1:250,000 SHEET:

TYPE OF SAMPLE: Soil/Bedrock

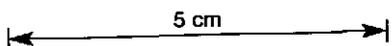
SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	Wb ₃	Cu	Pb	Zn	Mn	
1831	1900L	100S	fawn gravel .6	<10	<10	20	<10	20	<10	<10	
1830		75S	" " .6	<10	<10	20	<10	10	<10	<10	
1829		50S	" " .4	<10	<10	20	<10	80	<10	<10	
1828		25S	" " .8	<10	<10	20	<10	30	<10	<10	
1827		B/L	fawn w/rock .8	<10	<10	50	<10	30	10	<10	
1826		25N	dark grey " " .8	<10	80	40	40	5400	640	10	
1825		50N	grey clay " " 1.2	<10	<10	10	10	10	20	<10	
1824		75N	white gravel then cavity 2.5	<10	<10	20		<10	60	<10	
1823		100N	dark grey w/rock 2.4	<10	60	60	30	140	5900	<10	
1822		125N	Brown gravel 2.5	<10	10	30	20	50	4370	<10	
1821		150N	olive/brown w/rock 2.4	<10	170	70	<10	30	2100	10	
1820		175N	Dark brown " " 1.5	<10	90	30	<10	20	<10	10	
1819		200N	brown gravel 2.5	<10	<10	40	<10	30	<10	<10	
1818		225N	Brown " " .8	<10	<10	10	<10	30	<10	10	
1817		250N	dark grey w/rock 1.0	<10	<10	10	<10	20	<10	<10	
1816		275N	" " " " 1.0	<10	<10	20	30	100	50	<10	
1815		300N	fawn w/rock .6	<10	<10	10	<10	10	<10	10	
1814		325N	light grey " " .8	<10	<10	10	<10	300	<10	10	
1813		350N	Khaki/grey " " .6	<10	<10	40	<10	10	<10	<10	
1812		375N	green/grey " " .4	<10	<10	20	<10	10	<10	<10	
1811		400N	dark/grey w/rock .4	<10	<10	20	<10	<10	<10	<10	



502074

072

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129

PROSPECT: Shirehepe Grid

SAMPLE STORAGE REQ'D:

LABORATORY: RENISON

COLLECTED BY:

1:250,000 SHEET:

TYPE OF SAMPLE: Soil/Bedrock

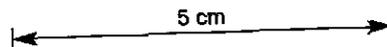
SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₂	Cu	Pb	Zn	Mo	
1836	2000E	300N	grey clay 2.5 w	<10	<10	10	<10	20	<10	<10	
1851		325N	Brown w/rock 2.2 w	<10	<10	30	20	510	2090	10	
2094		350N	yk grey silty chrp sample	<3	100	-	<10	45	15	<10	(AVAILABLE)
917		375N	black w/rock 1.2.	<10	<10	340	50	<10	<10	<10	
902		400N	grey gravel 0.7	<10	<10	10	90	10	<10	<10	
903		425N	rock chip	610	<10	10	20	<10	<10	<10	
904			-	<10	<10	10	20	10	10	<10	
905			grey gravel	<10	<10	<10	20	<10	<10	<10	
906		500N	Rock chip	<10	<10	10	10	<10	<10	<10	
907			Brown w/rock 1.0	<10	<10	10	<10	<10	<10	<10	
908			" " 0.8	<10	<10	10	40	<10	<10	<10	
909			grey gravel - angular	<10	<10	10	20	<10	<10	10	
910		600N	grey gravel	<10	<10	10	10	<10	<10	<10	
911			" " 0.8	<10	<10	10	20	<10	<10	<10	
912			" " 1.0	<10	<10	<10	30	<10	<10	<10	
913			" " "	<10	<10	<10	10	<10	<10	<10	
914		700N	" " "	<10	<10	10	20	<10	<10	10	
915			" " "	<10	<10	10	40	30	<10	10	
916	2000E	750N	" " "	<10	<10	10	10	<10	<10	<10	



502075

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129
1:250,000 SHEET:

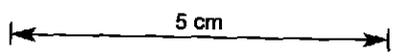
PROSPECT: Storahefer
TYPE OF SAMPLE: Sed/Bedrock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Ca	Pb	W ₂	Cu	Pb	Zn	Mo	
1872A	2100E	25N	Black w/rock .6	210	210	10	<10	<10	<10	<10	
1872B		000	grey .5	210	210	10	<10	20	<10	210	
1872A			fawn w/rock .5	210	210	30	<10	40	<10	210	
18725			grey .5	210	210	10	<10	10	<10	210	
18726			Rock chip .0	210	210	10	<10	10	<10	210	
1877	2100E	100S	fawn w/rock 1.0	210	210	20	<10	40	<10	210	
1461	2200E	000	grey w/ sed rock 1.0	210	210	210	40	10	<10	<10	
1462			" " .6	210	210	20	10	20	<10	<10	
1463		50S	quartz gravel .6	210	210	10	10	<10	<10	210	
1464			grey w. rocks .5	210	210	20	120	30	<10	210	
1465		100S	" " .3	210	210	10	60	10	<10	210	
1466			" " .8	210	210	10	160	30	<10	210	
1467		150S	" " .4	210	210	10	110	80	<10	210	
1468			chip sample	210	210	10	10	10	<10	210	
1468		200S	" "	210	210	20	110	20	10	210	
1470			" "	210	210	10	100	30	<10	210	
1471		250S	grey w. rocks .4	210	210	20	30	30	<10	210	
1472			quartz gravel .6	210	210	10	70	10	10	210	
1473		800S	" " .4	210	210	10	100	20	<10	210	
1474			" " Bedrock? .5	210	210	210	90	20	<10	210	



502076

076

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129
1:250,000 SHEET:

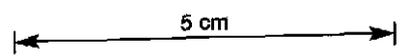
PROSPECT: Stonehenge Grid
TYPE OF SAMPLE: Soil/Bedrock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₃	Co	Pb	Zn	Mn	
1862	2100 E	550 N	fawn w/rock .8	<10	<10	10	<10	80	<10	<10	
1861			yellow/brown w/rock 1-6	<10	<10	20	20	30	<10	10	
1860		500 N	Brown clayey w/rock 2-2	<10	<10	10	<10	30	<10	0	
1859			- - gravel 2.2	<10	<10	10	20	20	<10	<10	
1858			- - w/rock 1-0	<10	<10	20	<10	60	10	<10	
1857				<10	<10	20	<10	1650	10	<10	
1856		400 N	grey/brown w/rock 1.3	<10	<10	10	10	150	60	<10	
1855			- angular gravel 1.4	<10	30	<10	<10	80	50	<10	
1854		350 N	unable to penetrate gull: black								
1854			black w/rock 1.5	<10	180	20	190	90	60	20	
1853		300 N	- - - 1-2	<10	20	20	30	60	50	<10	
1852			grey w/rock -4	<10	<10	40	<10	10	<10	<10	
1863			fawn w/rock .6	<10	<10	10	<10	<10	<10	<10	
1864			dark grey - - 1-2	<10	<10	60	10	10	<10	<10	
1865		200 N	Rock chip - mine dump?	<10	100	50	<10	40	20	<10	
1866			- - - ?	<10	190	60	<10	50	20	<10	
1867			orange w/rock - - ?	<10	270	40	<10	60	30	<10	
1868			Rock chip - - ?	<10	170	30	10	60	40	<10	
1869		100 N	- - - ?	<10	340	40	<10	60	20	<10	
1870			black w/rock .6	<10	30	10	140	100	30	30	
1871			grey - - 1-0	<10	<10	20	<10	20	<10	<10	



502077

077

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

FORM 1005

PROJECT: SPL 129
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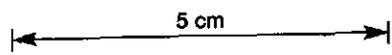
PROSPECT: Stonehenge
TYPE OF SAMPLE: Soil/Bedrock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Si	Al	NO ₃	CO	Pb	Zn	Mn	
1475	2200E	350S	quartz & gneissic gravel 4	<10	<10	10	90	20	<10	<10	
1476			" " " 6	<10	<10	<10	100	50	<10	<10	
1477		400S	chip sample	<10	<10	10	30	150	<10	<10	
1478			" " "	<10	<10	10	50	30	<10	<10	
1479		450S	" " "	<10	<10	10	130	30	<10	<10	
1480			" " "	<10	<10	<10	20	<10	<10	<10	
1481		500S	" " "	<10	<10	<10	20	10	<10	<10	
1482	2200E	525S	grey bedrock . cf	<10	<10	10	80	10	<10	<10	
1974	2200E	25N	Rock chip	<10	<10	10	<10	10	<10	<10	
1878		50N	grey w/rock 1-0	<10	<10	10	<10	20	<10	<10	
1879			Rock chip	<10	<10	10	<10	10	<10	<10	
1880		100N	dark grey clay - flood plain 2-2	<10	200	30	10	1180	940	<10	
1881			Rock chip mine dump?	<10	200	40	<10	70	140	10	
1882		150N	" " "	<10	150	<10	20	70	90	<10	
1883			Khaki clay 2-6	<10	80	30	40	920	1950	<10	
1884		200N	" " " 1-6	<10	140	50	10	3140	7900	<10	
1885			grey clays on top of quartz block 1-5	<10	30	10	10	110	270	<10	
1886		250N	grey clays on top of quartz block 1-5	<10	40	30	60	570	470	<10	
1887			dark grey clays 1-0	<10	<10	20	30	90	860	<10	
1888		300N	dark grey clays + fine clays 2-6	<10	<10	10	<10	20	20	<10	
1889			Brown clay & gravel 1-8	<10	10	40	20	100	3500	<10	



502078

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

1000000000

PROJECT: SPL 129
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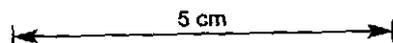
PROSPECT: Stonehefe
TYPE OF SAMPLE: Soil/Bedrock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	WO ₂	Co	Pb	Zn	Mo	
1890	2200E	350N	dark olive gravel 1-6.	210	20	20	30	100	1710	210	
1891			grey brown . 2.2	210	90	30	<10	40	1900	210	
1892		400N	fawn w/rock .8	210	210	20	10	20	40	210	
1893			grey w/rock .5	210	210	10	50	40	10	210	
1894		450N	fawn w/rock 1-5.	210	210	20	<10	50	10	210	
1946			grey/brown - .6	210	210	10	<10	70	20	210	
1947		500N	fine sandy gravel .4	210	210	20	10	40	20	210	
1948			Brown w/rock 1.2	210	210	20	20	60	<10	<10	
1949		550N	grey gravel 1.0	210	210	10	20	50	10	210	
1950			w/rock .8	210	210	20	30	90	<10	210	
1933		600N	fawn - - 1.4	210	210	30	<10	90	<10	210	
1934			- - - 1.2	210	210	20	<10	190	<10	210	
1935		650N	tan/brown w/rock 1.6	210	70	20	60	360	30	210	
1936			grey-fawn w/rock 1.2	210	210	20	<10	50	<10	210	
1937		700N	- - - 1.0	210	210	90	<10	60	<10	210	
1938			- - - 1.0	210	210	20	20	240	30	210	
1939		750N	grey w/rock 1.2	210	210	10	20	40	<10	210	
1940			tan - - .6	210	140	20	70	120	30	210	
1941	2200E	800N	grey - - .6	210	210	20	20	70	10	210	



502079

079

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129
1:250,000 SHEET:

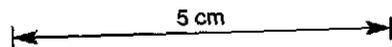
PROSPECT: Stoneheaf
TYPE OF SAMPLE: Soil/Bedrock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES								
				Si	Al	WO ₃	Cu	Pb	Zn	Mo		
1973	2300E	100S	Rocks chip	<10	<10	10	30	10	<10	<10		
1972			"	<10	<10	10	10	20	10	<10		
1971			"	<10	<10	10	<10	30	10	<10		
1970			"	<10	<10	10	10	20	<10	<10		
1969		000	"	<10	<10	20	<10	20	20	<10		
1968			"	<10	<10	10	30	10	<10	<10		
1967			"	<10	<10	10	<10	<10	<10	<10		
1966			"	<10	<10	10	<10	<10	<10	<10		
1965		100N	mine area	<10	<10	10	30	120	110	<10		
1964			grey clay ~ 1.2	<10	20	10	10	290	60	<10		
1963			" ~ 1.0	<10	20	40	<10	140	450	<10		
1962			grey clay & gravels 1.6	<10	70	30	60	40	1650	<10		
1961		200N	"	<10	40	30	<10	640	2170	<10		
1960			grey clay & rock 1.3	<10	10	20	<10	90	1400	<10		
1959			" ~ 1.8	<10	<10	20	<10	40	10	<10		
1958			grey clay & gravels 1.6	90	<10	20	<10	30	10	<10		
1957		300N	" 1.6	<10	<10	20	<10	20	<10	<10		
1956			gravels 2.4	<10	<10	10	<10	80	20	<10		
1955			" 2.0	<10	<10	10	<10	20	200	<10		
1954			" 2.2	<10	<10	10	<10	100	300	<10		
1942		400N	Brown clay 2.0	<10	<10	10	10	190	<10	<10		



502080

080

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129
1:250,000 SHEET:

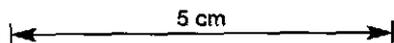
PROSPECT: Stoneheaf
TYPE OF SAMPLE: Soil/Bedrock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Sn	As	W _D	Co	Pb	Zn	Mo
1943	2300E	425N	Brown clay 2.0	<10	<10	10	<10	60	<10	<10
1944			" " 1.6	<10	<10	10	<10	20	<10	<10
1945			Orange/brown 2.3	<10	<10	40	50	970	390	10
1946 1951		500N	" " 1.5	<10	90	30	30	2460	310	<10
1952			" " 1.5	<10	150	30	80	5200	1070	10
1953	2300E	550N	" " clay & gravels 1.5	<10	340	20	30	520	650	10
1483	2400E	500S	qtz & qtzite gravels 1.0	<10	<10	10	110	30	<10	<10
1484			" " " 0.9	<10	<10	<10	70	<10	<10	<10
1485			Rock chip - qtzite screen	<10	<10	10	60	<10	<10	<10
1486			qtz & qtzite gravels 1.0	<10	<10	10	70	<10	<10	<10
1487		400S	grey w. rock .5	<10	<10	10	70	20	<10	<10
1488			" " " .5	<10	<10	<10	70	30	<10	<10
1489			Chip sample	<10	<10	<10	30	30	<10	<10
1490			" " "	<10	<10	<10	80	40	<10	<10
1491		300S	qtz. & qtzite gravels .6	<10	<10	10	130	40	<10	<10
1492			grey w rock 1.0	<10	<10	10	160	90	<10	<10
1493			qtzite ~ close spc .7	<10	<10	10	30	<10	<10	<10
1494			grey w rock R/ebp	<10	<10	<10	30	20	<10	<10
1495		200S	qtz & qtzite gravels .7	<10	<10	<10	30	20	<10	<10
1496			" " " .8	<10	<10	<10	50	<10	<10	<10



502081

081

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: SPL 129

PROSPECT: Stone Range

SAMPLE STORAGE REQ'D:

LABORATORY: ANALABS

DATE DISPATCHED:

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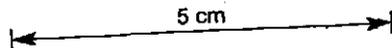
TYPE OF SAMPLE: Soil/Bedrock

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES								
			Sn	As	WO ₃	Cu	Pb	Zn	Mo	Ag	WO ₃
1984	2400Kd.	375N Brown soil rock 1.0	6	200		5	15	10	<10	<10	10
1985		400N Black 0.8	<3	<5		25	655	75	10	10	20
1986		grey 1.4	7	<5		10	120	195	<10	10	10
1987		450N clayey soil 2.2	20	<5		5	305	15	10	10	10
2018		Brown bed rock or compact gully gully 2.0	10	<5		10	2150	10	10	30	20
2017		500N Brown Bed rock or compact clay 2.0	15	<5		5	40	5	<10	10	20
2016		fawn w. rock 1.0	10	<5		<5	10	5	<10	10	30
2015		550N " " " 0.8	7	<5		<5	15	10	<10	10	20
2014		" " " 1-2	4	<5		5	120	10	<10	10	20
2013		600N " " " 1-0	7	<5		5	20	15	<10	<10	20
2012		fawn clayey gravels - bedrock? 1.4	<3	<5		<5	10	5	<10	<10	20
2011		650N grey w/ rock 1.0	<3	<5		<5	40	10	<10	<10	10
2010		" " " 1.2	15	100		<5	55	5	<10	<10	20
2009		700N " " " 0.4	6	<5		<5	15	10	10	<10	20
2008	2400Kd.	" " " 0.6	3	<5		5	90	10	<10	<10	10
2007		750N " " " 0.8	7	200		5	40	10	<10	<10	10
2006		grey L gravels - bedrock? 0.8	7	<5		5	<5	5	10	<10	20
2005		800N " / brown soil/rock 0.6	<3	100		<5	35	5	<10	<10	10
2004		" " L gravels - bedrock? 0.6	10	<5		5	10	10	<10	<10	20
2003		850N " " L gravels - bedrock 0.6	10	<5		<5	<5	10	<10	<10	20
2002		Rock chip	5	<5		5	5	5	<10	<10	10



502082

082

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: SPL 129

PROSPECT: Stoneheffe

SAMPLE STORAGE REQ'D:

LABORATORY: ABNISON

DATE DISPATCHED:

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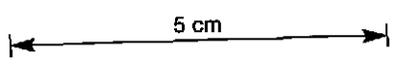
TYPE OF SAMPLE: Soil/Bedrock

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES								
			Sn	As	WO ₃	Cu	Pb	Zn	Mo	As	WO ₃
1497	2400E	250S grey w. rock .6	210	210	10	70	30	<10	<10		
1498		- - - 1.0	210	210	10	70	160	<10			
1499	200S	- - - .6	210	<10	210	120	10	<10			
1500		Alluvium .9	210	10	10	180	80	30	10		
1801	50S	Chip sample - creek	210	210	10	10	130	10	<10		
1802		Chip sample - (romney)	210	210	10	<10	<10	<10	210		
1803	2400E	000 grey w. rock .5	210	210	20	<10	10	<10	210		
1804		- - - .6	210	210	10	<10	<10	<10	210		
1805	50N	- - - .8	210	210	210	10	<10	<10	210		
1806		- - - .3	210	210	210	10	<10	<10	210		
1807	100N	Red ± quartzite gneiss .7	210	210	10	10	<10	<10	<10		
1808		Brown compact clayey gneiss 1.2	5	2100	-	5	35	255	<10	210	10
1975	150N	fawn w. rock .6	23	2100	-	5	30	25	210	210	20
1976		- - - 1.0	3	2100	-	15	95	15	210	<10	10
1977	200N	- - - 1.0	6	2100	-	30	60	15	210	<10	20
1978		- - - .8	9	2100	-	5	10	10	210	<10	10
1979	250N	Rock chip	8	2100	-	5	215	15	210	<10	10
1980		Brown gummy clay 1.6	23	2100	-	5	70	10	210	<10	10
1981	300N	- w. rock 1.2	8	2100	-	5	10	15	210	<10	10
1982		- - - 1.0	8	2100	-	5	25	10	210	210	210
1983	350N	- - - 1.0	23	2100	-	5	205	10	10	<10	10



502083

083

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: SPL 129

PROSPECT: Stone Ledge

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

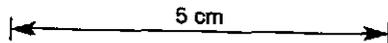
TYPE OF SAMPLE: Soil/Bedrock

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	REVISION				LTD				ANALYSES		
				Mo	As	W ₀₂	Sn	As			Cu	Pb	Zn	
2001	2400 Lat	900 N	grey w/rock ? 1.2	10	10	20	3	<5			5	<5	10	
2000			- - - ? .7	<10	<10	30	<3	<5			<5	5	10	
1999		950 N	grey L gravels - bedrock? .8	<10	<10	20	5	<5			<5	5	10	
1998			- - - - .7	10	<10	30	3	<5			5	5	10	
1997		1000 N	Dark grey w/rocks .8	<10	<10	20	6	<5			5	80	10	
1996 1993			grey L gravels .5	10	<10	20	4	<5			5	20	20	
1992		1050 N	- - - - bedrock 1.0	<10	<10	20	5	<5			5	15	10	
1991			- - - - 1.3	10	50	20	6	-			10	135	50	
1990	2400 Lat	1100 N	grey clayey w/rocks - flood plain down from M ¹⁰⁰ dump? .50				60	200			35	215	680	
1989			see per 1990	<10	10	20	80	<5			10	70	125	
1988		1150 N	Brown clayey soils + r/fragment.	<10	40	10	6	<5			30	55	180	
2019	2500 Lat	600 N	Rock chip taken in adit.	<10			15	<5			10	70	25	
2020			faun w/rock 1.4	40			7	<5			5	55	10	
2021		550 N	- - - - .8	<10			15	<5			5	390	10	
2022			Rock chip - adit	<10	<10	20	6	<5			<5	10	5	



502084

084

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: *SOL 129*

PROSPECT: *Stonehenge*

SAMPLE STORAGE REQ'D:

LABORATORY:

COLLECTED BY:

1:250,000 SHEET:

TYPE OF SAMPLE: *S.I./Bedrock*

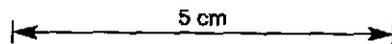
SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE DISPATCHED:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES <i>Revison LTD</i>								
				Sn	As	Cu	Pb	Zn	Mo	Ag	WO ₃	
2021	<i>2500 East</i>	<i>500 N</i>	<i>grey-brown clayey gravel 2.2.</i>	5	<5	5	190	10	410	10	20	
<i>2024</i>			<i>- - - 2.0</i>	6	<5	5	270	10	410	10	20	
<i>2025</i>		<i>450 N</i>	<i>Brown compact gritty clay 2.0</i>	4	<5	5	95	5	410	410	30	
<i>2026</i>			<i>yellow w/rock .8</i>	5	<5	<5	250	5	10	410	10	
<i>2027</i>		<i>400 N</i>	<i>Brown compact gritty clay .8</i>	10	<5	5	55	15	40	410	410	
<i>2028</i>			<i>- w/rock 1.0</i>	<3	<5	<5	45	10	410	410	20	
<i>2029</i>		<i>350 N</i>	<i>- - .8</i>	4	<5	<5	185	10	<10	410	20	
<i>2030</i>			<i>grey w. rock 1.0</i>	6	<5	<5	25	10	10			
<i>2031</i>		<i>300 N</i>	<i>grey/brown - .8</i>	9	<5	5	175	10	10	20	10	
<i>2032</i>	<i>2500 East</i>		<i>Brown 1.0</i>	5	<5	<5	375	10	40	410	20	
<i>2033</i>		<i>250 N</i>	<i>yellow 1.2</i>	<3	<5	<5	40	10	40	410	30	
<i>2034</i>			<i>tan/buff w/rock 1.5</i>	7	<5	5	485	10	410	410	10	
<i>2035</i>		<i>200 N</i>	<i>Grey/brown clay w/BR 0.8m</i>	5	<5	<5	60	5	10	410	20	
<i>2036</i>			<i>- 1' gravel - " 0.8m</i>	3	100	<5	5	5	10	10	30	
<i>2037</i>		<i>150 N</i>	<i>w/rock 0.7m</i>	<3	100	5	25	5	10	10	60	
<i>2038</i>			<i>Rock chip</i>	3	<5	<5	55	10	410	410	410	
<i>2039</i>		<i>100 N</i>	<i>- -</i>	3	<5	<5	35	10	410	410	410	
<i>2040</i>			<i>- -</i>	<3	<5	<5	10	5	410	410	410	
<i>2041</i>		<i>50 N</i>	<i>- -</i>	<3	<5	<5	25	5	410	10	410	
<i>2042</i>			<i>w/rock 0.8m</i>	4	100	5	145	15	410	410	10	
<i>2051</i>		<i>Blene</i>	<i>Rock chip</i>	4	<5	<5	140	10	410	410	410	



502085

085

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: *SPL 129*

PROSPECT: *Stonehope*

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

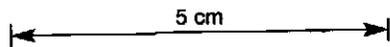
TYPE OF SAMPLE: *Bedrock Avp*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	Cu	Pb	Zn	Mo	Ag	WO ₃
2068	2600E	400S	Chip sample	4	<5	255	33,770	105	40	250	110
		375S	"								
2067		350S	"	<3	<5	<5	20	10	40	40	40
2066		325S	"	5	<5	<5	90	5	40	40	40
2065		300S	"	4	<5	<5	140	10	10	10	10
2064		275S	"	4	<5	<5	55	5	40	40	10
2063		250S	Chip sample	4	<5	5	205	70	40	40	10
2063		225S	Chip sample No SAMPLE (embank't)								
2062		200S	Grey WR may be dump? 0.8	6	100	5	35	15	10	40	10
2062		175S	No SAMPLE (embank't)								
2061		150S	Black BR 1.4m	<3	<5	10	30	10	10	40	20
2060		125S	DK grey WBR 1.2m	10	<5	<5	125	5	40	40	20
2059		100S	Grey WBR 1.2m	<3	<5	<5	65	5	40	40	40
2058		75S	Grey WBR 1.0m	6	<5	<5	20	5	40	40	10
2057		50S	Grey WBR 0.8m	<3	<5	<5	35	10	40	40	20
2056		25S	Grey WBR 0.5m	7	<5	<5	210	10	10	40	20
2055		050	Tan WBR 1.0m	<3	<5	<5	5	5	40	40	20
2054		25N	Tan WBR 0.8m	4	<5	<5	55	10	40	40	20
2053	2600E	50N	Grey WBR 0.5m	6	<5	<5	35	10	10	40	40
2044	2800E	475N	Alfite chip sample	5	<5	5	45	15	40	20	40
2045		450N	WBR 0.3m	8	<5	5	40	15	40	10	40
2046		425N	WBR or sandy scree 1.0m	3	<5	5	180	10	40	40	20



502086

086

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: SPL 129
1:250,000 SHEET:

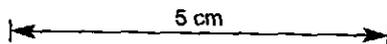
PROSPECT: Shoshenge
TYPE OF SAMPLE: Soil - Bedrock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES									
				Sn	As	Cu	Pb	Zn	Mo	Ag	W ₂ O ₃		
2087	2600E	925S	Pale grey L gravel 0.9m	<3	<5	<5	<5	10	<10	<10	10		
2086		900S	Brn clayey L gravel 2.3m	<3	100	20	20	30	10	<10	10		
2085		875S	White ptz phylite L gravel 1.5m	4	100	<5	<5	5	<10	40	10		
2084		850S	Grey phylite 1.0m	<3	<5	5	10	10	10	<10	10		
2083		825S	Chip sample ptz & ptz vein 1.0m	<3	<5	<5	5	5	10	<10	10		
2082		800S	Black phyll 1.0m	6	<5	5	25	15	10	<10	<10		
2081		775S	Sandstone cream chip sample	7	<5	<5	35	5	10	10	10		
2080		750S	" "	3	200	<5	50	5	<10	40	10		
2079		725S	Brn siltst 1.2m	<3	<5	<5	55	15	<10	10	10		
2078		700S	Grey " 0.5m	5	<5	<5	20	15	10	40	10		
2077			W/rock 0.8m	<3	100	<5	15	5	10	40	10		
2076		650S	Fawn W/rock 1.0m	<3	<5	5	320	25	40	10	20		
2075			Grey WBR 1.0m	10	<5	5	70	20	40	40	10		
2074		600S	Chip sample	3	100	50	625	170	<10	10	20		
2073			Kahki WBR 1.2m	45	100	165	2850	445	20	170	40		
2072		550S	Kahki clay WBR 2.2m	<3	200	135	1100	780	<10	60	30		
2071			Chip sample	<3	<5	<5	55	5	<10	40	10		
2070		500S	Grey WBR 1.5m	<3	<5	5	290	10	<10	40	20		
			Jump 150 SAMPLE										
2069		425S	Chip sample	7	300	5	210	10	<10	10	10		



502087

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129
1:250,000 SHEET

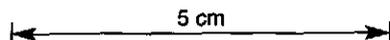
PROSPECT: Stone henje
TYPE OF SAMPLE: Bedrock/Soil

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION		ANALYSES							REVISION LTD	
					Sn	As	Cu	Pb	Zn	Mo	As	WO ₃	
2152	2600E	775N	Gravel white L fine	0.9m	7	<5	<5	135	5	<10	<10	10	
2153		750N	Cream/brown WBR	0.7m	8	<5	10	555	5	<10	30	10	
2154		725N	Grey WBR	0.4m	<3	<5	<5	545	5				
2155		700N	Cream fine L gravel	1.0m	<3	<5	5	110	5	<10	10	20	
2156		675N	" " "	0.7m	4	<5	<5	105	5	<10	<10	20	
2157		650N	" " "	1.5m	10	100	<5	70	5	<10	<10	10	
2158		625	Grey silt soil (large flint blocks)	0.5m	5	100	<5	60	"	<10	<10	10	
2159		600N	Gravel fine cream - dk brn (8')	1.2m	<3	<5	<5	75	5	<10	10	20	
2160		575N	Yel/bn clay WBR	1.4m	8	<5	15	350	15	<10	100	30	
2161		550N	" " "	0.8m	10	<5	<5	65	5	10	10	20	
2162		525N	Orange brn clayey BR?	1.4m	15	100	15	260	15	50	20	50	
2163		500N	Grey-bn fine L clayey gravels	0.8m	10	100	<5	85	5	<10	<10	20	
2164		475N	" " "	0.5m	70	<5	<5	375	5	<10	20	50	
2165		450N	Gravel grey - dk brn (8')	1.2m	4	<5	<5	35	5	<10	<10	10	
2166		425N	Clayey gravels or WBR? ben prospect trench	1.5m	15	100	<5	310	5	<10	<10	10	
2167		400N	Orange brn clayey BR?	1.5m	40	<5	25	475	60	<10	190	30	
2168		375N	Kahki phyll BR	1.5m	10	<5	20	335	30	10	130	10	
2169		350N	Cream-fine WBR	1.3m	25	<5	5	1350	10	<10	20	30	
2170		325N	Grey brn weather phyll	0.6m	6	100	<5	210	5	<10	<10	20	
2171		300N	Orange brn crumb WBR	1.2m	8	<5	125	470	40	10	100	20	
2172		275N	DK brn L pr phyll gravels	0.8m	5	<5	<5	90	5	<10	<10	60	



502089

087

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: *SPL 129*
1:250,000 SHEET:

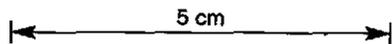
PROSPECT: *Stonehenge*
TYPE OF SAMPLE: *Bedrock/soil*

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY: *REXISON*
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							REXISON	
				Sn	As	WO ₃	Cu	Pb	Zn	Mo		
1842	2000 East	475S	Rock clp.	30	<10	20	<10	580	<10	<10		
1843		500S	-	20	<10	10	10	110	<10	<10		
1844			-	<10	<10	10	20	100	<10	<10		
1845		550S	-	2090	10	20	10	40	<10	<10		
1846	2000 East	600S	-	<10	<10	10	10	70	10	<10		
1847			gray w rock .7	<10	<10	10	10	<10	<10	<10		
<hr/>												
-	2600E	1100N	No SAMPLE MINE DUMPS								As	WO ₃
2105		1075N	Coarse ph/phylike gravel no BK 1.0m	6	<100	-	10	205	625	10	20	20
2104		1050N	Blk siltst BK 1-2m	15	<100	-	05	15	25	<10	90	30
2103		1025N	dk gray ph/lt/siltst	40	100	-	15	865	20	10	100	20
2102		1000N	Qtz gravel	6	<100	-	5	145	25	10	20	10
2101		975N	Chop sample dk gray siltst	6	<100	-	20	560	65	10	10	20
2100		950N	Gray siltst 0.6m	5	<100	-	5	35	15	10	10	10
2146		925N	Qtz ph/lt gravel (sieve) 0.6m	<3	<5		<5	<5	10	<10	<10	20
2147		900N	Brn l' gravel 0.6m	3	<5		<5	25	5	<10	40	20
2148		875N	Chop sample blk phyllite	30	<5		30	410	1050	10	20	30
2149		850N	" " phyllite	3	<5		<5	15	10	10	40	<10
2150		825N	Gray sand l' gravel (sieve) 1.2m	5	<5		<5	50	10	<10	<10	10
2151		800N	" " " 0.6m	9	<5		<5	20	5	10	<10	30



502090

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: *SL 129*
1:250,000 SHEET:

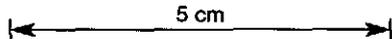
PROSPECT: *Stonehenge*
TYPE OF SAMPLE: *Sil / Rock*

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Si	As	WO ₃	Cu	Pb	Zn	Mo
960	<i>2000ft.</i>	<i>50N</i>	<i>grey w. rock .6</i>	210	210	20	20	70	<10	210
961			<i>-.5</i>	210	210	10	20	70	<10	210
962		<i>Bl line</i>	<i>Rock chip</i>	210	210	10	20	20	<10	210
963			<i>grey L gravel .5</i>	210	210	20	20	30	<10	10
964		<i>50S.</i>	<i>w. rock .6</i>	210	210	10	10	60	<10	210
965			<i>-.7</i>	210	210	10	10	60	<10	210
966		<i>100S</i>	<i>-.5</i>	210	210	10	10	50	<10	210
967			<i>Rock chip</i>	210	210	10	10	50	<10	210
968		<i>150S.</i>		210	210	10	320	50	<10	210
969				210	210	10	290	40	<10	210
970	<i>2000ft.</i>	<i>200S.</i>		70	20	10	140	200	40	10
971				60	20	10	140	200	30	10
972		<i>250S</i>	<i>grey L gravel .5</i>	10	210	10	20	30	<10	210
973			<i>Rock chip</i>	210	210	210	20	30	<10	210
974		<i>300S.</i>		210	70	210	10	250	<10	210
975				210	70	10	10	240	<10	210
1837		<i>350S</i>		210	210	10	10	100	<10	210
1838			<i>grey w. rock .1.0</i>	210	210	10	210	100	<10	210
1839	<i>2000ft.</i>	<i>400S</i>	<i>-.3</i>	210	210	20	<10	700	<10	210
1840			<i>grey clayey angular gravel 1.2</i>	10	20	10	10	50	<10	210
1841		<i>450S</i>	<i>Rock chip</i>	210	210	10	10	60	10	210



502091

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: *SRL 129*
1:250,000 SHEET:

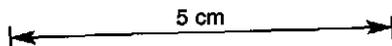
PROSPECT: *Stonehenge*
TYPE OF SAMPLE: *Bedrock*

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES						
				Si	Al	WO ₃	Ca	Pb	Zn	Mo
939	Sooohet	575N	Rock chip.	<10	<10	10	30	<10	<10	40
940		550N	-	<10	<10	10	10	<10	<10	10
941			-	<10	40	10	20	20	<10	<10
942		500N	-	<10	40	<10	<10	70	<10	<10
943			grey w rock .6	<10	40	10	<10	80	<10	<10
944		450N	= L gravels .5	<10	40	10	<10	110	<10	<10
945			Rock chip.	<10		40	<10	90	<10	<10
946	}	400N	grey L gravels 1.0	<10	40	10	<10	120	<10	<10
947				Rock chip.	<10	40	10	<10	120	<10
948	Sooohet	350N	-	<10	40	10	20	280	10	<10
949				-	<10	40	10	20	290	10
950		300N	grey w rock.	<10	40	10	<10	40	<10	<10
951			Rock chip.	<10	40	<10	<10	40	<10	<10
952		250N	-	<10	40	10	20	110	<10	<10
953			-	<10	40	<10	30	120	<10	<10
954		200N	-	<10	40	10	10	570	<10	<10
955			grey w rock .1.0	<10	40	10	100	190	<10	<10
956	}	150N	-	<10	40	10	10	80	<10	<10
957				= gravels.	<10	40	10	70	1240	<10
958	Sooohet	100N	= w rock.	<10	40	10	<10	120	<10	<10
959				Rock chip.	<10	40	10	<10	110	<10



502092

092

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

PROJECT: SPL 129
1:250,000 SHEET:

PROSPECT: Stonehenge
TYPE OF SAMPLE: S&L Bedrock

SAMPLE STORAGE REQ'D:
SAMPLE PREP. REQ'D:

LABORATORY:
ANALYSIS REQ'D:

COLLECTED BY:
DATE DISPATCHED:
DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	W ₂	Cu	Pb	Zn	Mo	
918	Zooled.	1100N	Drain rock .8	<10	<10	10	30	10	70	<10	
919				grey angular gravel .6	<10	<10	10	20	<10	<10	<10
920		1050N	" " .7	<10	<10	10	30	<10	<10	<10	
921			" rock .7	<10	<10	10	70	10	<10	10	
922		1000N	" L gravel .6	<10	<10	10	30	<10	<10	<10	
923			" " 1.0	<10	<10	10	110	10	<10	<10	
924		950N	Rock chip.	<10	<10	10	20	10	<10	<10	
925			" "	<10	<10	10	20	10	<10	<10	
926		900N	grey angular gravel .7	<10	<10	10	20	10	<10	<10	
927	} Zooled.		" " .6	<10	<10	10	20	10	<10	<10	
928		850N	Rock chip.	<10	<10	10	30	20	<10	10	
929			grey gravel .8	<10	<10	<10	20	<10	<10	10	
930		800N	Rock chip.	<10	<10	10	10	10	<10	<10	
931			" "	<10	<10	<10	40	<10	<10	<10	
932		750N	" "	<10	<10	10	20	<10	<10	<10	
933			grey rock .5.	<10	<10	10	40	30	<10	<10	
934		700N	" " .7	<10	<10	10	20	320	<10	<10	
935			Rock chip.	<10	<10	<10	30	20	<10	<10	
936		650N	" "	<10	<10	10	10	<10	<10	<10	
937	} Zooled.		grey rock .8	<10	<10	10	20	30	<10	<10	
938		600N	Rock chip.	<10	<10	<10	10	30	<10	<10	

5 cm

502093

093

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: *SP 128*

PROSPECT: *Stonehenge*

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

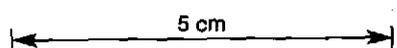
TYPE OF SAMPLE *Soil / Bedrock*

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION	ANALYSES							
				Sn	As	W ₂	Cu	Pb	Zn	Mo	
1911	<i>2200E</i>	<i>32SS</i>	Rock chip	<10	10	10	20	60	<10	<10	
1912		1350S	" "	<10	<10	10	20	170	<10	<10	
1913		<i>27SS</i>	Grey WBR	1.4m	<10	<10	10	<10	240	<10	<10
1914		1400S	" gravel	1.4m	<10	<10	10	<10	50	<10	<10
1915		<i>22SS</i>	Rock chip		<10	<10	10	20	10	<10	<10
1916		<i>200S</i>	Grey WBR	0.8m	<10	<10	10	10	40	<10	<10
1917		<i>17SS</i>	DK grey "	^ 7m	<10	<10	10	<10	90	<10	<10
1918		1500S	Grey "	1.2m	<10	<10	10	<10	140	<10	<10
1919		<i>25S</i>	" gravel	1.4m	<10	<10	10	<10	30	<10	<10
1920		<i>100S</i>	Black WBR	1.2m	<10	<10	10	10	20	<10	<10
1921		<i>7SS</i>	Grey "	1.0m	<10	<10	10	10	30	<10	<10
1922		1600S	Black WBR	0.8m	<10	<10	10	10	140	40	<10
1923		<i>25S</i>	Rock chip		<10	<10	10	<10	30	<10	<10
1924		<i>000</i>	Grey L gravel	1.2m	10	40	10	40	10	10	<10
1925		<i>25N</i>	" "	1.0m	<10	<10	<10	<10	<10	<10	<10
1926		1200S	WBR	1.0m	<10	<10	20	<10	10	<10	<10
1927		<i>75N</i>	Yellow / grey WBR	1.2m	<10	<10	10	<10	30	<10	<10
1928		<i>100N</i>	Grey WBR	0.3m	<10	<10	10	30	10	<10	<10
1929		<i>125N</i>	Rock chip		<10	<10	10	<10	<10	<10	<10
1930		<i>150N</i>	" "		<10	<10	10	<10	50	<10	<10
1931		<i>175N</i>	" "		10	20	20	20	30	30	<10
1932		<i>200N</i>	Grey WBR	1.2m	<10	<10	10	<10	<10	<10	<10



502094

094

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: SPL 128

PROSPECT: Stonehorse

SAMPLE STORAGE REQ'D:

LABORATORY: R.F. NISON

DATE DISPATCHED:

1:250,000 SHEET:

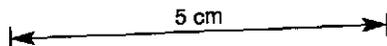
TYPE OF SAMPLE:

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION	DESCRIPTION	ANALYSES								
			Sn	Pb	NO ₂	Cu	Pb	Zn	Mo	As	WO ₂
1428	1800E	800S kalki weath pit & alk. 1.5m		<10	-	5	85	255	<10	50	10
END OF SAMPLING LINE 1800E											
1850	2800E	800S Rock chip	<10	<10	<10	<10	50	<10	<10		
1848		775S DK grey WBR 1.0m	<10	<10	30	10	40	<10	<10		
1848		100S Grey sands 1.2m	<10	<10	10	<10	10	<10	<10		
1895		725S Rock chip	<10	<10	10	<10	<10	<10	<10		
1896		700S " "	<10	<10	"	<10	<10	<10	<10		
1897		675S " "	<10	<10	10	<10	<10	<10	<10		
1898		1000S " "	10	<10	10	10	<10	<10	<10		
1899		625S " "	<10	<10	10	<10	20	<10	<10		
1900		600S Grey WBR 1.0m	<10	<10	10	<10	20	<10	<10		
1901		575S Rock chip	20	<10	20	20	30	<10	<10		
1902		1400S " "	10	<10	10	20	20	<10	<10		
1903		555S Grey L' sands	<10	<10	20	<10	20	<10	<10		
1904		500S DK grey WBR	<10	<10	20	<10	40	<10	<10		
1905		475S Rock chip	<10	<10	10	<10	10	<10	<10		
1906		1200S " "	<10	<10	10	10	30	<10	<10		
1907		425S Grey sands 1.0m	<10	<10	10	<10	<10	<10	<10		
1908		400S " " 1.0m	<10	<10	<10	<10	20	<10	<10		
1909		375S " " 1.0m	<10	<10	10	<10	80	<10	<10		
1910		1800S Grey WBR 1.2m	<10	<10	10	<10	60	<10	<10		



502095

095

GOLD FIELDS EXPLORATION PTY. LTD.

SAMPLE RECORD AND ANALYTICAL DATA SHEET

COLLECTED BY:

PROJECT: SPL 129

PROSPECT: Skenehorpe

SAMPLE STORAGE REQ'D:

LABORATORY:

DATE DISPATCHED:

1:250,000 SHEET:

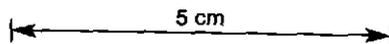
TYPE OF SAMPLE Soil/Bedrock

SAMPLE PREP. REQ'D:

ANALYSIS REQ'D:

DATE RECEIVED:

SAMPLE NUMBER	LOCATION		DESCRIPTION		ANALYSES								
					Sn	As	Cu	Pb	Zn	Mo	AS	WO ₃	
2047	2800E	400N	Pale grey WBR	1.1m	6	<5	5	570	15	<10	10	10	
2048		375N	" " "	0.6m	4	<5	<5	30	10	<10	<10	10	
2049		350N	" " " ?	0.5m	9	100	<5	105	10	<10	<10	20	
2050		325N	" " "	1.4m	25	<5	<5	1000	25	<10	30	20	
2201		300N	Qtzite chip sample		5	<5	<5	5	15	<10	<10	10	
2202		275N	Cream/pe. WBR (maybe zone)	0.8m	10	100	<5	15	10	<10	<10	20	
2203		250N	Grey L. frawels clay	1.5m	10	<5	5	65	10	<10	40	40	
2204		225N	" " - possibly WBR	0.4m	8	<5	5	35	10		40	20	
2205		500N	Qtzite chip sample		6	<5	<5	10	5	<10	<10	10	
2206		525N	Cream WBR or ocree frawels	0.5m	43	<5	<5	10	5	<10	10	40	
2207		550N	" - brn WBR	1.0m	20	<5	<5	35	5	40	40	20	
2208		575N	" " or frawels?	0.4m	10	<5	<5	35	5	40	10	20	
2209		600N	" " "	0.7m	9	<5	<5	105	10	<10	10	20	
2210		625N	" " or frawel?	0.4m	4	100	<5	25	10	<10	<10	10	
2211		650N	" " "	1.4m	43	100	20	245	25	<10	<10	10	
2212		675N	Gravels white - brn (B horizon)	1.4m	4	<5	<5	45	10	<10	<10	20	
2213		700N	"	0.5m	7	<5	<5	5	10	40	40	10	
2214		725N	Cream - grey WBR	0.8m	6	<5	<5	5	15	40	<10	<10	
2215		750N	" " "	0.9m	10	<5	<5	20	10	<10	10	20	
2216		775N	" brn "	0.6m	6	<5	<5	15	15	40	40	10	
2217		800N	Grey/brn WBR	0.3m	<3	<5	<5	5	10	<10	<10	20	



502096

APPENDIX 5.

A Report on the Dighem Survey over the Stonehenge Area,
S.P.L. 129 by Dr. J.R. Bishop (Mitre Geophysics Report 82/15).



MITRE GEOPHYSICS PTY LTD

MINERAL EXPLORATION AND ENGINEERING CONSULTANTS

BUGGS LANE ELLIOTT TASMANIA 7325 PHONE 004-363143

A REPORT ON THE DIGHEM SURVEY OVER
THE STONEHENGE AREA, SPL129

for

RENISON LTD.

by

Dr. J.R. BISHOP

RN/MG82/15
October, 1982



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Tables and Figures	i
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Exploration Target and Geologic Setting	3
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Conclusions and Recommendations	9
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TABLES AND FIGURES

Table 1: Anomaly List

Figure 1: * Dighem EM anomalies (1:10,000)

Figure 36 Stonehenge and Queen Hill magnetic profiles
(1:10,000)

* See Figure 35, main report.



SUMMARY

A Dighem survey of 149 line-kms. was flown over the eastern end of SPL129. The survey defined several sub-parallel linear conductive zones (trending approximately west-north-west) on the northern flank of a broad, 400 gamma) magnetic anomaly. Although parallel to the area's dominant fault direction and cutting across many bedrock strike directions, the likely source of the zones is a series of graphitic shales whose graphite content varies along strike and down dip (thus giving rise to anomalies of varying amplitudes with interpreted sources of varying conductances and depths).

If the interpretation of graphitic shales is geologically unacceptable, a possible explanation for the zones is highly conductive groundwater concentrated along a series of faults or fractures; the high conductivities arising from the widespread occurrence of sulphides. But it is noteworthy that no responses were recorded over the area's two prominent faults: the Balstrup and Tenth Legion faults.

For both interpretations there is the possibility that the zones are a series of short north or north-north-east trending conductors: there is little structural information and Dighem's interpreted zones may be (mostly) a function of the flight line direction.

Some anomalies were recorded over old workings, but these only occurred along the conductive zones; there were no individual responses over any other workings. Thus the association may be apparent (to be verified by ground follow up) or coincidental (i.e. the anomaly is not due to the old workings, but to the cause of the zone overall).

Two short zones trending north-east indicate a change in geologic strike in the western portion of the surveyed area (south of the Tenth Legion Fault). The zones overlie marshy areas and may be due to conductive layers within alluvium, however the zones parallel (and zone L may coincide with) local geologic contacts and some contribution from north-east structural features is likely. Some isolated anomalies were also due to surface conductors.



Potentially interesting anomalies include: H, an isolated anomaly with a 28 mho conductance at 24m.; I10, a 56 mho conductor at 36m.; and the adjacent anomaly I11 which is a 5 mho conductor at 0m., overlying an old shaft; and M6, another weak (3 mho) conductor over the old 'Sunshine' workings, with an interpreted depth of 36m.



INTRODUCTION

A Dighem survey of 149 line-kms. was flown over the eastern part of SPL129 in February 1982 for Renison Ltd. The lines were flown north-south with a nominal spacing of 150m., and average clearances of 40m. and 55m. for the EM bird and magnetometer respectively, were quoted in the Dighem report (Peters and Dvorak, 1982). The surveyed area has been called the Stonehenge Area after an old silver-lead mine near the centre of the survey.

The Dighem system is a helicopter-borne EM technique using a towed bird which contains two sets of transmitting and receiving coils: one pair of vertical coils with a common axis (co-axial) and a pair of horizontal, co-planar coils. The transmitted frequencies are sufficiently far apart to be recorded separately, but are close enough to assume both coils operate at 900 Hz. for mathematical treatment of the responses. The two coil orientations allow Dighem to differentiate different types of conductors, in particular conductive overburden from bedrock conductors.

The survey data is computer processed and, as well as giving the usual in- and out-of-phase responses for both coil orientations and the altimeter and magnetometer data, the profiles show apparent resistivity and depth for a conductive earth model; conductance for a vertical dyke model, plus various anomaly enhancement channels. Also shown are the ambient noise levels for both coil orientations. Further description is given in the Dighem report and in Fraser (1979).

The output from the Dighem survey consists of the original analogue records, computer processed profiles and four maps. One map shows the EM anomalies with a grade symbol and two series of dots. The grade is based on the conductance of a (assumed) vertical tabular body as the cause of the anomaly. One series of dots shows the size of the response, the other the interpreted depth. A second map is a contour plan of resistivity (a conductive earth beneath a resistive layer is assumed). A third map is a contour plan of the magnetics, and the fourth map is a plan of enhanced magnetics. The processing for the last map removes broad anomalies and amplifies the response of narrow ones; thus it accentuates near surface magnetic bodies. The resistivity and both magnetic maps show the EM grade symbol but not the other information. For all maps the base was a photomosaic at a scale of 1:10,000.



Dighem have defined six grades for the EM anomalies. These are: -

<u>Dighem grade</u>	<u>Conductance (σt) range</u>
6	≥ 100
5	50 - 99
4	20 - 49
3	10 - 19
2	5 - 9
1	≤ 4
X	possible

The following quote is on all Dighem EM maps.

"Dighem anomalies are divided into six grades of conductivity-thickness product. This product in mhos is the reciprocal of resistance in ohms. The mho is a measure of conductance, and is a geologic parameter. Most swamps yield Grade 1 anomalies but highly conducting clays can give Grade 2 anomalies. The multi-coil anomaly shapes often allow surface conductors to be recognised, and these are indicated by the letter S on this map. The remaining Grade 1 and 2 anomalies could be weak bedrock conductors. The higher grades indicate increasingly higher conductances. Examples: the ore bodies of the Mogusi River camp yield Grade 4 anomalies, while Mattabi and Whistle give Grade 5. Graphite and sulphides can span all grades but, in this survey area, field work may show that the different grades indicate different types of conductors."

The Dighem system responds to a non-conductive magnetic body with a negative in-phase anomaly in both coil configurations. A conductive magnetic body will also give a quadrature response. Fraser (1979) states that the "difference technique (i.e. the difference in responses of the two coil orientations) which tends to eliminate the response of conductive ground, also has the same effect on broadly distributed magnetite."

Dighem identifies the anomalies on the computer profiles alphabetically from north to south on any one flight line; grade X responses are lettered separately, also starting from A. Anomalies thought to be spurious (i.e. caused by sferics, instrumental noise, etc.) are not plotted on the



plans, and thus the anomaly labels may not be sequential and letters may be repeated if there are both definite and possible anomalies.

For this report, the anomalies have been replotted on to a 1:10,000 scale interpretive geology sheet which also shows the topography. The anomalies are indicated by open circles with the Dighem grade inside: possible anomalies are shown as X. Zones of anomalies have been outlined and these, together with isolated anomalies, have been labelled alphabetically. Table 1 lists the anomalies (geographically from the north) under this 'Mitre' labelling and gives the equivalent Dighem identification together with the respective EM channel amplitudes and Dighem's quantitative interpretation data. This presentation allows a ready comparison of anomalies within the one zone.

This report evaluates the EM responses recorded by the Dighem survey and gives an order of priority for ground follow up.

EXPLORATION TARGET AND GEOLOGIC SETTING

The surveyed area contains numerous old mines and prospects (see Figure 1); these were mostly over small, but often rich, silver-lead lodes which occurred in fissure veins along faults and fractures, etc. The lodes commonly had a pyritic gangue and were often dislocated by post-mineralisation faulting (Blissett, 1962). The host rocks for this (Devonian) mineralisation were usually the quartzites, shales and slates (including black shales) of the Pre-Cambrian Oonah Quartzite (which also contains flows of spilitic lava) and the greywackes and shales of the Cambrian Crimson Creek Formation and Dundas Group. However the main exploration target for the Dighem survey was for a cassiterite-stannite deposit similar to the Queen Hill complex of lodes which lies to the north of Stonehenge, and which promises to again become an operating mine.

The Queen Hill lodes are atypical of the Zeehan silver-lead mining field in that they contain significant stannite and/or cassiterite (again in a mainly pyritic gangue). Both and Williams (1968) have shown that this area is anomalous in an otherwise well defined zoning pattern and have



postulated a cupola beneath Queen Hill which has superimposed its own mineralogical zoning pattern on that established by the Heemskirk Granite*. Both and Williams noted no other such anomalous zones and it must be concluded that if they exist, the sources are likely to be at a greater depth than that suspected beneath Queen Hill.

There is a large magnetic anomaly beneath Queen Hill (defined by Turair (1973) and Mines Dept. (1982) surveys) which may be due to hornfelsing or metasomatism of the country rocks around the cupola and some encouragement may be gained from a similar, but much larger anomaly defined by the Dighem survey over the Stonehenge area. (Other causes are of course possible and they need not be the same for the two anomalies. Likely alternatives for the Stonehenge anomaly include a deep-seated gabbro or a series of basic rocks (e.g. ? spilitic lavas) or even a series of pyrrhotite lodes). Apart from the difference in amplitude between the anomalies (Queen Hill about 200 gammas, Stonehenge about 400 gammas), only Queen Hill has a shallower source superimposed on the main anomaly (see Figure 2) which may be due to the (?) economic mineralisation#. In the Turair survey, various EM conductors were defined around the flanks of the Queen Hill magnetic anomaly (Howland-Rose, 1973), and a similar pattern was obtained by the Dighem survey on the northern side of the Stonehenge anomaly.

Apart from responding to Airborne EM surveys, Queen Hill also causes IP, applied potential and SP anomalies. The last mentioned was particularly strong (>400mV) and clearly defined the Stormsdown and Clarke's lodes. (Downhole resistivity surveys showed the Clarke's and Gippsland lodes to be at least 100 times more conductive than the host rocks (Howland-Rose, 1972).) Apparently some of the deeper lodes contain

* Both and Williams (1968) claim some geophysical support for the cupola from unpublished gravity data by the BMR: this should be confirmed (or otherwise) by the soon-to-be-released detailed gravity survey of the Zeehan area by the Tasmanian Mines Dept. Obviously the data should also be extremely useful for locating any other such occurrences.

#Assuming a single spherical source for this anomaly, the depth to the centre is about 200m: if a susceptibility of .005 cgs units is chosen from a range of say .001 to .01 units; then for a density of 4gm/c.c., a resource of 3 million tonnes is estimated from a range of 15 to 1.5 million tonnes respectively.



significant amounts of pyrrhotite (Roberts, pers. comm.) and thus magnetics may also be a diagnostic method.

Bedrock EM anomalies may be caused by sulphides (with or without tin or base metals), graphite or even faults and fractures. Whilst responses over the last mentioned will usually be weak, it is often difficult to distinguish between sulphides and graphite. Magnetism may be a useful method for detecting (hopefully tin-bearing) pyrrhotite, but the lack of an associated magnetic response would not preclude further evaluation of an EM anomaly and thus it seems likely that geochemistry should provide the best means of discriminating between these various EM responses. However for the deep cupola postulated above, a buried, sealed deposit may occur, in which case geochemistry may also not be effective. For such a body, a deep looking (ground) EM or IP survey is probably the most effective technique.

Both and Williams (1968) noted that the dominant strike direction of the faults in the area was approximately west-north-west, while the trend of most of the mineralised veins was north-north-west, with others between north and north-north-east.

RESULTS

The survey defined a total of seventy four anomalies of which one was grade 5, eight were grade 4, fifteen were grade 3, twelve were grade 2, twenty were grade 1 and eighteen were possible anomalies. Most of the anomalies had strong responses which gives credence to the mho estimates (i.e. grades) and suggests that they should be readily detected on the ground (assuming reasonable accuracy in their location).

The zones and individual anomalies are evaluated below from north to south. The grades in each zone are indicated, with the number of anomalies having a particular grade shown in brackets. Individual anomalies within a zone are numbered from west to east.

Anomaly A: one response, grade 1. This anomaly is at least 600m. outside of the lease, and has not been considered.



Zone B: three responses, grades 2 (2) and X. This zone overlies the old Susannite and possibly Britannia (? exact location) workings, however the nearest anomaly is more than 350m. away from the lease and the zone has not been considered.

Zone C: two responses, grades 3 and 2. This zone which (?) overlies the Comstock workings occurs well outside the lease and has not been considered.

Zone D: four responses, grades 3 (3) and X. This zone lies outside of the lease with the nearest anomaly 150m. north of the boundary. Location errors of this magnitude and greater are unlikely in this part of the survey area and the zone has not been considered.

Zone E: four responses, grades 3, 2 and X (2). This zone is at least 250m. outside of the lease and has not been considered.

Zone F: eight responses, grades 2, 1 (6) and X. This zone lies between 120m. and 200m. north of the lease boundary and the zone has not been considered. However location errors of this magnitude have occurred in similar Dighem surveys (i.e. in areas with reasonable control) and the anomalies have been listed in Table 1.

Zone G: eighteen responses, grades 4, 3, 2 (6), 1 (7), and X (3). Anomalies G1 to G4 of this zone (Grades 4 and 2 (3)) lie outside of the lease. The zone has a strike length of over 2500m. which suggests a formational or structural cause. The strike direction of approximately west-north-west is that of the dominant fault direction noted by Both and Williams (1968), however many of the anomaly conductances are too high for a barren fault. The interpretation of a partly mineralised fault is reinforced by the apparent coincidence of this zone with the old South Comstock workings, but this may be coincidental (see Conclusions, below). Alternatively the fault may be filled with very conductive water, caused by the widespread sulphide occurrences. A more likely explanation is a black shale horizon in which the graphite content varies along strike and down dip, thus accounting for the range of conductances and



depths to the conductive sources. The bedrock strike measurements in the area are at variance with this interpretation, however these (rather infrequent) measurements may reflect small amplitude folding on a regional (i.e. at least over 3 to 4 kms.) west-north-west strike direction.

Anomaly H: two responses, grades 4 and X. These two anomalies are coincident. The grade X response (H1) does not, in this instance, indicate a very low amplitude response, but rather a manually picked anomaly that was not sufficiently separated from the large adjacent anomaly I7 to be automatically identified by the computer data processing. H may be a southern extension of zone D (500m. to the west-north-west), however the conductance for H is considerably higher (28 mhos for H2) and the depth of 24m. contrasts with 0m. for all of the quantifiable D anomalies. Thus anomaly H, despite its lack of any defined strike length, is of definite interest.

Zone I: thirteen responses, grades 5, 4 (7), 3 (3), 2 and X. This zone is similar to G mentioned above: the zones are subparallel (west-north-west) and I has a strike length of nearly 1800m. However the conductance values for the I anomalies which average around 20 mhos are consistently higher than the G anomalies. The zone overlies two old shafts (one directly beneath I11) but since the computed depth for most anomalies is 0m. (including I11), a long, conductive, shallow black shale band (with possibly associated and intermittent mineralisation) within the Onah Quartzite is the likely cause of Zone I. Countering this interpretation are the high angle bedrock strike directions near I12, but as was suggested above, these may be measurements of a microstructure on the regional west-north-west strike direction. A north-north-west striking fault (? lineament) has been mapped near these strike and dip measurements; this presumably has little horizontal displacement, since no offsets occur where it crosses zones F, I and M.

If there is any encouragement for mineralisation along this zone, the most promising Dighem target is I10 which has a conductance of 53 mhos at a depth of 36m., assuming a vertical, tabular source.



Anomaly J: one response, grade X. Like H2, this anomaly has been manually picked from the shoulder of an adjacent, large amplitude anomaly (I11). Little comment can be made about this anomaly for which there is no quantitative information, other than it may be an extension of the potentially interesting conductor H which lies 600m. to the west-north-west.

Zone K: two responses, grade 1 (2). This zone trends approximately north-east and is thus at a high angle to the trend of the zones described above. Both anomalies in the zone have been interpreted as having surficial causes and a conductive clay layer within the alluvial marsh deposits over which the zone occurs is a likely source. However the zone parallels zone L which probably overlies a geologic contact (as well as alluvium) and a similar feature (fracture or joint) may be (partly) responsible for this zone.

Zone L: two responses, grade X (2). This zone also apparently overlies alluvial marsh deposits, but it may also be coincident with the (? faulted) contact between a gabbro intrusion to the north-west and the Cambrian sediments (to the south-east). The zone may be extended through to anomaly N (an appropriately positioned response can be seen on the intervening flight line 250) where a definite response was recorded. For all three anomalies (L1, L2 and N) a surficial source has been interpreted and alluvium with some contribution from a contact or fracture/jointing is the likely cause.

Zone M: 6 responses, grades 3 (2), 2, 1 and X (2). This zone has a strike length of 900m. and has been defined by very large amplitude anomalies (e.g. M5 has responses over 100 ppm.). The two X responses probably also have large amplitudes, but there are unresolved from the adjacent anomalies to the north and south. Three of the anomalies have an interpreted depth of 0m. for a vertical tabular conductor, which suggests black shales as the source, noting again the presence of (one) countering bedrock strike measurement. M6, which has the lowest grade and weakest response of the definite anomalies in this zone, apparently overlies the old 'Sunshine' workings. The interpretation of this anomaly gives a 3 mho conductive source at 36m: the low amplitudes confer little reliability to these values, but they are of some interest if an association with mineralisation is confirmed by a ground EM survey.



Anomaly N: one response, grade 1. This strong response was discussed in zone L, since it is a probable extension of that zone. A near-surface conductive layer within the alluvium, and/or a geologic contact is the likely cause of the anomaly.

Anomaly O: one response, grade 1. Anomaly O also has a weakly conducting surficial source, and a similar cause(s) to that postulated for N is likely.

Zone P: two responses, grade 1 and X. Although P1 has not been designated a surface response ('S' anomaly), a surficial source is likely for both P 1 and P2. (The Dighem interpretation gives a bedrock conductor at 0m. for P1).

Anomaly Q: one response, grade X. A surficial response within alluvium is the likely source.

Anomaly R: one response, grade X. A surficial response within alluvium is the likely source.

CONCLUSIONS AND RECOMMENDATIONS

A total of eighteen zones and individual anomalies were defined by the Stonehenge Dighem survey: of this total, nine were a series of long subparallel linear conductive zones at the northern end of the area, trending approximately west-north-west. Five of these nine zones lie to the north of the lease and have not been further considered, but a similar cause to those within the lease is expected.

The west-north-west direction was noted by Both and Williams (1968) as being the strike direction for many of the prominent faults in the area and some zones (e.g. parts of G and F) closely follow nearby mapped faults (which did not respond). Further evidence for non strataform conductors is suggested by the varying, and often high angle to west-north-west, strike measurements. However the conductances (assuming a vertical, tabular source) for many of the anomalies are too high for barren faults which perhaps indicates some mineralisation within the faults, an indication reinforced by the fact that some old workings



apparently coincide with the conductive zones (e.g. Sunshine on zone M; Susannite on zone B; South Comstock on zone G). But for most of these zones, the interpreted depth to the source is zero, or nearly zero, metres. One possible explanation for these high conductances is very conductive ground water within the faults or fractures, caused by the widespread sulphide occurrences. (This could probably be tested by measuring the water conductivity at regular intervals across the zones). But since the prominent Balstrup and Tenth Legion Faults did not cause any EM responses, a more likely explanation is that the zones are due to graphitic shale bands and that the contrary bedrock strike measurements reflect small amplitude folding superimposed on the regional west-north-west strike direction.

The association with old workings may be apparent; the exact location of the workings may be considerably displaced from the conductive zone - a fact that can be verified by ground EM surveys, or it may be coincidental; since the only responses over old workings are those on the linear zones: there are no individual anomalies over any other indicated workings or prospects in Figure 1.

Two zones were defined which do not trend in a west-north-west direction: these are zones K and L which parallel each other in a roughly north-east direction. They both occur over alluvial marsh deposits, however it is likely that the responses are at least partly due to faults or geologic contacts. They appear to have no economic interest. (The west-north-west direction of the other zones may be a function of the flight line direction: the possibility of a series of shorter north, or north-north-east zones should be considered when planning or interpreting any follow up ground EM surveys.)

Surficial sources within alluvium are also probable causes of the isolated anomalies N, O, Q and R, all of which have been designated as surface responses on the Dighem EM maps.

This leaves three isolated anomalies undiscussed, only two of which (H and J) are inside the lease. It is quite possible (? probable) that these are expressions of a south-easterly extension of zone D and that therefore the remarks made above about all the zones may be applied to H and J, however the interpreted depth for H is 24m. and the conductance



is 28 mhos, whereas the zone D conductors were between 10 and 17 mhos, all with a depth of 0m. J is also a definite anomaly but it has no quantitative data since the response was not sufficiently resolved from the adjacent anomalies.

Thus the responses which should be included in any follow up surveys include:

H (an apparently isolated 28 mho conductor at 24m.) and J (an unresolved anomaly)

I10 (a 53 mho conductor at 36m.) and the adjacent anomaly I11, which is a 5 mho conductor at 0m. overlying an old shaft, and M6 which is also a weak conductor (of 3 mhos), but at 36m., and which apparently overlies the old 'Sunshine' workings.

A cause for (? part of) zone G could perhaps be sought in the creek near G18 (which had very large responses for an interpreted outcropping conductor).

J.R. Bishop
October, 1982



REFERENCES

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BOTH, R.A. and WILLIAMS, K.A., 1968. Mineralogical zoning in the lead-zinc ores of the Zeehan field, Tasmania, (parts 1 and 2). J. Geol. Soc. Aust. 15(1) p. 121-137 and 15(2) p. 217-243.

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TABLE 1

EM Anomaly List

(in approximately geographical order from the north and numbered within zones from west to east)

Anomaly or Zone	Dihem Label	Grade	Responses				Vertical Dyke mhos depth (m)		Interpretation Horiz. Sheet mhos depth (m)		Conduct. earth ohm-m depth (m)	
			Coaxial IP	Coplanar OP	IP	OP						
A	600m east of lease boundary											
B	at least 350m north of lease boundary											
C	at least 400m north of lease boundary											
D	at least 150m north of lease boundary											
E	at least 250m north of lease boundary											
F	between 120m and 200m outside of the lease boundary											
F1	400A	1	3	9	2	22	2	0	2	53	45	19
F2	390A	1	8	17	6	37	3	0	2	41	47	11
F3	410XA											
F4	440A	1	1	1	3	7	2	17	3	59	25	33
F5	430A	2	1	2	8	10	5	24	3	55	20	31
F6	420A	1	4	8	1	6	3	1	1	77	93	32
F7	450A	1	7	20	0	33	2	0	1	29	101	0
F8	460A	1	3	5	0	0	4	25	1	76	79	33
G	G1 to G4 outside of lease boundary											
G5	330C	1	1	8	0	3	3	11	1	43	92	6
G6	340B	1	3	8	0	9	2	5	1	50	78	16
G7	350B	2	26	31	25	43	8	3	2	39	46	12
G8	360B	2	9	9	11	15	7	11	2	57	55	23
G9	370C	1	0	4	0	7	4	24	1	33	141	0
G10	380XA											
G11	400XA											
G12	390C	1	7	9	4	15	4	22	1	49	82	17
G13	410B	2	11	10	2	6	7	16	1	36	83	4
G14	430XA											
G15	420C	1	10	14	5	17	4	0	1	25	74	0
G16	450D	1	5	7	0	11	4	13	1	45	73	11
G17	460C	1	6	9	2	15	3	0	1	41	57	7
G18	470C	3	45	48	82	102	13	0	2	22	21	0
H1	440XA											
H2	430B	4	10	0	15	9	28	24	3	51	14	30

118

502118

DIGHEM (Absolute) TURAIR (Relative)

950
62900
850
62800
900
750
800
62700
800
62650
750
600

GAMMAS

STONEHENGE
(Dighem survey)
(magnetic south-north profile)

shallow residual
anomaly

QUEEN HILL
(Turair survey)
(magnetic S.E.-N.W. profile)

NOTE: Survey heights would be approximately the same for the Dighem and Turair surveys.

5 cm

83-2052W

MITRE GEOPHYSICS PTY. LTD.

STONEHENGE & QUEEN HILL

MAGNETIC ANOMALIES

DRAWN BY : J.B.

DRAFTSMAN: S.F.

DATE : Oct. 82

REVISIONS :

FILE NO. T.H.387

FIG. 36

SCALE 1:10000



Ref: RN./M.G.82/15

APPENDIX 6.

Stonehenge Grid - Ground Magnetics Data.

120

GOLD FIELDS EXPLORATION PTY. LIMITED

502120 (A)

GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: Stonehenge Grid - Base station

DATE: 8-11-82

MAGNETOMETER:

OPERATOR: POLTOCK BROS.

BASE STATION LOCATION: 200E. 150S.

POLTOCK BROS
200 E. 150 S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
Base	11-15am	2489			
.	11-20	488			
.	11-25	487			
.	11-30	487			
.	11-35	486			
.	11-40	486			
.	11-45	486			
.	11-50	485			
.	11-55	484			
.	12-00	483			
.	12-05pm	483			
.	12-10	483			
.	12-15	482			
.	12-20	482			
.	12-25	482			
.	12-30	481			
.	12-35	481			
.	12-40	481			
.	12-45	481			
.	12-50	482			
.	12-55	481			
.	1-00	480			
.	1-05	480			
.	1-10	479			
.	1-15	478			
.	1-20	477			
.	1-25	476			
.	1-30	475			
.	1-35	474			
.	1-40	473			
.	1-45	473			
.	1-50	473			
.	1-55	473			
.	2-00	473			

121

GOLD FIELDS EXPLORATION PTY. LIMITED

502121 (B)

GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID - BASE STATIONDATE: 8 - 11 - 82MAGNETOMETER:OPERATOR: POLTOCK BROS.BASE STATION LOCATION:

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
Base	2:05pm	2474			
	2:10	474			
	2:15	473			
	2:20	473			
	2:25	473			
	2:30	473			
	2:35	472			
	2:40	472			
	2:45	472			
	2:50	472			
	2:55	472			
	3:00	473			
	3:05	474			
	3:10	474			
	3:15	476			
	3:20	476			
	3:25	476			
	3:30	477			
	3:35	477			
	3:40	477			
	3:45	478			
	3:50	479			
	3:55	478			
	4:00	479			
	4:05	480			
	4:10	480			
	4:15	480			
	4:20	480			
	4:25	481			
	4:30	481			
	4:35	482			
	4:40	481			
	4:45	482			
	4:50	483			

123

GOLD FIELDS EXPLORATION PTY. LIMITED

502123

GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONE HENGE GRID - BASE STATIONDATE: 9-11-82MAGNETOMETER:OPERATOR: PALTOCK BROS.BASE STATION LOCATION:

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
Base	7:40am	2471			
	7:45	475			
	7:50	475			
	7:55	477			
	8:00	477			
	8:05	477			
	8:10	476			
	8:15	476			
	8:20	476			
	8:25	477			
	8:30	477			
	8:35	478			
	8:40	478			
	8:45	478			
	8:50	479			
	8:55	479			
	9:00	479			
	9:05	480			
	9:10	479			
	9:15	481			
	9:20	481			
	9:25	480			
	9:30	480			
	9:35	481			
	9:40	481			
	9:45	481			
	9:50	481			
	9:55	483			
	10:00	482			
	10:05	481			
	10:10	480			
	10:15	480			
	10:20	478			
	10:25	478			

124

GOLD FIELDS EXPLORATION PTY. LIMITED

502124 (E)

GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONE HENGE GRID - BASE STATIONDATE: 9-11-82MAGNETOMETER:OPERATOR:BASE STATION LOCATION:MOLTOCK PROS.
GEO. CONTRACT

Station	Time	Magnetic Reading	Base reading	Corrected Reading	Cultural Features
Base	10-30am	2479			
	10-35	480			
	10-40	485			
	10-45	487			
	10-50	486			
	10-55	484			
	11-00	487			
	11-05	485			
	11-10	480			
	11-15	479			
	11-20	479			
	11-25	479			
	11-30	479			
	11-35	480			
	11-40	482			
	11-45	482			
	11-50	482			
	11-55	482			
	12-00	480			
	12-05pm	481			
	12-10	479			
	12-15	479			
	12-20	478			
	12-25	481			
	12-30	481			
	12-35	480			
	12-40	479			
	12-45	479			
	12-50	479			
	12-55	479			
	1-00	476			
	1-05	476			
	1-10	478			
	1-15	478			

125

GOLD FIELDS EXPLORATION PTY. LIMITED

502125 (1)

GROUND MAGNETOMETER SURVEY

PAGE NO: 3

LOCATION: STONEHENGE GRID - BASE STATIONDATE: 9.11.82.MAGNETOMETER:OPERATOR:MILTON PROS.
CONTRACTORSBASE STATION LOCATION:

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
Base	1:20pm	2478			
	1:25	479			
	1:30	481			
	1:35	482			
	1:40	479			
	1:45	479			
	1:50	481			
	1:55	480			
	2:00	477			
	2:05	481			
	2:10	479			
	2:15	481			
	2:20	474			
	2:25	479			
	2:30	479			
	2:35	481			
	2:40	483			
	2:45	485			
	2:50	485			
	2:55	485			
	3:00	486			
	3:05	486			
	3:10	487			
	3:15	490			
	3:20	487			
	3:25	485			
	3:30	485			
	3:35	487			
	3:40	490			
	3:45	491			
	3:50	492			
	3:55	493			
	4:00	493			
	4:05	491			

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GOLD FIELDS EXPLORATION PTY. LIMITED

502127 (H)

GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE GRID - BASE STATION

DATE: 10.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S

POLYLOCK PROS.
GEO. CONTRACTORS

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
Base	8:15am	2480			
	8:20	484			
	8:25	484			
	8:30	484			
	8:35	484			
	8:40	485			
	8:45	484			
	8:50	485			
	8:55	484			
	9:00	482			
	9:05	481			
	9:10	479			
	9:15	479			
	9:20	482			
	9:25	481			
	9:30	481			
	9:35	480			
	9:40	481			
	9:45	482			
	9:50	482			
	9:55	482			
	10:00	483			
	10:05	485			
	10:10	488			
	10:15	487			
	10:20	487			
	10:25	484			
	10:30	485			
	10:35	482			
	10:40	486			
	10:45	486			
	10:50	486			
	10:55	484			
	11:00	484			

120

GOLD FIELDS EXPLORATION PTY. LIMITED

502128

GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID - BASE STATION

DATE: 10. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION:

200E 150 S

HOLTOCK BROS.
GEO. CONTRACTORS

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
Base	11:05am	2482			
	11:10	488			
	11:15	485			
	11:20	485			
	11:25	486			
	11:30	486			
	11:35	484			
	11:40	484			
	11:45	483			
	11:50	482			
	11:55	481			
	12:00	482			
	12:05pm	481			
	12:10	479			
	12:15	474			
	12:20	473			
	12:25	472			
	12:30	473			
	12:35	473			
	12:40	474			
	12:45	475			
	12:50	476			
	12:55	475			
	1:00	476			
	1:05	473			
	1:10	472			
	1:15	472			
	1:20	471			
	1:25	471			
	1:30	469			
	1:35	469			
	1:40	470			
	1:45	470			
	1:50	470			

GOLD FIELDS EXPLORATION PTY. LIMITED

GROUND MAGNETOMETER SURVEY

LOCATION: STONEHENGE GRID - BASE STATION

DATE: 10-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S

POLYOCK BROS.
GEO. CONTRACTORS

Station	Time	Magnetic Reading	Error Reading	Corrected Reading	Cultural Features
Base	1.55pm	2471			
	2.00	471			
	2.05	471			
	2.10	471			
	2.15	472			
	2.20	474			
	2.25	474			
	2.30	476			
	2.35	477			
	2.40	478			
	2.45	477			
	2.50	477			
	2.55	478			
	3.00	478			
	3.05	480			
	3.10	481			
	3.15	480			
	3.20	483			
	3.25	485			
	3.30	486			
3.35	487				
3.40	487				
3.45	488				
3.50	488				
3.55	488				
4.00	487				
4.05	487				
4.10	487				
4.15	487				
4.20	487				
4.25	486				
4.30	487				
4.35	488				
4.40	489				

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GOLD FIELDS EXPLORATION PTY. LIMITED

502131

GROUND MAGNETOMETER SURVEY

PAGE NO: 1.

LOCATION: Stonehenge Grid - Base Station

DATE: 11-11-'82

MAGNETOMETER:OPERATOR: PollockBASE STATION LOCATION: 200E 150S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
BASE	7.45	62 472			
	7.50	471			
		469			
	8.00	475			
		474			
		473			
		470			
		469			
		472			
	8.30	473			
		471			
		473			
		473			
		472			
		472			
	9.00	471			
		472			
		473			
		475			
		475			
		476			
	9.30	476			
		475			
		476			
		478			
		478			
		478			
	10.00	476			
		475			
		474			
		474			
		475			
		476			
	10.30	476			

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GOLD FIELDS EXPLORATION PTY. LIMITED

502132

GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: Stone heap Grid Base StationDATE: 11-11-82MAGNETOMETER:OPERATOR: PollockBASE STATION LOCATION: 200.E 150.S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
BASE	10:35	62476			
		478			
		479			
		480			
		480			
	11:00	483			
		483			
		483			
		480			
		476			
		477			
	11:30	478			
		477			
		477			
		474			
		472			
		470			
	12:00	468			
		467			
		468			
		468			
		467			
		465			
	12:30	461			
		460			
		458			
		457			
		458			
		458			
	1:00	460			
		461			
		462			
		462			
		466			

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION: STONEHENGE GRID

DATE: 27/1/83
+ 28/1/83

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200 E 150 S

P. Komyshan
& R. Whitehouse

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
BASE	4.10	62486			
		486			
	4.20	486			
		487			
	4.30	487			
		486			
	4.40	485			
		484			
	4.50	484			
		484			
	5.00	485			
		485			
	5.10	485			
		486			
	5.20	485			
		485			
	5.30	486			
BASE	28/1/83				
	10.35	62457			
	10.40	62458			
		458			
	10.50	459			
		460			
	11.00	461			
		462			
	11.10	462			
		463			
	11.20	464			
		464			
	11.30	465			
	11.35	465			

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GOLD FIELDS EXPLORATION PTY. LIMITED

502135

GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION: STONEHENGE GRID - BASE STATION

DATE: 27/1/83

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150 S

P. Komyskan
R. Whitehouse

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
BASE	1.20	62456			
		456			
	1.30	456			
		459			
	1.40	459			
		460			
	1.50	462			
		464			
	2.00	463			
		465			
	2.10	466			
		466			
	2.20	466			
		465			
	2.30	466			
		467			
	2.40	468			
		468			
	2.50	468			
		470			
	3.00	471			
		473			
	3.00	474			
		476			
	3.20	477			
		478			
	3.30	478			
		479			
	3.40	479			
		480			
	3.50	480			
		482			
	4.00	483			
		485			

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GOLD FIELDS EXPLORATION PTY. LIMITED

502136

GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE GRID - 00E LINE

DATE: 8.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S.

(62460 8)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
075N	11:30am	62577	62487 ²⁷	62550	
		573		546	
050N		567		540	
		562		535	
025N		553	62486 ²⁴	527	
		548		522	
B/L 000		541		515	
		533		507	
025S	11:40	523	62486 ²⁴	497	
		514		488	ROAD
050S		509		483	ROAD
		506		480	STREAM
075S		504	62486	478	
		502		476	
100S		502		476	
		501		475	
125S		501	62485 ²⁵	476	
		500		475	
150S		503		478	
		506		481	
175S	11:55	507	62484	483	
		505		481	
200S		499		62475	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502137(2)

GROUND MAGNETOMETER SURVEY

PAGE NO: 1.

LOCATION: STONEHENGE GRID - 200E LINE

DATE: 8.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S.
(62460 gammas)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
125N	12.10	62587	62483 ²³	62564.	
		593		570	
100N		603		580	
		630		607	
75N		648		625	
		527		504	
50N		423	62482 ²²	401	
		498		476	
25N		542		520	
		551		529	
00		548		526	
		554	62482 ²²	532	
25S		536		511	
		530		508	
50S		523		501	
		516		494	
75S	12.25pm	516	62482 ²¹	494	
		510		488	
100S		496		474	ROAD
		487		465	
125S		488		466	
		487	62481 ²¹	466.	
150S		484		463	BASE STATION
		484		463	
175S		479		458	
		479		458	
200S		481		460	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502138

GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE GRID - 400E LINE

DATE: 8-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION:

200E 150S.

(62460 gamma)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
200S		62546		62525	
	12:35	548 ²¹	62481 ²¹	527	
175S		551		530	
		552		531	
150S		557		536	STREAM
		566		545	
125S		574		553	
		573		552	
100S		575		554	
		582		561	ROAD
75S		585		564	
		593		572	
50S		593		572	
		594		573	
25S		593		572	
		593	62481 ²¹	572	
R/L	12:45	595		574	
		593		572	
25N		593		572	
		588		567	
50N		588		567	
		586		565	
75N		601		580	STREAM
		599		578	
100N		600	62482 ²²	579	
		600		57	
125N		592		570	STREAM
		594		572	STREAM
150N		596		574	STREAM
		595		573	
175N	12:53	600		578	
		607		586	
200N	12:55	610	62481 ²¹	589	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502139

GROUND MAGNETOMETER SURVEY

PAGE NO: 1.

LOCATION: STONEHENGE GRID- 600E LINE DATE: 8-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION:

62460 gammas. 200E 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
275N	1.15pm	62660	62478 ¹⁸	62642	
		656		638	
250N		658		640	
		682		664	
225N		712		694	STREAM
		728		710	STREAM
200N		682		664	STREAM
		644	62477 ¹⁷	627	STREAM
175N		649		632	STREAM
		663		646	STREAM
150N	1.22pm	665		648	STREAM
		675		658	STREAM
125N		683		666	STREAM
		693		676	
100N		708	62476 ¹⁶	692	
		708		692	
75N	1.27pm	701		685	
		691		675	
50N		697		681	
		694		678	
25N		694		678	
		702		686	
B/L	1.30pm	698	62475 ¹⁵	683	
		692		677	
25S		698		683	ROAD
		696		681	
50S		705		690	
		721		706	
75S		721		706	
		714		699	
100S		704		689	
		675	62474 ¹⁴	660	
125S		653		639	
		666		652	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502141

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE GRID - 800E LINE

DATE: 9. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gammas.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
400S	1.52pm	62750	62473 ¹³	62737	
		766		753	
375S		778		765	
		790		777	
350S		794		781	
		797		784	
325S		789		776	
		788		775	
300S		787		774	
		786		773	
275S		784		771	
		788		775	
250S		777		771	
		774		761	
225S	2.00pm	761	62473 ¹³	748	
		750		737	
200S		738		725	
		733		720	
175S		718		718 705	ROAD
		730		717	
150S	2.05pm	712	62474 ¹⁴	698	
		685		671	
125S		732		718	
		698		684	
100S		706		692	
		728		714	
75S		754		740	
		798		784	
50S		855		841	
		860		846	
25S		852		838	
		850		836	
B/L	2.10pm	856	62474 ¹⁴	842	
		861		847	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502142

GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID - 800E LINE

DATE: 9.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gammas.

Location	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
25N		62868	62474 ["]	62854	
		867		853	
50N		860		846	
		858	62473 ["]	845	
75N		853		840	
		840		827	
100N		835		822	
		823		810	
125N		814		801	
		804		791	STREAM
150N	2.20pm	785	62473 ["]	772	
		777		764	
175N		768		755	
		763		750	
200N		752		739	
		745		732	
225N		738		725	
		730		717	
250N		729		716	
		723		704	
275N		717		700	
		713		691	
300N		710		697	
		704		691	
325N	2.28pm	700	62473 ["]	687	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1.

LOCATION: STONE HENGE GRID - 900E LINE DATE: 8. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gammas.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
375N		62725	62473 ¹³	62712	
		721		708	
350N	2.34pm	723		710	
		729		716	
325N		730	62472 ¹²	718	
		729		717	
300N		734		722	
		733		726	
275N		741		729	
		746		734	
250N		749		737	
		760		748	
225N		763		751	
		776		764	
200N		782		770	
		793		781	
175N		800		788	
150N	3.40pm	810	62477 ¹²	798	
		818		806	
		829		817	
125N		843		831	
		856		844	
100N		874		862	
		890		878	
75N		904		892	
		921		909	
50N	2.47pm	937		925	
		954		942	
25N		976		964	
		987		975	
B/L	2.50pm	63000	62472 ¹²	62988	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION: LINE 900E

DATE: 28/1/83

MAGNETOMETER:

OPERATOR: P.K

BASE STATION LOCATION: 200E, 150S
(62460 gammas)

R.W

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
025 N	11.15	62968	-3	62965	
		985		982	
00 S		990		987	
		940		937	
025 S		977		974	
		940		937	
050 S	11.20	917	-4	913	
		920		916	creek
075 S		930		926	
		922		918	break in slope
100 S		850		846	
		764		760	
125 S	11.25	721	-4	728	
		720		716	
150 S		722		718	
		730		726	
175 S		741		737	
		757		753	
200 S		759		755	
		779		775	
225 S	11.30	790	-5	785	
		804		799	
250 S		817		812	Road
		825		820	
275 S		832		823	
		838		833	
300 S	11.34	846	-5	841	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE GRID - 1000E LINE DATE: 8.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S.

62460 gammas.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
81E		63123	62472 ¹²	63111	
		088		076	
25N	2.57pm	053		041	
		028	62473 ¹³	015	
50N		62995		62982	
		965		952	
75N		948		935	
		927		914	
100N		913		900	
		900		887	
125N		882		869	
		870		857	
150N		861		848	
		851	62474 ¹⁴	837	
175N		842		828	
		829		815	
200N		820		806	
		816		802	
225N		815		801	
		804		790	
250N		790		776	
		781		767	
275N		774		760	
		774		760	
300N	3.10pm	771	62474 ¹⁴	757	
		768		754	
325N		765		750	
		763		748	
350N		760	62476 ¹⁶	744	
		758		742	
375N		759		743	
		757		741	
400N	3.20pm	62754	62476 ¹⁶	738	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID- 1000E LINE DATE: 8. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 ggrmmas.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
B/L	3.56pm	63127	62478 ¹⁸	63109	
		162		144	
255		187		169	
		188		170	
505		138		120	
		051		033	
755		62980	62479 ¹⁹	62961	
		929		910	
1005		899		880	
		862		843	
1255		832		813	
		812		793	
1505	4.05pm	803	62480 ²⁰	785	STREAM + METAL
		797		777	
1755		799		779	
		806		786	
2005		814		794	
		823		803	
2255		836		816	
		850		830	
2505		863		843	
		868		848	
2755		867		847	
		872		852	
3005		875		855	
		873		856 863	ROAD
3255		879		859	
		889		869	
3505		897		877	
		893		873	
3755		898		878	
		892		872	
4005	4.15pm	885	62480 ²⁰	865	
		881		861	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE GRID - 1100E LINE DATE: 8. 11. '82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gammas.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
450N	3.30pm	62768	62477"	62751	
		765		748	
425N		766		749	
		766		749	
400N		771		754	
		771		754	
375N		775		758	
		780		763	
350N		786		769	
		818		801	
325N		794		777	
		799		782	
300N	3.37pm	805		780	
		816		799	
275N		819		802	
		823		806	
250N		830		813	
		838		821	
225N		848		831	
		855		838	
200N		868		851	
		876		859	
175N		888		871	
		898		881	
150N	3.45pm	915	62478"	897	
		921		903	
125N		941		923	
		962		944	
100N		976		958	
		998		990	
75N		63022		63004	
		031		013	
50N		068	63479"	049	
		066		047	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1.

LOCATION: STONE HENSE GRID - 1200E LINE DATE: 8. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

(62460 gammas)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
600S	4.50pm	62785	62483 ²³	62762	
		789		766	
575S		797		774	
		601		578	
550S		804		781	
		809		786	
525S		815		792 ✓	
		825		802 ✓	
500S		826		803	
		830		807	
475S		830		807	
		831		808	
450S	4.55pm	832	62485 ²⁵	807	
		-		-	ROAD
425S		830		805	
		834		809	
400S		836		811	
		830		805	
375S		838		813	
		844	62485 ²⁵	819	
350S		846		821	
		849		824	
325S		850		825	METAL
		874		849	METAL
300S		876		851	
		930		805	
275S	5.04pm	893		868	
		846	62486 ²⁶	870	
250S		898		872	
		898		872	
225S		895		869	
		890		864	
200S		888		862	
		887		861	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION:

LINE 1100 E

DATE: 28/1/83

MAGNETOMETER:

OPERATOR: P.K.

R.W.

BASE STATION LOCATION: 200 E, 150 S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
400 S	10.42	62829	+2	62831	
		827		829	
375 S	10.45	782	+2	784	
		844		846	
350 S		833		835	
		831		833	
325 S		837		839	
		837		839	
300 S		842		844	
		841		843	
275 S	10.50	840	+1	841	
		840		841	
250 S		837		838	
		833		833	
225 S		828		828	gossan & track
		842		842	gossan & track
200 S		858		858	
		867	0	867	
175 S		859		859	
		967		967	shaft.
150 S		668		668	
		997		997	break of slope.
125 S		999		999	
		990		990	
100 S	11.00	974	-1	973	
		957		956	
075 S		956		955	
		62971		62970	
050 S		63013		63012	
		045		044	
025 S	11.05	069	-2	067	
		079		077	
00		080		078	
		071		069	
025 N		077		075	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID - 1200E LINE

DATE: 8.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S.

62450 gammas.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
175S		62879	62486 ²⁶	62853	
		63000		894 62 810 974	METAL
150S		63121		778 63 925 095	METAL
		63015		62989	
125S	5.12pm	63003		977	
		63004		978	
100S		62998		972	
		994		968	
75S		990		964	
		985	62487 ²⁷	958	
50S		986		959	
		992		965	
25S		63008		971	
		63022		995	
B/L	5.18pm	63040		63013	
		050		023	
25N		053		026	
		049		022	
50N		044		017	
		040		013	
75N		030		003	
		022	62488 ²⁸	62994	
100N		015		989	
		004		976	
125N		62994		966	
		982		971	
150N		972		944	STREAM
		960		932	
175N		947		919	
		939		911	
200N	5.22pm	923		895	
		912		884	
225N		905		877	
		895		867	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 3

LOCATION: STONE HENGE GRID - 1200E LINE

DATE: 8. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E . 150S.

(62460 gammas)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
250 N		62888	62489 ²¹	62859	
		877		848	
275 N		870		841	
		863		834	
300 N		854	62490 ³⁰	824	
		848		818	
325 N	5.32pm	843		813	
		831		801	
350 N		828		798	
		825		795	
375 N		824		794	
		821	62491 ³	790	
400 N		822		791	
		823		792	
425 N		823		792	
		824		793	
450 N		827		796	
		827		796	
475 N	5.40pm	62830	62490 ³⁰	800	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONE HENCE GRID - 1300 E LINE DATE: 8.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E · 150S.

62460 gammas.

Station	Time	Magnetic Reading	Base ading	Corrected Reading	Cultural Features
500N		62837		62 808	
		838		809	
475N		839		810	
	5.45pm	841	62489 ²⁹	812	
450N		845		816	
		844		815	
425N		846		817	
		848		819	
400N		852		823	
		855		826	
375N		859		830	
		858		829	
350N	5.50pm	857	62400 ³⁰	829	
		862		832	
325N		870		840	
		877		847	
300N		886		856	
		895		865	
275N		902		872	
		910		880	
250N		920		890	
		934		904	
225N		938	62490 ³⁰	908	
		949		919	
200N		957		927	
		967		937	
175N		974		944	
		985		955	
150N	5.58pm	990		960	
		990		960	
125N		63004		972	
		63014	62489 ²⁹	985	
100N		021		992	
		023		994	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

STONE HENGE

LOCATION: LINE 1300 E

DATE: 27/1/83

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200 E, 150 S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
025 N	4:48	63034	-24	63010	
		035		011	
00 N	4:50	034	-24	010	
		035		011	
025 S		036		012	
		044		020	
00 S		048		024	
		047		023	
075 S	4:55	036	-24	012	
		031		007	
100 S		014		990	
		63001		997	
125 S		62999		965	
		979		955	
150 S		969		945	
		962		940	
175 S	5:00	954	-25	931	
		947		924	
200 S		941		916	
		935		910	
225 S		931		906	
		928		903	
250 S		922		907	
	5:05	913	-25	888	
275 S		908		883	
		900		875	
300 S		888		873	
		880		865	
325 S		873		858	
	5:10	869	-25	854	
350 S		861		846	
		859		844	
375 S		852		837	
		854		839	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONE HENGE 1400E.

DATE: 9 Nov. 82

MAGNETOMETER:

OPERATOR: Paltuck

BASE STATION LOCATION: 200E 150S

62460 gammas CHECKED 10.35AM. 9/11/82

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
700 S	11.00	62765	62487 ¹⁷	62738	
		62771		744	
675 S		62777		760	
		62785	6	769	
650 S		62796		780	
		62803		787	
625 S		62809		793	
		62814	62485 ¹⁵	799	
600 S		62823	6	807	
		62829		813	
575		62837	37	820	
		62842	28	824	
		62850		830	
		62851	19	832	
525 S	11.10	62860	62480 ²⁰	840	
		62863		843	
500 S		62867		847	ROAD
		62868		848	
475 S		62870	62479 ¹¹	851	
		62873		854	
450		62873		854	
		62874		855	
425 S	11.20	62878	62479 ¹⁹	859	
		62871		852	
400		62881		862	
		62888		869	
375		62892		873	
		62898		879	
350 S		62904		885	
		62908		889	
325		62911		892	
		62916		895	
300		62922		903	
		62928		909	
275 S	11.0	62937	62470 ¹²	912	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE 1/400 EAST LINE

DATE: 9/11/82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S

62460 Gauss

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		62937	62479"	62 918	
250S		62936		917	
		62941		922	
225S		62946		927	
		62947		928	
200 S.		62951	62480"	931	
		62951		931	
175S		62952		932	
		62952		933	
150S		62954		935	
		62952		932	
125 S.	11.40	62952	62482"	930	
		62955		934	
100 S		62957		935	
		62961		939	
75S		62966		944	
		62968		946	
50 S.		62971		949	
		62978		956	
25S		62982		960	
		62987		965	
BASE LINE		62990		968	
		62991		969	
25 N.		62991		969	
		62998		976	
50 N		62997		975	
	11.50	62999	62482"	977	
75 N		63003		981	
		63008		986	
100 N.		63006		984	
		63002		980	
125 N		62999		977	
		62992		970	
150 N		62986		964	
		17078		956	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 3

LOCATION: STONEHENGE 1400 EAST LINE

DATE: 9 Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S

62460 gammas

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
175 N.		62975	62482 ²²	62953	
		965		943	
200 N		958		936	
		950		928	
225 N		943		922	
		936		915	
250 N.		927		906	
		918		897	
275 N		916	62480 ²⁰	896	
		911		891	
300 N		907		887	
		902		882	
325 N.		901		880	
		901		880	
350 N		898		878	
		894		874	
375 N		885		865	
		865		845	
400 N.	12.05	856	62481 ²¹	835	
		843		822	
425 N		836		815	
		827		807	
450 N		817		797	
		812		792	
475 N.		810	62479 ¹⁹	791	
		809		790	
500 N		804		785	
		801		782	
525 N.		798		777	
		793		772	
550 N.	12.15	789	62479 ¹⁹	768	

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LOCATION: STONEHENGE 1500 EAST LINE

DATE: 9 Nov. 82.

MAGNETOMETER:

OPERATOR: P. Ockler

BASE STATION LOCATION: 200E 150S

(CHECKED) 10.35 AM. 9/11/82.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
550 N.	12.25	62785	62481 ²¹	62764	
		792		771	
		797		776	
		803		782	
		809		788	
375 N.		813	62481 ²¹	792	
		821		800	
		824		803	
		827		806	
		829		808	
400 N.	12.25	835	62480 ²⁰	814	
		842		821	
		846		826	
		855		835	
		863		843	
		873		853	
		879		859	
		887		867	
		894		874	
		901		880	
225 N.		911	62479 ¹⁹	891	
		926		907	
		932		913	
		939		920	
		947		928	
250 N.		957		933	
		951		932	
		962		943	
		965		946	
		969		950	
175 N.	12.45	972	62479 ¹⁹	953	
		976		957	
		979		960	
		982		963	
		982		963	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

STONE HENGE

LOCATION: LINE 1500 E

DATE: 27/1/83

MAGNETOMETER:

OPERATOR: P.K.
R.W.BASE STATION LOCATION: 200 E, 150 S
(62460 gamma)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
500 S	4.10	62904	-26	62878	
		907		882	
475 S		911		885	
		914		888	
450 S		919		893	
		923		897	
425 S		924		898	
		929		903	
400 S		932		906	
	4.15	935	-26	909	
375 S		940		914	
		942		916	
350 S		943		917	
		945		919	
325 S		948		922	
		948		922	
300 S		952		926	
	4.20	952	-26	926	
275 S		953		927	
		955		929	
250 S		956		930	
		958		932	
225 S		958		932	
		958		932	
200 S	4.25	956	-27	929	
		958		931	
175 S		958		931	
		956		929	
150 S		961		934	
		956		929	
125 S	4.30	956	-27	929	
		955		928	crack
100 S		958		931	
		956		929	

LOCATION: STONEHENGE 1600 EAST LINE.

DATE: 9 Nov. 82

MAGNETOMETER:

OPERATOR: P. K. K.

BASE STATION LOCATION: 200E 150S

62460 (Gauss) CHECKED 10.35 AM. 9/11/82.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
1600N	1.35	62762	62482 ²²	62740	
		767		745	
575N		770	62480 ²¹	749	
		777		756	
550N		780	62480 ²⁰	760	
		787		767	
525N		795	62479 ¹⁹	776	
		799		780	
500N		805		786	
		815		796	
475N		819		800	
		825		806	
450N		820	62479 ¹⁹	810	
		831		812	
425N		834		815	
		840	62480 ²⁰	820	
400N		850		830	
		859		839	
375N	1.50	866	62481 ²¹	845	
		870		849	
350N		879		858	
		889	62480 ²⁰	869	
325N		895		875	
		903		883	
300N		908	62480 ²⁰	888	
		913		893	
275N		919	62479 ¹⁹	900	
		923		904	
250N		930	62478 ¹⁸	902	
		935		917	
225N	2.00	939	62477 ¹⁷	922	
		943		926	
200N		945	62478 ¹⁸	927	
		950		932	
				926	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE 1600 EAST LINE

DATE: 9 Nov.

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S

62460 gauss

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		62957		62938	
150N		962	62480 ²⁰	942	
		969		949	CREEK
125N		974		954	
		977	62481 ²¹	956	
100N		982		961	
		989		968	
75N		986		965	
		987	62480 ²⁰	967	
50N		989		969	
		989		969	
25N		989		969	
		986		966	
BASE LINE COE.	2.16	978	62479 ¹⁹	959	
	3.08?	989	62487 ²⁷	962	
25S		988		961	
		987		960	
50S		984		956	
		983		955	
75S		980		951	
		976		947	
100S		975		946	
	3.15	973	62490 ³⁰	943	
125S		970		940	
		968		938	
150S		964		940	
		964		935	
175S		965		936	CREEK
		963		935	
200S		962		934	
		962		934	
225S	3.20	961	62487 ²⁷	934	
		960		933	
250S		961		934	
		960			

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 3

LOCATION:

STONEMENCE 1600 EAST LINE

DATE:

9/11/82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S

62460 (gamma.)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
275		62464		62 937	
		963	62486 ²⁶	937	
300 S.		962		936	
		962		936	
		960	62485 ²⁵	935	
		962		937	
		961		936	
		961		936	
		963		938	
		961		936	
		958		933	
		958		933	
		957		932	
450 S	3.30	952	62485 ²⁵	937	
		952		937	CREEK & PIPE
		940		915	
		937		912	
		932	62486 ²⁶	906	
		937		911	TRAM TRACK
		916		890	
525 S		911	62487 ²⁷	884	
		908		881	
		903		875	
		897		869	CREEK
		893		864	
		884		855	
600 S.	3.40	885	62490 ³⁰	855	
		875		845	DUMP
		869		839	DUMP
		861		831	
		855		825	
		849		819	
675 S.		841	62491 ³¹	810	
		820		798	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 4

LOCATION: STONHENGE 1600 EAST LINE

DATE: 9 Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S

62460 gamma

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		62815	62491 ³¹	62784	
		814		783	
		805		774	CREEK.
750S	3.50	800	62492 ³²	768	CREEK.
		795		763	CREEK.
		789		757	
		782		750	
		775	62493 ³³	742	
		769		736	
825S.		766		733	
		761		728	
		752	62493 ³³	719	
		750		717	
		741	2	709	CREEK.
		740		708	CREEK
900S.	4.05	737	62491 ³¹	706	CREEK

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE 1700 EAST LINE

DATE: 9 Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: Lone 150.5

62460 gamma

CHECKED 10.35 AM. 9/11/82.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
100 S	2.15	62005	62481 ²¹	62984	
		013		992	
75 S		016		995	
		016		995	
50 S		012		991	
		011		990	
25 S		011		990	
		003		982	
BASE LINE 00E		008	62480 ²⁰	983	
		008		988	
25 N		004		984	
		62998		978	
50 N		002		973	
		004		974	
75 N	2.30	089	62479 ¹⁹	970	
		085		966	
100 N		078		959	
		074	62481 ²¹	953	
125 N		072		951	
		070	62482 ²²	948	
150 N	2.40	069	62483 ²³	946	
		069		946	
175 N		059		936	
		058	62484 ²⁴	934	
200 N		058		929	
		047		923	
225 N		042	62485 ²⁵	917	
		038		913	
250 N		029		904	
		026		901	
275 N		023		898	
		016		891	
300 N	2.50	011	62485 ²⁵	886	
		003		898	
		000		892	

CREEK.

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE 1700 EAST LINE

DATE: 9/11/82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E ISO.S

62460 gamma CHECKED 10.35 AM 9/11/82

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		62892	62485 ²⁵	62867	
350N		882		857	
		873		848	
375N.		872		847	
		866		841	
400N		855		830	
		847		822	
425N		844		819	
		839		814	
450N.	300	833	62486 ²⁶	807	
		826		800	
475N		820		794	
		812		790	
500N		810		784	
		803		777	
525N.		797		771	
		794		768	
550N.	305	788	62486 ²⁶	762	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION: LINE 1700 EDATE: 27/1/83MAGNETOMETER:OPERATOR:BASE STATION LOCATION: 200E, 150S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
050 S	3.31	63022	-18	63004	
		022		004	
075 S		021		63003	
		016		62998	
100 S		013		995	
		008		990	
125 S	3.35	63004	-19	985	
		62999		980	
150 S		997		978	
		992		973	
175 S		998		999	
		986		967	
200 S		983		964	
		981		962	
225 S	3.40	979	-19	960	
		977		958	
250 S		976		957	
		976		957	
275 S	3.40	975		956	
		972		953	
300 S		973		954	
		973		954	
325 S	3.45	973	-20	953	
		973		953	
350 S		973		953	
		971		951	
375 S		971		951	
		973		953	creek
400 S		969		949	
	3.50	964	-20	944	
425 S		960		940	
		953		933	
450 S		947		927	
		943		923	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION:

STONEHENGE GRID. 1800 EAST LINE.

DATE:

10th Nov. 82

MAGNETOMETER:

OPERATOR:

Pactock

BASE STATION LOCATION: 200 E 150 S

62460 gamma

CHECKED P. 15

10/11/82.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
1700 S	9.08	62514	62480 ²⁰	62494	
		514		494	
1675 S		516	62479 ¹⁹	497	
		518		499	
1650 S		518		499	
		528		519	
1625 S	9.12	518		499	
		521		502	
1600 S		528		509	
		531		512	
		539		520	
		546	62479 ¹⁹	527	
1550 S		550		531	
		547		528	
1525 S		544		525	
		554		525	
		544		525	
		543		524	
1500 S	9.20	557	62482 ²²	535	
		550		528	
		543		521	
		548		526	
1425 S		545		523	
		536	62481 ²¹	515	
1400 S		603		582	
		549		548	
		562		541	
		559		538	
1350 S	9.24	554		533	
		567	62481 ²¹	546	
1325 S		571		550	
		576		555	
		566		545	STREAM
		570		549	
1275 S		577	62480 ²⁰	552	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONE HENCE 1800 EAST LINE

DATE: 10 Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200 E 150 S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		62573	62480 ²⁰	62553	
1250S.		574		554	
	9.37	576	62480 ²⁰	556	
1225S.		589		569	
		599		579	
1200S.		607		587	
		604		584	STREAM
1175S.		608		588	
		614		594	
1150S.		617		597	
		622		602	
1125S.		626		606	
		621	62482 ²²	610	
1100S.		641		619	
		650		628	STREAM
		655		633	
		656		634	
1050S.	9.47	660		638	
		664		642	
1025S.		674		652	
		684	62482 ²²	662	
1000S.		688		666	
		695		673	
975S.		699		677	STREAM
		704		682	
950S.		712		690	
		718		696	
925S.		719		697	STREAM
		726		702	
900S.	9.55	730	62482 ²²	708	
		737		715	
875S.		745		723	
		751		729	
850S.		760		738	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 3, 1

LOCATION: STONELLINGE / 1800 EAST LINE

DATE: 10th Nov. 82

MAGNETOMETER:

OPERATOR: Pockock

BASE STATION LOCATION: 200 E 150.5

62460 (gamma)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
8255		62766 + 770	62482 ²²	62744 748	
8005		780 786	62483 ²³	757 763	
7755		793 824 826		773 801 783	CREST. METAL
7505		813 818		790 795	
7255		823 826	62485 ²⁵	798 801	
7005	10.06	839 845	62486 ²⁶	813 819	
6755	10.08	855	62487 ²⁷	828	
	10.21	864	62487 ²⁷	837	
6505		872 878		845 852	
6255		885	62486 ²⁶	859	
		891	62485 ²⁵	866	
6005		894 905		869 881	
5755		910 916	62484 ²⁴	886 892	
5505		922		898	
		930		906	
5255		932		908	
		941		917	
5005	10.30	947	62485 ²⁵	922	
		953		928	
4755		960		935	
		966		941	
4505		969		944	
		975		950	
4255		980	62484 ²⁴	956	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 4

LOCATION: Stonehenge 1800 EAST LINE.

DATE: 10th Nov 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200 E 150 S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		62984	93 ²³	62961	
400S.		994	62482 ²³	972	
		997	3 ²³	974	
375S.		63000	8	977	
		009	4 ²⁴	985	Gravel
350S.	10.37	010		986	
		008	5 ²⁵	983	
325S.		009	62486 ²⁴	983	
		013		987	
300S.		015		989	
		015		989	
275S.		017		991	
		01		991	
250S.	10.43	016		990	
		015		989	
225S.		016	62486 ²⁴	990	
		019		993	
200S.		017		991	
		022		996	
175S.		021		995	REST.
		018		992	
150S.		021		995	
		026		63000	
125S.		023		62997	
		028		63002	
100S.	10.50	030	62486 ²⁴	004	
		030		004	
75S.		030		004	
		034		008	
50S.		033		007	
		034	62485 ²⁵	009	
25S.		034		009	
		029		004	
BASE LINE		030		005	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 5

LOCATION: Stonehenge 1800 EAST LINE.

DATE: 10th Nov. 82

MAGNETOMETER:

OPERATOR: Pochock

BASE STATION LOCATION: 200E 150.5

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		63027	62484 ²⁴	63003	
25N.		020		62996	
		018		994	
50N.		016		992	
		014		990	
75N.		012		988	
		009		985	
100N.		006		982	
		007		983	
125N.	10.59	62997		973	
		990	62484 ²⁴	966	
150N.		985		961	
		978		951	
175N.		972		948	
		970	62483 ²³	947	
200N.		962		939	
		953		930	
225N.	11.05	944	62482 ²²	927	
		942	62483 ²³	919	
250N.		936	62484 ²⁴	912	
		929	62486 ²⁴	903	
275N.		925	62487 ²⁷	898	
		914	62488 ²⁸	886	
300N.		909		881	
		905	62489 ²¹	878	
325N.		895	62486 ²¹	869	STREAM
		887		861	
350N.		880	62485 ²⁵	863	
		874		849	
375N.	11.17	868		843	
		862		837	
400N.		858		833	
		853		828	
425N.		845		820	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 6

LOCATION: Stonehenge 1800 EAST LINE.

DATE: 10th Nov 82

MAGNETOMETER:

OPERATOR: Pullcock

BASE STATION LOCATION: 200E 150S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		62840	62485 ²⁵	62815	
450 N.		832		807	
		822		797	
475 N.	11.23	817		792	
		811	62486 ²⁶	785	
500 N.		806		780	
		802		776	
525 N.		791		765	
		786		760	
550 N.	11.30	780	62486 ²⁶	754	
		779		753	
575 N.		775		749	ROAD
		764	62485 ²⁵	739	
600 N.		760		735	STREAM
		752		727	
625 N.		748	62484 ²⁴	724	
		742		718	
650 N.	11.37	735		711	
		727		703	
675 N.	11.39	722	62484 ²⁴	698	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION:

STONEHENGE. 1900 EAST LINE.

DATE:

10th Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION:

CHECKED P.15 10/11/82.
200 E 150 S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
550 N.	11.52	62775	62481 ²¹	62754	
		783		762	
525 N.		788		767	
		794		773	
500 N.		804		783	STREAM
		813		792	ROAD
475 N.		815	62481 ²¹	794	
		820		799	
450 N.		827		806	
		836		815	
425 N.		841		820	
		847	62482 ²²	825	
400 N.	12.01	855		833	
		858		836	
375 N.		864		847	MINE
		871		849	
350 N.		879		857	
		888		866	
325 N.		893	62481 ²¹	872	
		901		880	
300 N.		909		888	
		920		899	
275 N.		926	62480 ²²	906	
		930		910	
250 N.		937		917	
		943		923	
225 N.	12.09	949		929	
		953	62479 ²¹	934	
200 N.		959		940	
		965		947	
175 N.		971		954	
		980		963	
150 N.		987		971	
		991		975	
125 N.	12.11	997		982	

LOCATION: Stoneheaps

1900 EAST LINE

DATE: 10th Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S

62460 gammas.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		62998		62983	
100 N.		63001	62474 ^m	987	
		005		992	
75 N.		007		993	
		009		996	
50 N.		013		999	
		016		63002	
25 N.		017		003	
		020		006	
BASE LINE		024	62473 ^s	011	
		025		012	
25 S.	12.21	024		015	
		023		010	
50 S.		023		010	
		022		009	
75 S.		020		007	
		017		004	
100 S.	12.20	016		003	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION: LINE 1900 E

DATE:

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION:

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
600 S	2.55	62910	-10	62900	
		920		920	
575 S		928		928	
		939		939	
550 S		946		946	
		958		958	
525 S		970		960	
		981		971	
500 S		990		980	
	3.00	62997	-11	986	creek
475 S		63003		992	
		006		62995	
450 S		013		63002	
		024	-12	012	
425 S		024		012	
		031		019	
400 S	3.05	033	-13	020	
		037		024	
375 S		042		029	creek
		038		025	
350 S		036		023	
		036		023	
325 S		037		024	
		035		022	
300 S	3.10	034	-14	020	
		030		016	
275 S		029		015	
		026	-15	021	
250 S		024		009	
		023		008	
225 S	3.15	022	-16	006	
		020		004	
200 S		020		004	
		018		002	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION:

STONEHENGE 2000 EAST LINE

DATE: 10th Nov. 82.

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150.S

62460 gamma. CHECKED 8.15 10/11/82.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
750S	12.45	62830	62475 ¹⁵	62815	MINE
		849		834	"
725S		862		847	"
		870		855	
700S		879		864	
		884		869	
675S		894	62476 ¹⁵	878	
		906		890	
650S		917		901	
		927		911	
625S	12.54	935		919	
		945		929	
600S		956	62475 ¹⁵	911	
		964		949	
575S		971		957	
		979		964	
550S		988		973	
		997		982	
525S		63008		993	
		015		63000	STREAM
500S		016	62476 ¹⁵	000	
		014		62998	
475S	1.02	011	62475 ¹⁵	996	
		010		995	
450S		010	62474 ¹⁵	996	
		010		996	
425S		010		996	
		014	62475 ¹⁵	63001	
400S		016		003	
		017		004	
375S		019		006	
		022		009	
350S		024		011	
		028		015	
325S		034		021	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: Stoneheife

2000 EAST LINE

DATE: 10th Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200 E 150 S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		63038		63 025	
300 S.		043	62472	031	
		047		035	
275 S.	1.11	047		035	
		044		032	
250 S.		042		030	STREAM
		039		027	
225 S.		036	62472	024	
		031		019	
200 S.		028		016	
		027		015	
175 S.		025		013	
		025		012	
150 S.		025	62471	014	
		024		013	
125 S.	1.21	029		018	
		029		018	
100 S.	1.23	034		023	
	1.45	029	62470	019	
75 S.	1.46	033		023	
		034		024	
50 S.		038		028	
		037		027	
25 S.		040		030	STREAM
		039		029	
BASE LINE		034		024	
		033		023	
25 N.		023		013	
		019		009	
50 N.	1.54	024		014	
		019		009	
75 N.		016	62470	006	
		011		001	
100 N.		006		62 996	
		63000		990	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 3

LOCATION: Stancherpe

2000 EAST LINE.

DATE: 10th Nov 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150.5

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
125N.		62995	62471"	62984	
		989		978	
150N.		984		973	
		981		970	
175N.		975		964	
		966		955	
200N.	2.01	961	62471"	950	
		952		941	
225N.		942		931	
		936		925	
250N.		930		919	
		924		913	
275N.		916		905	
		907	62471"	896	
300N.		900		889	
		894		883	
325N.		888		877	
		880		869	
350N.	2.08	873		862	
		867		856	
375N.		860		849	
		854		843	
400N.		846	62471"	835	
		841		830	
425N.		827		816	
		837		826	
450N.		822		811	STREAM
		813		802	
475N.		806		795	STREAM
		800		789	"
500N.	2.15	794	62472 ¹²	782	"
		785		773	
525N.		776		764	
		773		761	
550N.		764	62474 ⁴	750	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION:

STONEHENGE 2100 EAST LINE

DATE:

10th Nov 82.

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION:

200E 150S

62480 gammas Checked. P. 15 ON. 10/11/82.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
550 N.	2.57	62759	62478 ¹⁸	62741	
		769		751	
525 N.		764		746	
		780	62478 ¹⁶	762	
500 N.		787		769	
		795		777	
475 N.		803		785	MINE
		811		793	"
450 N.	3.05	814	62480 ²⁰	794	"
		825		805	"
425 N.		833		813	"
		839		819	"
400 N.		850		820	" STREAM
		859	62481 ²¹	838	"
375 N.	3.11	869		848	
		871		850	
350 N.		878		857	
		886		855	
325 N.		960		939	MINE
		880	62480 ²⁰	860	
300 N.		907		887	ROAD
		915		895	
275 N.		925		905	
		929		909	
250 N.	3.18	938		918	
		944		924	
225 N.		954	62483 ²³	931	
		967		944	
200 N.		976		953	
		984		961	
175 N.		996		973	
		987		964	METAL
150 N.		63014	62485 ²⁵	989	"
		62995		970	"
125 N.		67077		967	"

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2.

LOCATION: Stonehenge 2100 EAST LINE

DATE: 10th Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200 E 150 S

62460 gauss

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		63024	62485 ²⁵	62999	
100 N.		052		63027	
		012		62987	
75 N.		026	62486 ²⁶	63000	STREAM
		029		003	
50 N.		024		008	
		036		010	
25 N.		040		014	
		042		016	
BASE LINE		044		018	
		045	62487	018	
25 S.		046		019	
		047		19	
50 S.		047		020	
		047		020	
75 S.		047		020	
		048		021	
100 S.	3.38	047	62487 ²⁷	020	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION: LINE 2100E

DATE: 27/1/83

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E, 150S
(62460 gammas)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
050 S	2.17	63022	-6	63026	
		027		021	
075 S	2.20	024	-6	018	
		030		024	
100 S		028		022	
		026		020	
5 S		025		019	
		019		013	
150 S		021		015	
	2.25	023	-5	018	
175 S		024		019	
		022		017	
200 S		026		021	
		033		028	
225 S		036		031	
	2.30	033	-6	027	
250 S		033		027	
		033		027	
275 S		027		021	
		024		018	creek
300 S		020		014	
	2.35	013	-7	006	
325 S		004		63002	
		006		62999	
350 S		63000		993	
		62997		990	
375 S		997		990	
		994		987	
400 S	2.40	998	-8	990	
		998		990	
425 S		62998		990	
		63001		993	
450 S		63000		992	
		62996		988	
475 S		990		982	
		990		981	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: !

LOCATION: STONEHENGE 2200 EAST LINE DATE: 10th Nov 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S
CHECKED 8.15 ON 10/11/82.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
525 S	4.03	62994	62487 ²⁷	62967	
		993		966	
500 S		995		968	
		991		964	
475 S		988		961	
		989		962	
450 S		989		962	
		987		960	
425 S		987		960	
		989		962	
400 S		989		962	
		991		964	
375 S	4.10	993	62487 ²⁷	966	
		990		963	
350 S		994		967	
		63001		974	
325 S		003		976	
		006		979	
300 S		011		984	
		013		986	
275 S		013		986	
		014		987	
250 S		016		989	
		013		986	
225 S		013		986	
		013		986	
200 S		014		987	
		015		988	
175 S		015		988	
		016		989	
150 S		016		989	
		017		990	
125 S		020		993	
		025		998	
100 S	4.23	028	62487 ²⁷	63001	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2.

LOCATION: Stonehenge

2200 EAST LINE

DATE: 10th Nov. 82.

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
		63028	62487 ²⁷	63001	
75S.		031		004	
		036	62486 ²⁶	010	
50S.		035		009	
		033		007	
25S.		032		006	
		034		008	
BASE LINE	4.29	032		006	
		033	62487 ²⁷	006	
25N.		027		63000	
		026		62999	
50N.		026		999	
		028		3001	
75N.	4.34	020		62993	
		015	62488 ²⁸	988	ROAD
100N.		011	62488 ²⁸	983	STREAM
		63000		952972	MINE
125N.		011	62489 ²⁹	982	
		62970	62489	92941	MINE DUMP
150N.		994	62489 ²⁹	92965	" "
		983	62490 ³⁰	92953	" "
175N.		980		92950	" "
		63009		979	
200N.	4.48	62982		952	
		971		941	
225N.		961	62492 ³¹	929	
		956		924	STREAM
250N.		944		912	
		934		902	
275N.		930		898	
		923		891	
300N.	4.55	924	62493 ³¹	891	
		910		877	
325N.		900		867	
		894		861	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 3.

LOCATION: Stonehenge 2200 EAST LINE.

DATE: 10th Nov. 82

MAGNETOMETER:

OPERATOR: Pollock

BASE STATION LOCATION: 200E 150S

62460 gamma

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
350 N.		62492	62493	62849	
		874		841	
375 N.	4.59	866		833	
		860	62492	828	
400 N.		854		822	
		842		810	
425 N.		837		805	
		827		795	
450 N.		818		786	
		812		780	
475 N.		807	62491	776	
		799		768	
500 N.		797		761	
		785		754	
525 N.	5.08	777		745	
		770		738	
550 N.		763	62491	732	
		763		732	
575 N.		754		723	
		746		715	
600 N.		740		709	
		735		704	
625 N.	5.15	731	62491	700	
		724		693	
650 N.		719		687	
		715		684	
675 N.		709		678	
		703	62490	673	
700 N.	5.22	697		667	
		693		663	
725 N.		692		662	
		686		656	
750 N.		681	62489	652	
		676		647	
775 N.		671		641	

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GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1.

LOCATION: STONEHENGE GRID - 2300E LINE. DATE: 11. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gamma

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
550N	1.53pm	62727	62472	62715	
		746		734	
525N		811		799	
		600		588	
500N		747	62473	734	
		769		756	
475N		784	62474	770	
		760	62475	745	
450N		781	62476	765	
		793		777	
425N		802	62477	785	
		809		792	
400N		821		804	mine
		827	62478	809	
375N		835		817	
		847		829	
350N		853	62479	834	
		863		844	
325N	2.06pm	869		850	
		878		859	
300N		883		864	
		892		873	
275N		900		881	
		904		885	
250N		915		896	
		923	62478	905	
225N		927		909	
		930		912	
200N		934		916	
		946		928	
175N	2.13pm	951		933	
		954		936	
150N		962	62478	944	MINE DUMP
		964		946	MINE DUMP

GOLD FIELDS EXPLORATION PTY. LIMITED

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GROUND MAGNETOMETER SURVEY

PAGE NO:

LOCATION: STONE HENGE
LINE 2300E

DATE: 27/1/83

MAGNETOMETER:

OPERATOR: P. KOMYSHAN
R. WHITEHOUSE

BASE STATION LOCATION: 200E, 150S
(62460 gamma)

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
500S	1.45	62923	+0	62923	
		929		929	
475S		924		924	
		917		917	
450S		924		924	
		921		920	
425S	1.50	918	-2	916	
		921		919	
400S		926		924	
		932		930	
375S		939	-3	936	
		949		946	
350S		956		953	
		964		961	
325S	1.55	968	-4	964	
		972		968	
300S		975		961	
		972		968	
275S		975		971	
		980		976	
250S		979		975	
		981	-3	978	
225S		981		978	
		980		977	
200S	2.02	986	-4	982	
		62990		62986	
175S	2.05	63006	-5	63001	
		008		003	
150S		011		006	
		006		001	
125S		63003		998	
		62998		993	
100S		997		992	
	2.10	998	-6	992	
		99		99	



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GROUND MAGNETOMETER SURVEY

LOCATION: STONEHENGE GRID - 2400E LINE DATE: 11.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gauss.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
500S	11.12am	62917	62482 ³²	62895	
		924		902	
475S		931		909	
		933	62481	912	
450S		935		914	
		936	62480	916	
425S	11.16am	933		913	
		935	9	916	
400S		936	8	918	
		936		918	
375S		941	7	924	
		941		924	
350S	11.22am	943	62476	927	
		945		929	
325S		949		933	
		952		936	
300S		960		944	
		969		953	
275S		973	62477	956	
		981		964	
250S	11.27am	990		973	
		994		977	
225S		997		980	STREAM
		991		974	
200S	11.30am	992	62478	974	
		990		972	
175S		994		996	
		995		977	
150S		997		979	
		998		980	
125S		63004	62477	987	
		003		986	
100S		006		989	
	11.38am	010		993	

197

GOLD FIELDS EXPLORATION PTY. LIMITED

502199 (51)

GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID - 2400E LINE DATE: 11.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gammas

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
75S		63010		62993	STREAM
		007	62477	990	STREAM
50S		007		990	STREAM
		63000	6	984	
25S		62998	5	983	
		986		971	
B/L	11.45am	979	62474	965	
		970		956	
25N		964		950	
		956	3	943	
50N		948		935	
		943	62472	931	
75N		930		928	
		936		924	
100N	11.52am	933		921	
		926	1	915	
125N		921		910	
		914		903	
150N		911		900	
		904	62470	894	
175N		899		889	
		894		884	
200N		893	9	884	
	11.57am	898		879	
225N		879		870	
		873		864	
250N		866	62468	858	
		856		848	
275N		856		848	
		841		833	
300N		836		828	
		831		823	
325N	12.03pm	824		816	
		818		810	

198

GOLD FIELDS EXPLORATION PTY. LIMITED

502200 (52)

GROUND MAGNETOMETER SURVEY

PAGE NO: 3

LOCATION: STONEHENGE GRID - 2400E LINE DATE: 11.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
350N		62812		62804	
		808	62467	801	
375N		800		793	
		796		789	
400N		791		784	
		781		774	
425N	12.08pm	779		772	STREAM
		770		763	
450N		765	62468	757	
		759		751	
475N		756		742	
		742		734	
500N	12.15pm	736	62469	721	
		726		717	
525N		726		717	
		721		712	
550N		715	8	707	
		708		700	
575N		700		692	
		695	62467	688	
600N		691		684	
	12.21pm	688		681	
625N		675	6	669	
		670		664	
650N		664		658	
		659	62465	654	
675N		656		651	
		653	4	649	
700N		648	3	645	
		641	2	639	
725N	12.30pm	639	62461	638	
		636		635	CAEST.
750N		631		630	
		628		627	

199

GOLD FIELDS EXPLORATION PTY. LIMITED

502201

GROUND MAGNETOMETER SURVEY

PAGE NO: 4

LOCATION: STONEHENGE GRID - 2400E LINEDATE: 11. 11. 82MAGNETOMETER:OPERATOR:BASE STATION LOCATION: 200E. 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
775N		62622		62621	
		615		617	
800N		615		614	
		613		612	
825N		609	62460	609	
	12.36pm	603		603	
850N		599		599	
		597	9	598	
875N		591		592	
		587	62458	589	
900N		583		585	
		580		582	
925N		579		581	
		569		571	
950N	12.45pm	568	62457	571	
		567		570	STREAM
975N		563		566	
		562		665	
1000N		557		560	
		553		556	
1025N		550		553	
	12.50pm	549	62458	552	
1050N		546		548	
		538		540	ROAD
1075N		536		538	
		534		536	
1100N		539		541	STREAM
		536	62459	537	STREAM
1125N		536		539	STREAM
		533		534	STREAM
1150N	12.59pm	62527		62528	

200

GOLD FIELDS EXPLORATION PTY. LIMITED

502202 (58)

GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE GRID - 2500E LINE

DATE: 9-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gaussines

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
600N	4.16pm	62707	62492	62675	
		703		671	
575N		708		676	
		710		678	
550N		705		676	
		722		690	
525N		725	62491 ³⁰	694	
		732		701	
500N	4.22	739		708	
		743		712	
475N		750		719	
		758		727	
450N		743		732	
		769		738	
425N		775	62490 ³⁰	745	
		778		748	
400N		784		754	
	4.28	788		758	
375N		794		764	
		800		770	
350N		807	62491 ³⁰	776	
		807		776	
325N		812		781	
		823		792	
300N		826		795	
		832		801	
275N	4.33	835		804	
		840		809	
250N		848		817	
		852		821	
225N		856	62491 ³⁰	825	
		862		831	
200N		866		835	
		874		62 843	

202

GOLD FIELDS EXPLORATION PTY. LIMITED

502204 (56)

GROUND MAGNETOMETER SURVEY

PAGE NO: 1.

LOCATION: STONE HENGE GRID - 2600E LINE

DATE: 9-11-82

MAGNETOMETER:

OPERATOR: FULTON BROS.

BASE STATION LOCATION: 200E 150S.

62460 gamma May checked at BIS 7.40am - 62474

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
1700S	8.50am	62520	62479	62501	
		523		504	
1675S		521		502	
		525		506	
1650S		521		504	
		519		500	
1625S		522		503	
		524		505	
1600S		525	62479	506	
		527		508	
1575S	8.56am	525		506	
		518		499	
1550S		513		494	
		512		493	
1525S		513		494	
		515		496	
1500S		62519		500	
		521		502	
1475S		522	62479	503	
		522		503	
1450S		522		503	
		521		502	
1425S		521		502	
	9.03am	522		503	
1400S		525		506	
		527		508	
1375S		528	62480	508	
		528		508	
1350S		529		509	
		531		511	
1325S		531		511	
		532		512	STREAM
1300S	9.09am	537		517	
		539		519	

203

GOLD FIELDS EXPLORATION PTY. LIMITED

502205 (57)

GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID - 2600E LINE

DATE: 9-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION:

200E 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
12755		62542	62479	62523	
		543		524	
12505		543		524	
		543		524	
12255		543		524	
		542		523	
12005		543		524	
		545		526	
11755	9:14am	548		529	
		551	62481"	530	
11505		553		532	
		557		536	
11255		562		537	
		564		543	
11005		566		545	
		568		547	
10755		569		548	STREAM
		577	62481"	556	
10505	9:21am	579		558	
		586		565	STREAM
10255		582		561	STREAM
		591		570	STREAM
10005		593	62480"	573	STREAM
		595		575	
9755		601		581	
	9:29am	605		585	
9505		611	62480	591	
		610		590	
9255		617		597	
		619		599	
9005		624		604	
		629		609	
8755		634	62481	614	
		642		62 622	

204

GOLD FIELDS EXPLORATION PTY. LIMITED

502206

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GROUND MAGNETOMETER SURVEY

PAGE NO: 3

LOCATION: STONEHENGE GRID - 2600E LINE

DATE: 9.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
850S	9.36am	62647	62481 ²¹	62626	
		649		628	
825S		657		636	
		664	62481 ²¹	643	
800S		666		645	
		671		650	
775S		677		656	
		683		662	
750S	9.44am	689		668	
		695	62481 ²¹	674	
725S		699		678	
		705		684	
700S		712		691	
		720		699	
675S		730		709	
		740		719	
650S		749		728	
		758	62481 ²¹	737	
625S	9.51	764		743	
		771		750	
600S		782	2	760	
		870		748	
575S		801	62483	778	
		807		784	
550S	9.57	816		793	
		819		796	
525S		832		809	
		834		811	
500S		838	62482 ²¹	816	
		848		826	
475S		850		828	STREAM
		855		833	
450S	10.04	859		837	
		860	62481	62.838	

205

GOLD FIELDS EXPLORATION PTY. LIMITED

502207 (59)

GROUND MAGNETOMETER SURVEY

PAGE NO: 4

LOCATION: STONEHENGE GRID - 2600E LINE

DATE: 9. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S

62460 gammas

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
425 S		62898	62481 ²¹	205 62877	METAL
		869		850 848	METAL
400 S		865	62480 ²⁰	850 845	METAL
		862		260 842	METAL
375 S		897		850 877	METAL
		667		508 847	METAL
350 S		63331		870 63311	METAL
		62899		85 62899	METAL
325 S	10.14 am	62906		870 886	METAL
		916	62480 ²⁰	850 896	METAL
300 S		906		886	
		910		890	
275 S	10.15	911		850	
	10.32	916	62479 ¹⁹	897	
250 S		914		895	
		923		904	
225 S		923		904	
		923		964	
200 S		919	62480	899	
		916		896	
175 S	10.37	920		900 ¹	STREAM
		922		902	
150 S		923		901	
		921		898	
125 S		912		889	
		910	62435 ²³	885	
100 S		905		880	
		901		876	
75 S	10.42	898		873	
		896		870	
50 S		892		866	
		885		859	
25 S		881	62487	854	
		879		62 852	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502208

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GROUND MAGNETOMETER SURVEY

PAGE NO: 5

LOCATION: STONEHENGE GRID - 2600E LINE

DATE: 9-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
B/L	10.48am	62875	62487 ²¹	62848	
		870		843	
25N		866		839	
		863		836	
50N		859	62486 ²²	833	
		854		828	
75N	10.52	851		825	
		843		817	
100N	10.56	841	62484 ²⁴	817	
		843		819	
125N		828		804	
		823	5	798	
150N		821		796	
		817	6	791	
175N		814		788	
		810		784	
200N	11.01	810	62487 ²¹	783	
		803		776	
225N		803		776	
		800		773	
250N		799		772	
		796		769	
275N		793		766	
		789	62485 ²⁵	763	
300N		782		757	
		778	4	754	
325N		768	3	745	
		767	2	745	
350N	11.09	762	1	741	
		755		734	
375N		756	62480 ²⁰	736	
		754		734	
400N		748		728	
		743		723	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502209 (6)

GROUND MAGNETOMETER SURVEY

PAGE NO: 6

LOCATION: STONEHENGE GRID - 2600E LINEDATE: 9-11-82MAGNETOMETER:OPERATOR:BASE STATION LOCATION: 200E 150S.

62460 gammas

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
425N		62735	62480 ²⁰	62715	
		731		711	
450N	11-14am	731		711	
		726	62479 ⁿ	707	
475N		716		697	
		710		691	
500N		705		686	
		705		686	
525N	11-18	695		676	
		699		680	
550N		699	62479 ⁿ	680	
		691		672	
575N		673		654	
		673		654	
600N	11-23	668		649	
		661		642	
625N		655	62479 ⁿ	636	
		654		635	
650N		646		627	
		643		624	
675N	11-28	640		621	
		633		614	
700N		631	62479 ⁿ	612	
		630		611	
725N		628		609	
		630		611	
750N		630		611	
		632		613	
775N		613		594	
		615		596	
800N	11-33	612	62480 ²⁰	592	
		608		588	
825N		605		585	
		606		586	

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GOLD FIELDS EXPLORATION PTY. LIMITED 502210

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GROUND MAGNETOMETER SURVEY

PAGE NO: 7

LOCATION: STONEHENGE GRID- 2600E LINEDATE: 9-11-82MAGNETOMETER:OPERATOR:BASE STATION LOCATION: 200E 150S

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
850N		62603	62480 ²¹	62582	
		599		578	
875N	11.40	598	62482 ²²	576	
		589		567	
900N		590		568	
		590		568	
925N		587		565	
		584		562	
950N		581		559	ROAD
		455	62482 ²²	550433	METAL
975N		567		545	
		557		535	
1000N		605		531532	METAL
		564		542	
1025N		561		539	
		557		535	
1050N	11.51	557		535	
		551		529	
1075N		565		543	STREAM
		558		536	STREAM + METAL
1100N	11.54	560	62482 ²²	538	STREAM + METAL

211

GOLD FIELDS EXPLORATION PTY. LIMITED

502211 (69)

GROUND MAGNETOMETER SURVEY

PAGE NO: 1

LOCATION: STONEHENGE GRID - 2800E LINE

DATE: 9. 11. 82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62460 gammas

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
B/L	2.29pm	62763	62479 ¹⁹	62744	
		757		738	
25N		758		739	
		757		738	
50N		756	80	736	
		755		735	
75N		754	62481 ²¹	733	
		748		727	
100N		748		727	
		743	2	721	
125N		740		718	
		735		713	
150N	2.40	729	62483 ²³	708	
		728		705	
175N		727		704	
		726	4	702	
200N		724		700	
		726		702	
225N		719	62485 ²⁵	694	
		718		693	
250N		717		692	
		712		687	
275N		706		681	
		706		681	
300N	2.49	706		681	
		705	62485 ²⁵	680	
325N		701		676	
		700		675	
350N		695		670	
		695		670	
375N		691		666	
		684		659	
400N	2.55	682	62485 ²⁵	657	
		675		650	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502212

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID - 2800E LINEDATE: 9.11.82MAGNETOMETER:OPERATOR:BASE STATION LOCATION: 200E 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
425N		62674		62649 ²⁵	
		668		643	
450N		667	62486 ²⁶	641	
		663		639	
475N		662		636	
		660		634	
500N		655		629	
		659		633	
525N		651		625	
		645		619	
550N		640	62486 ²⁶	614	
		644		618	
575N		639		615	
	3.07pm	640		614	
600N		631		605	
		629	62487 ²⁷	602	
625N		624		597	
		625		598	
650N		620	8	592	
		620		592	
675N		617	9	588	
	3.14	615	9	586	
700N		610	62490 ³⁰	580	
		613		583	
725N		611	9	582	
		604		575	
750N		602	8	574	
		601		573	
775N		598	62487 ²⁷	571	
		595		568	
800N		594		567	
		596	6	570	
825N		592		566	
		590	62485 ²⁵	565	

LOCATION: STONEHENGE GRID - 2800E LINE

DATE: 11-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S

62460 gamma CHECKED FIELD MAG. WITH BASE STATION 7.50am. - 62747

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
800S	8.35am	62599	62478 ¹¹	62588	
		603		592	STREAM
775S		607		596	
		607		595	
750S		615		603	
	8.40am	620	62473 ¹³	607	
725S		624		609	
		631		618	
700S		637	62473 ¹³	624	
	8.48am	639		626	
675S		644		631	
6		648		635	
650S		652	62477 ¹²	639	
		655		643	
625S		660		648	
	8.52am	666		654	
600S		666		654	STREAM
		668	62472 ¹²	656	
75S		674		662	
		675		663	
550S	8.59am	680		668	
		682	62478 ¹¹	671	
525S		687		676	
		689		678	
500S		694		683	
		698		687	
475S	9.05am	701	62472 ¹²	689	
		702		690	
450S		711		699	
		711		699	
425S		716		704	
		719		707	STREAM
400S		725		713	
		725	62473 ¹³	712	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502215

GROUND MAGNETOMETER SURVEY

PAGE NO: 5

LOCATION: STONEHENGE GRID - 2800E LINE DATE: 11-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
375S	9.11am	62726	62473 ^B	62713	
		729		716	
350S		731		718	
		735		722	
325S		737	4	723	
		741		727	
300S		746		732	
		745		731	
275S		749	62475 ¹⁵	734	
	9.16am	751		736	
250S		754		739	
		756		741	
225S		760		745	STREAM
		760		745	
200S		759		744	
		761		746	
175S		761	62475 ¹⁵	746	
	9.21am	763		748	
150S		763		748	
		766		751	
125S		769		754	
		763		748	STREAM
100S		764		749	
		62760	62476 ¹⁶	744	
75S		760		744	
		758		742	
50S	9.28am	761		745	
		757		741	
25S		757	62476 ¹⁶	741	
		756		740	
B/L	9.32	62758		742	

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GOLD FIELDS EXPLORATION PTY. LIMITED 502216

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GROUND MAGNETOMETER SURVEY

PAGE NO: 1.

LOCATION: STONEHENGE GRID - 3000E LINEDATE: 9-11-82MAGNETOMETER:OPERATOR:BASE STATION LOCATION: 200E 150S.

62460 gammas

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
1100N	12:14pm	62518	62474 ¹⁹	62499	
		511		492	
1075N		513		494	
		518		499	
1050N		522		503	
		521		502	
1025N		522	62478 ¹⁸	504	
		524		506	
1000N		524	79	505	
		526		507	
975N		526		507	
		525	80	505	
950N	12:24	525		505	
		529	62481 ²¹	508	
925N		530		509	By Pass
		532		511	
900N		537		516	
		536	62481 ²¹	515	
875N	12:31	537		516	
		539		518	
850N		541		520	
		540	62480 ²⁰	520	STREAM
825N		544		524	
		548		528	
800N	12:39	546		526	
		547	62479 ¹⁸	528	
775N		552		533	
		553		534	
750N		556		537	
		560		541	
725N		560		541	
		563	62479 ¹⁸	544	
700N		563		544	
		564		545	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502217

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GROUND MAGNETOMETER SURVEY

PAGE NO: 2

LOCATION: STONEHENGE GRID - 3000E LINE

DATE: 9-11-82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
675N		62566	62479 ¹¹	62547	
		560		541	
650N		569		550	
	12.50pm	572	62479 ¹¹	553	
625N		574		555	
		575		556	
600N		577		558	
		580		561	
575N	12.55	581	62479 ¹¹	562	
		585		566	
550N	1.20	584	62478 ¹⁸	566	
		590		572	
525N		591		573	
		591		573	
500N		593		575	
		595		577	
475N	1.25	601	62479 ¹¹	582	
		599		580	
450N		601		582	
		601		582	
425N		607		588	
		610		591	
400N		611	62481 ²¹	590	
		612		591	
375N		616		595	
		620		599	
350N		621		600	
		621		600	
325N	1.34	627		606	
		633	62482 ²²	611	
300N		634		612	
		634		612	
275N		634		612	
		636		614	

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GOLD FIELDS EXPLORATION PTY. LIMITED

502218 (70)

GROUND MAGNETOMETER SURVEY

PAGE NO: 3

LOCATION: STONEHENGE GRID - 3000E LINE

DATE: 9.11.82

MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E 150S.

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
250N		62637	62481 ²¹	62616	
		640		619	
225N		638		617	
		638	80	618	
200N	1.39pm	639		619	
		640	62474 ¹⁹	621	
175N		643		624	
		646		627	
150N		645		626	
		647		628	
125N		650	62479 ¹⁹	631	
		649		630	
100N	1.47pm	653	80	632	
		654		634	
75N		659	62481 ²¹	638	
		654		633	
50N	1.54pm	661		640	
		663	62480 ²⁰	643	
25N		658		638	
		663	9	644	
B/L		665		646	
		660	8	642	
25S		663		645	
		661		643	
50S	2.00pm	660	62477 ¹⁹	643	
		654		637	
75S		655	78	637	
		655		637	
100S		658	79	639	
		662	80	642	
125S		667		647	
		663	62481 ²¹	642	
150S	2.06	663		642	

THESE READINGS NOT USED. READINGS 150S → B/L FROM OVER PAGE PLOTTED.

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GOLD FIELDS EXPLORATION PTY. LIMITED

502219

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GROUND MAGNETOMETER SURVEY

PAGE NO: 4

LOCATION: STONEHENGE GRID - 3000E LINE DATE: 11. 11. 82

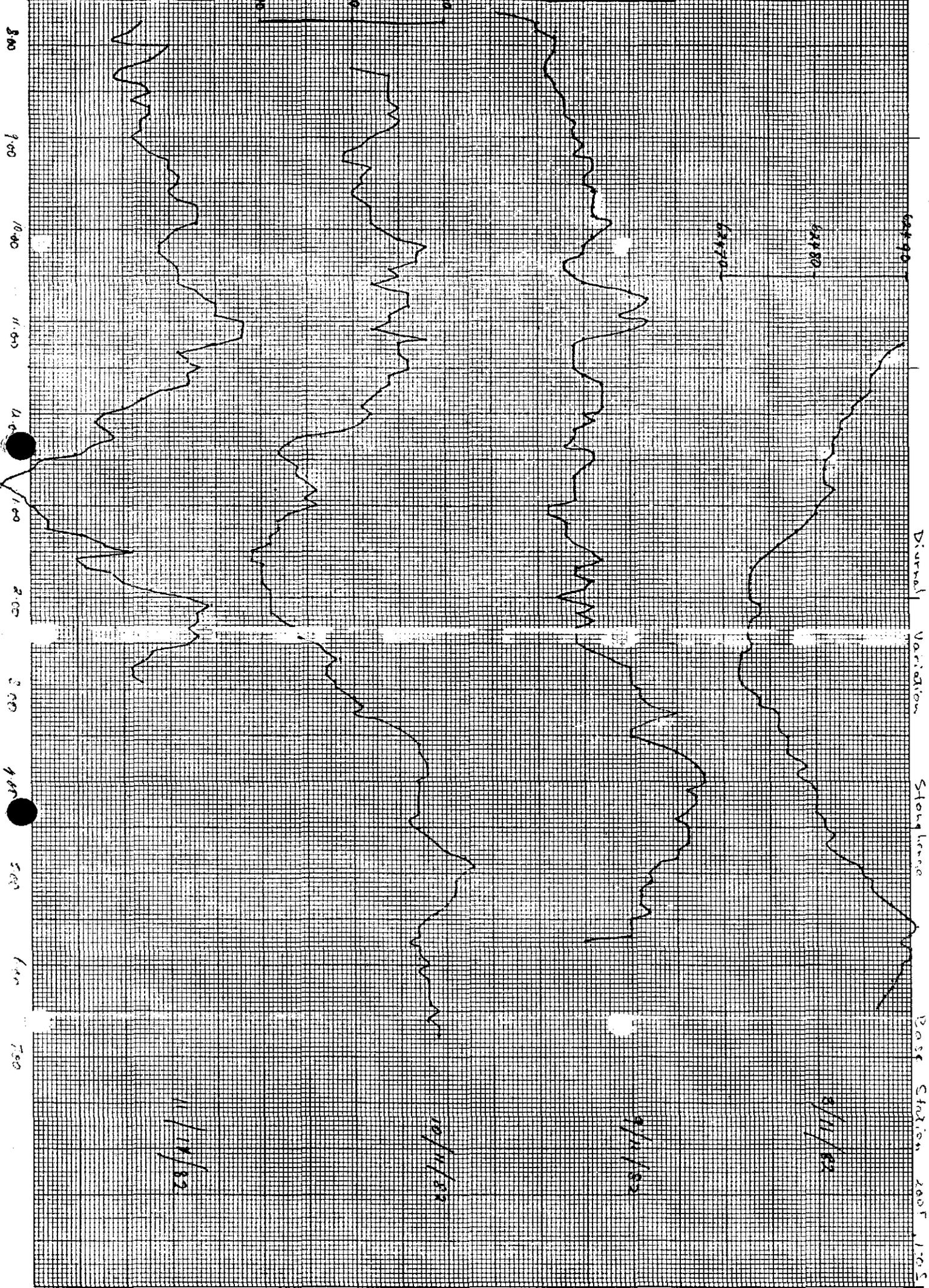
MAGNETOMETER:

OPERATOR:

BASE STATION LOCATION: 200E. 150S.

62640 gamma

Station	Time	Magnetic Reading	Base Reading	Corrected Reading	Cultural Features
B/L	9.40am	62661	62476 ¹⁶	62645	
		656		640	
255		658		642	
		660		644	
505		659	77 ¹⁷	642	
		663		646	
755	9.44am	661		644	
		662	62478 ¹⁸	644	
1005		662		644	
		663		645	
1255		663		645	
		663		645	
1505		665		647	
		664		646	
1755	9.49	664		646	
		661	62478 ¹⁹	643	
2005		662		644	
		661		643	
2255		663		645	
		662		644	
2505		658		640	
		656		638	
2755		655		637	
		651	62478 ¹⁹	633	
3005		650		632	
		649		631	
3255		648		630	
		648	77 ¹⁷	631	
3505		645		628	
		645		628	
3755		642		625	
	10.00am	641	62476 ¹⁶	625	
4005		640		624	
		638		622	



APPENDIX 7.

Stonehenge Grid - VLF E.M. Data.

VLF-EM
STONEHENGE AREA
RAW DATA BASE LISTING



DIP ANGLE DATA

I L 0000E I						
I No.	I	EAST	NRTH	FS	DIP	I
I 1	I	0.	-200.	70.	8.	I
I 2	I	0.	-187.	85.	10.	I
I 3	I	0.	-175.	95.	8.	I
I 4	I	0.	-163.	100.	8.	I
I 5	I	0.	-150.	110.	8.	I
I 6	I	0.	-138.	105.	7.	I
I 7	I	0.	-125.	105.	7.	I
I 8	I	0.	-113.	110.	6.	I
I 9	I	0.	-100.	110.	5.	I
I 10	I	0.	-87.	100.	5.	I
I 11	I	0.	-75.	100.	7.	I
I 12	I	0.	-62.	100.	9.	I
I 13	I	0.	-50.	100.	13.	I
I 14	I	0.	-37.	100.	16.	I
I 15	I	0.	-25.	95.	24.	I
I 16	I	0.	-12.	115.	26.	I
I 17	I	0.	0.	115.	26.	I
I 18	I	0.	12.	125.	27.	I
I 19	I	0.	25.	150.	27.	I
I 20	I	0.	37.	180.	25.	I
I 21	I	0.	50.	180.	10.	I
I 22	I	0.	62.	170.	5.	I
I 23	I	0.	75.	160.	8.	I
I MIN	I	0.	-200.	70.	5.	I
I MAX	I	0.	75.	180.	27.	I
I AV.	I	0.	-62.	117.	13.	I
I SD.	I	0.	83.	30.	8.	I

DIP ANGLE DATA

I L 0200E							I
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	200.	-150.	120.	-3.	I
I	2	I	200.	-138.	130.	0.	I
I	3	I	200.	-125.	125.	2.	I
I	4	I	200.	-113.	125.	4.	I
I	5	I	200.	-100.	125.	5.	I

STONEHENGE AREA
VLF-EM
RAW DATA BASE LISTING
25-APRIL-83

DIP ANGLE DATA

I L 0000E I							
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	0.	-200.	70.	8.	I
I	2	I	0.	-187.	85.	10.	I
I	3	I	0.	-175.	95.	8.	I
I	4	I	0.	-163.	100.	8.	I
I	5	I	0.	-150.	110.	8.	I
I	6	I	0.	-138.	105.	7.	I
I	7	I	0.	-125.	105.	7.	I
I	8	I	0.	-113.	110.	6.	I
I	9	I	0.	-100.	110.	5.	I
I	10	I	0.	-87.	100.	5.	I
I	11	I	0.	-75.	100.	7.	I
I	12	I	0.	-62.	100.	9.	I
I	13	I	0.	-50.	100.	13.	I
I	14	I	0.	-37.	100.	16.	I
I	15	I	0.	-25.	95.	24.	I
I	16	I	0.	-12.	115.	26.	I
I	17	I	0.	0.	115.	26.	I
I	18	I	0.	12.	125.	27.	I
I	19	I	0.	25.	150.	27.	I
I	20	I	0.	37.	180.	25.	I
I	21	I	0.	50.	180.	19.	I
I	22	I	0.	62.	170.	11.	I
I	23	I	0.	75.	160.	8.	I
I MIN	I	0.	-200.	70.	5.	I	
I MAX	I	0.	75.	180.	27.	I	
I AV.	I	0.	-62.	117.	13.	I	
I SD.	I	0.	83.	30.	8.	I	

DIP ANGLE DATA

I L 0200E							I
I No.	I	EAST	NRTH	FS	DIP	I	
I 1	I	200.	-150.	120.	-3.	I	
I 2	I	200.	-138.	130.	6.	I	
I 3	I	200.	-125.	125.	2.	I	
I 4	I	200.	-113.	125.	4.	I	
I 5	I	200.	-100.	125.	5.	I	
I 6	I	200.	-87.	125.	8.	I	
I 7	I	200.	-75.	125.	8.	I	
I 8	I	200.	-62.	125.	12.	I	
I 9	I	200.	-50.	130.	13.	I	
I 10	I	200.	-37.	150.	16.	I	
I 11	I	200.	-25.	140.	16.	I	
I 12	I	200.	-12.	150.	20.	I	
I 13	I	200.	0.	180.	17.	I	
I 14	I	200.	12.	160.	4.	I	
I 15	I	200.	25.	170.	0.	I	
I 16	I	200.	37.	160.	3.	I	
I 17	I	200.	50.	155.	6.	I	
I 18	I	200.	62.	160.	6.	I	
I 19	I	200.	75.	160.	8.	I	
I 20	I	200.	87.	160.	5.	I	
I 21	I	200.	100.	170.	4.	I	
I 22	I	200.	113.	170.	2.	I	
I 23	I	200.	125.	170.	-10.	I	
I MIN	I	200.	-150.	120.	-10.	I	
I MAX	I	200.	125.	180.	20.	I	
I AV.	I	200.	-12.	147.	6.	I	
I SD.	I	0.	83.	19.	7.	I	

DIP ANGLE DATA

I L 0400E							
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	400.	-200.	160.	4.	I
I	2	I	400.	-187.	160.	3.	I
I	3	I	400.	-175.	170.	0.	I
I	4	I	400.	-163.	150.	-2.	I
I	5	I	400.	-150.	150.	-2.	I
I	6	I	400.	-138.	140.	0.	I
I	7	I	400.	-125.	140.	0.	I
I	8	I	400.	-113.	150.	2.	I
I	9	I	400.	-100.	140.	4.	I
I	10	I	400.	-87.	140.	3.	I
I	11	I	400.	-75.	150.	7.	I
I	12	I	400.	-62.	155.	9.	I
I	13	I	400.	-50.	150.	8.	I
I	14	I	400.	-37.	165.	3.	I
I	15	I	400.	-25.	100.	0.	I
I	16	I	400.	-12.	100.	4.	I
I	17	I	400.	0.	90.	0.	I
I	18	I	400.	12.	80.	0.	I
I	19	I	400.	25.	90.	2.	I
I	20	I	400.	37.	92.	8.	I
I	21	I	400.	50.	95.	14.	I
I	22	I	400.	62.	120.	10.	I
I	23	I	400.	75.	120.	10.	I
I	24	I	400.	87.	130.	10.	I
I	25	I	400.	100.	140.	13.	I
I	26	I	400.	113.	160.	7.	I
I	27	I	400.	125.	150.	5.	I
I	28	I	400.	138.	150.	-2.	I
I	29	I	400.	150.	200.	-2.	I
I	30	I	400.	163.	200.	-4.	I
I	31	I	400.	175.	170.	-4.	I
I	32	I	400.	187.	180.	-2.	I
I	33	I	400.	200.	170.	0.	I
I	MIN	I	400.	-200.	80.	-4.	I
I	MAX	I	400.	200.	200.	14.	I
I	AV.	I	400.	0.	142.	3.	I
I	SD.	I	0.	119.	32.	5.	I

DIP ANGLE DATA

I L 0600E I							
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	600.	-300.	160.	0.	I
I	2	I	600.	-288.	160.	0.	I
I	3	I	600.	-275.	150.	0.	I
I	4	I	600.	-263.	160.	4.	I
I	5	I	600.	-250.	150.	4.	I
I	6	I	600.	-238.	160.	6.	I
I	7	I	600.	-225.	160.	6.	I
I	8	I	600.	-213.	170.	12.	I
I	9	I	600.	-200.	170.	8.	I
I	10	I	600.	-187.	180.	6.	I
I	11	I	600.	-175.	170.	2.	I
I	12	I	600.	-163.	170.	4.	I
I	13	I	600.	-150.	180.	6.	I
I	14	I	600.	-138.	180.	6.	I
I	15	I	600.	-125.	180.	4.	I
I	16	I	600.	-113.	180.	2.	I
I	17	I	600.	-100.	170.	-2.	I
I	18	I	600.	-87.	180.	-4.	I
I	19	I	600.	-75.	170.	-6.	I
I	20	I	600.	-62.	160.	-6.	I
I	21	I	500.	-50.	170.	-4.	I
I	22	I	600.	-37.	150.	0.	I
I	23	I	600.	-25.	150.	4.	I
I	24	I	600.	-12.	150.	4.	I
I	25	I	600.	0.	160.	3.	I
I	26	I	600.	12.	150.	8.	I
I	27	I	600.	25.	160.	4.	I
I	28	I	600.	37.	150.	8.	I
I	29	I	600.	50.	160.	10.	I
I	30	I	600.	62.	170.	8.	I
I	31	I	600.	75.	170.	4.	I
I	32	I	600.	87.	160.	6.	I
I	33	I	600.	100.	160.	4.	I
I	34	I	600.	113.	170.	8.	I
I	35	I	600.	125.	170.	8.	I
I	36	I	600.	138.	240.	6.	I
I	37	I	600.	150.	220.	0.	I
I	38	I	600.	163.	220.	6.	I
I	39	I	600.	175.	230.	2.	I
I	40	I	600.	187.	230.	0.	I
I	41	I	600.	200.	200.	-4.	I
I	42	I	600.	213.	180.	-2.	I
I	43	I	600.	225.	180.	0.	I
I	44	I	600.	238.	180.	3.	I
I	45	I	600.	250.	180.	3.	I
I	46	I	600.	263.	180.	3.	I
I	47	I	600.	275.	200.	2.	I
I	MIN	I	600.	-300.	150.	-6.	I
I	MAX	I	600.	275.	240.	12.	I
I	AV.	I	600.	-12.	174.	3.	I
I	SD.	I	0.	170.	22.	4.	I

DIP ANGLE DATA

I L 0800E							I
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	800.	-400.	180.	2	I
I	2	I	800.	-388.	190.	5.	I
I	3	I	800.	-375.	190.	2.	I
I	4	I	800.	-363.	180.	0.	I
I	5	I	800.	-350.	180.	-2.	I
I	6	I	800.	-338.	180.	0.	I
I	7	I	800.	-325.	180.	-2.	I
I	8	I	800.	-312.	180.	0.	I
I	9	I	800.	-300.	180.	0.	I
I	10	I	800.	-288.	170.	2.	I
I	11	I	800.	-275.	170.	2.	I
I	12	I	800.	-263.	170.	4.	I
I	13	I	800.	-250.	180.	5.	I
I	14	I	800.	-238.	180.	5.	I
I	15	I	800.	-225.	180.	6.	I
I	16	I	800.	-213.	190.	6.	I
I	17	I	800.	-200.	200.	8.	I
I	18	I	800.	-187.	240.	8.	I
I	19	I	800.	-175.	260.	10.	I
I	20	I	800.	-163.	150.	10.	I
I	21	I	800.	-150.	200.	8.	I
I	22	I	800.	-138.	200.	6.	I
I	23	I	800.	-125.	210.	8.	I
I	24	I	800.	-113.	210.	5.	I
I	25	I	800.	-100.	210.	5.	I
I	26	I	800.	-87.	200.	4.	I
I	27	I	800.	-75.	200.	6.	I
I	28	I	800.	-62.	210.	6.	I
I	29	I	800.	-50.	230.	8.	I
I	30	I	800.	-37.	240.	6.	I
I	31	I	800.	-25.	220.	4.	I
I	32	I	800.	-12.	200.	4.	I
I	33	I	800.	0.	180.	7.	I
I	34	I	800.	12.	200.	10.	I
I	35	I	800.	25.	210.	14.	I
I	36	I	800.	37.	210.	12.	I
I	37	I	800.	50.	230.	14.	I
I	38	I	800.	62.	240.	10.	I
I	39	I	800.	75.	250.	8.	I
I	40	I	800.	87.	250.	10.	I
I	41	I	800.	100.	150.	8.	I
I	42	I	800.	113.	160.	0.	I
I	43	I	800.	125.	150.	0.	I
I	44	I	800.	138.	130.	-4.	I
I	45	I	800.	150.	110.	0.	I
I	46	I	800.	163.	115.	5.	I
I	47	I	800.	175.	120.	10.	I
I	48	I	800.	187.	120.	12.	I
I	49	I	800.	200.	130.	12.	I
I	50	I	800.	213.	140.	10.	I

I L 0800E						
I No.	I	EAST	NRTH	FS	DIP	I
I 51	I	800.	225.	140.	10.	I
I 52	I	800.	238.	140.	12.	I
I 53	I	800.	250.	150.	15.	I
I 54	I	800.	263.	150.	17.	I
I 55	I	800.	275.	170.	12.	I
I 56	I	800.	288.	170.	5.	I
I 57	I	800.	300.	160.	0.	I
I 58	I	800.	312.	150.	4.	I
I 59	I	800.	325.	140.	0.	I
I MIN	I	800.	-400.	110.	-4.	I
I MAX	I	800.	325.	260.	17.	I
I AV.	I	800.	-37.	182.	6.	I
I SD.	I	0.	213.	36.	5.	I

DIP ANGLE DATA

I L 0900E							
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	900.	0.	150.	12.	I
I	2	I	900.	12.	160.	12.	I
I	3	I	900.	25.	160.	12.	I
I	4	I	900.	37.	160.	10.	I
I	5	I	900.	50.	160.	14.	I
I	6	I	900.	62.	170.	12.	I
I	7	I	900.	75.	170.	12.	I
I	8	I	900.	87.	180.	8.	I
I	9	I	900.	100.	190.	8.	I
I	10	I	900.	113.	180.	6.	I
I	11	I	900.	125.	180.	0.	I
I	12	I	900.	138.	170.	0.	I
I	13	I	900.	150.	170.	0.	I
I	14	I	900.	163.	170.	4.	I
I	15	I	900.	175.	170.	4.	I
I	16	I	900.	187.	160.	4.	I
I	17	I	900.	200.	150.	6.	I
I	18	I	900.	213.	160.	10.	I
I	19	I	900.	225.	160.	17.	I
I	20	I	900.	238.	180.	22.	I
I	21	I	900.	250.	220.	12.	I
I	22	I	900.	263.	250.	15.	I
I	23	I	900.	275.	190.	0.	I
I	24	I	900.	288.	200.	0.	I
I	25	I	900.	300.	190.	-2.	I
I	26	I	900.	312.	200.	-2.	I
I	27	I	900.	325.	190.	-6.	I
I	28	I	900.	338.	180.	-4.	I
I	29	I	900.	350.	180.	0.	I
I	30	I	900.	363.	180.	0.	I
I	31	I	900.	375.	170.	-4.	I
I	MIN	I	900.	0.	150.	-6.	I
I	MAX	I	900.	375.	250.	22.	I
I	AV.	I	900.	187.	177.	6.	I
I	SD.	I	0.	112.	20.	7.	I

DIP ANGLE DATA

I L 1000E						T	
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	1000.	-500.	150.	4.	I
I	2	I	1000.	-488.	150.	2.	I
I	3	I	1000.	-475.	150.	2.	I
I	4	I	1000.	-463.	150.	0.	I
I	5	I	1000.	-450.	140.	2.	I
I	6	I	1000.	-437.	150.	2.	I
I	7	I	1000.	-425.	140.	4.	I
I	8	I	1000.	-413.	140.	4.	I
I	9	I	1000.	-400.	150.	4.	I
I	10	I	1000.	-388.	160.	5.	I
I	11	I	1000.	-375.	150.	2.	I
I	12	I	1000.	-363.	160.	4.	I
I	13	I	1000.	-350.	160.	2.	I
I	14	I	1000.	-338.	150.	0.	I
I	15	I	1000.	-325.	150.	2.	I
I	16	I	1000.	-312.	150.	5.	I
I	17	I	1000.	-300.	150.	4.	I
I	18	I	1000.	-288.	150.	0.	I
I	19	I	1000.	-275.	140.	0.	I
I	20	I	1000.	-263.	140.	0.	I
I	21	I	1000.	-250.	140.	2.	I
I	22	I	1000.	-238.	140.	2.	I
I	23	I	1000.	-225.	140.	0.	I
I	24	I	1000.	-213.	130.	5.	I
I	25	I	1000.	-200.	130.	10.	I
I	26	I	1000.	-187.	140.	10.	I
I	27	I	1000.	-175.	140.	14.	I
I	28	I	1000.	-163.	150.	15.	I
I	29	I	1000.	-150.	160.	14.	I
I	30	I	1000.	-138.	160.	14.	I
I	31	I	1000.	-125.	170.	10.	I
I	32	I	1000.	-113.	160.	6.	I
I	33	I	1000.	-100.	150.	6.	I
I	34	I	1000.	-87.	150.	8.	I
I	35	I	1000.	-75.	160.	10.	I
I	36	I	1000.	-62.	160.	10.	I
I	37	I	1000.	-50.	150.	8.	I
I	38	I	1000.	-37.	150.	10.	I
I	39	I	1000.	-25.	150.	12.	I
I	40	I	1000.	-12.	150.	14.	I
I	41	I	1000.	0.	150.	15.	I
I	42	I	1000.	12.	160.	14.	I
I	43	I	1000.	25.	160.	10.	I
I	44	I	1000.	37.	170.	12.	I
I	45	I	1000.	50.	160.	6.	I
I	46	I	1000.	62.	160.	8.	I
I	47	I	1000.	75.	160.	15.	I
I	48	I	1000.	87.	160.	15.	I
I	49	I	1000.	100.	180.	19.	I
I	50	I	1000.	113.	190.	15.	I

I L 1000E							
I No.	I	EAST	NRTH	FS	DIP	I	
I	51	I	1000.	125.	200.	10.	I
I	52	I	1000.	138.	190.	5.	I
I	53	I	1000.	150.	170.	5.	I
I	54	I	1000.	163.	180.	0.	I
I	55	I	1000.	175.	170.	-2.	I
I	56	I	1000.	187.	160.	0.	I
I	57	I	1000.	200.	150.	10.	I
I	58	I	1000.	213.	200.	14.	I
I	59	I	1000.	225.	180.	5.	I
I	60	I	1000.	238.	200.	0.	I
I	61	I	1000.	250.	220.	5.	I
I	62	I	1000.	263.	160.	2.	I
I	63	I	1000.	275.	190.	8.	I
I	64	I	1000.	288.	210.	4.	I
I	65	I	1000.	300.	210.	0.	I
I	66	I	1000.	312.	200.	-6.	I
I	67	I	1000.	325.	170.	-12.	I
I	68	I	1000.	338.	180.	-10.	I
I	69	I	1000.	350.	170.	-8.	I
I	70	I	1000.	363.	170.	-5.	I
I	71	I	1000.	375.	170.	-6.	I
I	72	I	1000.	388.	170.	-4.	I
I	73	I	1000.	400.	160.	0.	I
I	MIN	I	1000.	-500.	130.	-12.	I
I	MAX	I	1000.	400.	220.	19.	I
I	AV.	I	1000.	-50.	162.	5.	I
I	SD.	I	0.	263.	20.	6.	I

DIP ANGLE DATA

I L 1100E						I	
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	1100.	0.	170.	12.	I
I	2	I	1100.	12.	170.	12.	I
I	3	I	1100.	23.	180.	10.	I
I	4	I	1100.	37.	180.	10.	I
I	5	I	1100.	50.	180.	12.	I
I	6	I	1100.	62.	180.	8.	I
I	7	I	1100.	75.	180.	6.	I
I	8	I	1100.	87.	190.	6.	I
I	9	I	1100.	100.	200.	6.	I
I	10	I	1100.	113.	190.	6.	I
I	11	I	1100.	125.	200.	6.	I
I	12	I	1100.	138.	190.	4.	I
I	13	I	1100.	150.	180.	4.	I
I	14	I	1100.	163.	180.	5.	I
I	15	I	1100.	175.	180.	8.	I
I	16	I	1100.	187.	180.	6.	I
I	17	I	1100.	200.	180.	10.	I
I	18	I	1100.	213.	180.	8.	I
I	19	I	1100.	225.	180.	8.	I
I	20	I	1100.	238.	150.	10.	I
I	21	I	1100.	250.	190.	12.	I
I	22	I	1100.	263.	190.	10.	I
I	23	I	1100.	275.	200.	8.	I
I	24	I	1100.	288.	200.	6.	I
I	25	I	1100.	300.	200.	6.	I
I	26	I	1100.	312.	200.	6.	I
I	27	I	1100.	325.	200.	6.	I
I	28	I	1100.	338.	210.	6.	I
I	29	I	1100.	350.	210.	6.	I
I	30	I	1100.	363.	200.	2.	I
I	31	I	1100.	375.	190.	0.	I
I	32	I	1100.	388.	190.	-2.	I
I	33	I	1100.	400.	190.	0.	I
I	34	I	1100.	413.	190.	0.	I
I	35	I	1100.	425.	180.	0.	I
I	36	I	1100.	437.	180.	0.	I
I	37	I	1100.	450.	170.	-2.	I
I	MIN	I	1100.	0.	150.	-2.	I
I	MAX	I	1100.	450.	210.	12.	I
I	AV.	I	1100.	225.	187.	6.	I
I	SD.	I	0.	133.	12.	4.	I

DIP ANGLE DATA

I L 1200E							I
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	1200.	-600.	190.	-2.	I
I	2	I	1200.	-588.	190.	4.	I
I	3	I	1200.	-575.	210.	2.	I
I	4	I	1200.	-562.	210.	0.	I
I	5	I	1200.	-550.	200.	-3.	I
I	6	I	1200.	-538.	200.	-4.	I
I	7	I	1200.	-525.	190.	-5.	I
I	8	I	1200.	-513.	180.	-4.	I
I	9	I	1200.	-500.	180.	-2.	I
I	10	I	1200.	-488.	180.	-3.	I
I	11	I	1200.	-475.	180.	0.	I
I	12	I	1200.	-463.	170.	-4.	I
I	13	I	1200.	-450.	170.	0.	I
I	14	I	1200.	-437.	170.	3.	I
I	15	I	1200.	-425.	170.	0.	I
I	16	I	1200.	-413.	170.	2.	I
I	17	I	1200.	-400.	170.	3.	I
I	18	I	1200.	-388.	180.	3.	I
I	19	I	1200.	-375.	170.	4.	I
I	20	I	1200.	-363.	180.	5.	I
I	21	I	1200.	-350.	170.	8.	I
I	22	I	1200.	-338.	190.	10.	I
I	23	I	1200.	-325.	190.	8.	I
I	24	I	1200.	-312.	200.	3.	I
I	25	I	1200.	-300.	210.	3.	I
I	26	I	1200.	-288.	190.	2.	I
I	27	I	1200.	-275.	170.	0.	I
I	28	I	1200.	-263.	180.	2.	I
I	29	I	1200.	-250.	180.	2.	I
I	30	I	1200.	-238.	180.	5.	I
I	31	I	1200.	-225.	180.	10.	I
I	32	I	1200.	-213.	180.	6.	I
I	33	I	1200.	-200.	200.	6.	I
I	34	I	1200.	-187.	200.	6.	I
I	35	I	1200.	-175.	210.	8.	I
I	36	I	1200.	-163.	220.	2.	I
I	37	I	1200.	-150.	210.	0.	I
I	38	I	1200.	-138.	180.	-1.	I
I	39	I	1200.	-125.	180.	-2.	I
I	40	I	1200.	-113.	180.	0.	I
I	41	I	1200.	-100.	170.	2.	I
I	42	I	1200.	-87.	170.	2.	I
I	43	I	1200.	-75.	170.	4.	I
I	44	I	1200.	-62.	170.	5.	I
I	45	I	1200.	-50.	170.	6.	I
I	46	I	1200.	-37.	170.	6.	I
I	47	I	1200.	-25.	120.	10.	I
I	48	I	1200.	-12.	120.	15.	I
I	49	I	1200.	0.	130.	20.	I
I	50	I	1200.	12.	140.	24.	I

I L 1200E						I	
I No.	I	EAST	NRTH	FS	DIP	I	
I	51	I	1200.	25.	160.	30.	I
I	52	I	1200.	37.	180.	6.	I
I	53	I	1200.	50.	150.	10.	I
I	54	I	1200.	62.	150.	12.	I
I	55	I	1200.	75.	150.	16.	I
I	56	I	1200.	87.	200.	13.	I
I	57	I	1200.	100.	180.	0.	I
I	58	I	1200.	113.	160.	2.	I
I	59	I	1200.	125.	120.	0.	I
I	60	I	1200.	138.	120.	6.	I
I	61	I	1200.	150.	120.	10.	I
I	62	I	1200.	163.	130.	10.	I
I	63	I	1200.	175.	140.	10.	I
I	64	I	1200.	187.	140.	10.	I
I	65	I	1200.	200.	140.	8.	I
I	66	I	1200.	213.	140.	8.	I
I	67	I	1200.	225.	140.	12.	I
I	68	I	1200.	238.	140.	14.	I
I	69	I	1200.	250.	150.	14.	I
I	70	I	1200.	263.	160.	14.	I
I	71	I	1200.	275.	180.	8.	I
I	72	I	1200.	288.	170.	3.	I
I	73	I	1200.	300.	160.	3.	I
I	74	I	1200.	312.	160.	3.	I
I	75	I	1200.	325.	150.	10.	I
I	76	I	1200.	338.	150.	13.	I
I	77	I	1200.	350.	190.	14.	I
I	78	I	1200.	363.	190.	13.	I
I	79	I	1200.	375.	220.	8.	I
I	80	I	1200.	388.	200.	-3.	I
I	81	I	1200.	400.	250.	-2.	I
I	82	I	1200.	413.	220.	-3.	I
I	83	I	1200.	425.	220.	-8.	I
I	84	I	1200.	437.	210.	-6.	I
I	85	I	1200.	450.	210.	-6.	I
I	86	I	1200.	463.	210.	-8.	I
I	87	I	1200.	475.	200.	-10.	I
I	MIN	I	1200.	-600.	120.	-10.	I
I	MAX	I	1200.	475.	260.	30.	I
I	AV.	I	1200.	-62.	176.	3.	I
I	SD.	I	0.	314.	28.	7.	I

DIP ANGLE DATA

I L 1300E							
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	1300.	0.	100.	15.	I
I	2	I	1300.	12.	110.	16.	I
I	3	I	1300.	25.	110.	12.	I
I	4	I	1300.	37.	120.	10.	I
I	5	I	1300.	50.	100.	10.	I
I	6	I	1300.	62.	90.	18.	I
I	7	I	1300.	75.	100.	26.	I
I	8	I	1300.	87.	100.	35.	I
I	9	I	1300.	100.	170.	-4.	I
I	10	I	1300.	113.	120.	-4.	I
I	11	I	1300.	125.	110.	2.	I
I	12	I	1300.	138.	110.	8.	I
I	13	I	1300.	150.	110.	12.	I
I	14	I	1300.	163.	120.	12.	I
I	15	I	1300.	175.	120.	10.	I
I	16	I	1300.	187.	130.	10.	I
I	17	I	1300.	200.	130.	8.	I
I	18	I	1300.	213.	130.	6.	I
I	19	I	1300.	225.	130.	8.	I
I	20	I	1300.	238.	130.	10.	I
I	21	I	1300.	50.	100.	15.	I
I	22	I	1300.	263.	140.	15.	I
I	23	I	1300.	275.	150.	15.	I
I	24	I	1300.	288.	130.	16.	I
I	25	I	1300.	300.	150.	8.	I
I	26	I	1300.	312.	280.	-2.	I
I	27	I	1300.	325.	270.	-6.	I
I	28	I	1300.	338.	250.	-4.	I
I	29	I	1300.	350.	260.	-8.	I
I	30	I	1300.	363.	230.	-12.	I
I	31	I	1300.	375.	220.	-10.	I
I	32	I	1300.	388.	220.	-10.	I
I	33	I	1300.	400.	200.	-10.	I
I	34	I	1300.	413.	200.	-6.	I
I	35	I	1300.	425.	200.	-5.	I
I	36	I	1300.	437.	190.	-2.	I
I	37	I	1300.	450.	210.	-4.	I
I	38	I	1300.	463.	200.	-4.	I
I	39	I	1300.	475.	200.	-4.	I
I	40	I	1300.	488.	200.	-4.	I
I	41	I	1300.	500.	190.	-8.	I
I	MIN	I	1300.	0.	90.	-12.	I
I	MAX	I	1300.	500.	280.	35.	I
I	AV.	I	1300.	250.	160.	5.	I
I	SD.	I	0.	148.	53.	11.	I

DIP ANGLE DATA

I L 1400E							I
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	1400.	-700.	190.	4.	I
I	2	I	1400.	-687.	190.	6.	I
I	3	I	1400.	-675.	200.	8.	I
I	4	I	1400.	-663.	210.	6.	I
I	5	I	1400.	-650.	210.	6.	I
I	6	I	1400.	-638.	210.	4.	I
I	7	I	1400.	-625.	210.	2.	I
I	8	I	1400.	-613.	210.	2.	I
I	9	I	1400.	-600.	210.	2.	I
I	10	I	1400.	-588.	210.	2.	I
I	11	I	1400.	-575.	210.	2.	I
I	12	I	1400.	-562.	220.	2.	I
I	13	I	1400.	-550.	220.	0.	I
I	14	I	1400.	-538.	220.	0.	I
I	15	I	1400.	-525.	240.	0.	I
I	16	I	1400.	-513.	210.	0.	I
I	17	I	1400.	-500.	220.	0.	I
I	18	I	1400.	-488.	220.	0.	I
I	19	I	1400.	-475.	210.	0.	I
I	20	I	1400.	-463.	210.	2.	I
I	21	I	1400.	-450.	210.	4.	I
I	22	I	1400.	-437.	210.	4.	I
I	23	I	1400.	-425.	220.	6.	I
I	24	I	1400.	-413.	220.	4.	I
I	25	I	1400.	-400.	230.	6.	I
I	26	I	1400.	-388.	230.	6.	I
I	27	I	1400.	-375.	230.	6.	I
I	28	I	1400.	-363.	230.	6.	I
I	29	I	1400.	-350.	240.	6.	I
I	30	I	1400.	-338.	230.	6.	I
I	31	I	1400.	-325.	230.	2.	I
I	32	I	1400.	-312.	230.	2.	I
I	33	I	1400.	-300.	220.	2.	I
I	34	I	1400.	-288.	220.	4.	I
I	35	I	1400.	-275.	220.	4.	I
I	36	I	1400.	-263.	220.	6.	I
I	37	I	1400.	-250.	220.	8.	I
I	38	I	1400.	-238.	230.	10.	I
I	39	I	1400.	-225.	230.	10.	I
I	40	I	1400.	-213.	250.	8.	I
I	41	I	1400.	-200.	250.	6.	I
I	42	I	1400.	-187.	240.	0.	I
I	43	I	1400.	-175.	240.	0.	I
I	44	I	1400.	-163.	240.	0.	I
I	45	I	1400.	-150.	230.	0.	I
I	46	I	1400.	-138.	230.	0.	I
I	47	I	1400.	-125.	220.	2.	I
I	48	I	1400.	-113.	210.	0.	I
I	49	I	1400.	-100.	210.	2.	I
I	50	I	1400.	-87.	200.	4.	I

I L 1400E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	51	I	1400.	-75.	200.	5	I
I	52	I	1400.	-62.	220.	8	I
I	53	I	1400.	-56.	210.	6	I
I	54	I	1400.	-37.	210.	4	I
I	55	I	1400.	-25.	210.	4	I
I	56	I	1400.	-12.	140.	10	I
I	57	I	1400.	0.	130.	12	I
I	58	I	1400.	12.	160.	10	I
I	59	I	1400.	25.	200.	10	I
I	60	I	1400.	37.	180.	0	I
I	61	I	1400.	50.	150.	-2	I
I	62	I	1400.	62.	140.	0	I
I	63	I	1400.	75.	150.	4	I
I	64	I	1400.	87.	150.	6	I
I	65	I	1400.	100.	150.	5	I
I	66	I	1400.	113.	150.	6	I
I	67	I	1400.	125.	150.	10	I
I	68	I	1400.	138.	140.	14	I
I	69	I	1400.	150.	150.	15	I
I	70	I	1400.	163.	160.	15	I
I	71	I	1400.	175.	170.	12	I
I	72	I	1400.	187.	170.	8	I
I	73	I	1400.	200.	180.	12	I
I	74	I	1400.	213.	190.	6	I
I	75	I	1400.	225.	190.	5	I
I	76	I	1400.	238.	180.	4	I
I	77	I	1400.	250.	180.	3	I
I	78	I	1400.	263.	180.	4	I
I	79	I	1400.	275.	180.	0	I
I	80	I	1400.	288.	180.	0	I
I	81	I	1400.	300.	180.	-2	I
I	82	I	1400.	312.	180.	-4	I
I	83	I	1400.	325.	180.	-6	I
I	84	I	1400.	338.	170.	-8	I
I	85	I	1400.	350.	160.	-8	I
I	86	I	1400.	363.	160.	-8	I
I	87	I	1400.	375.	150.	-8	I
I	88	I	1400.	388.	150.	-10	I
I	89	I	1400.	400.	140.	-10	I
I	90	I	1400.	413.	150.	-12	I
I	91	I	1400.	425.	150.	0	I
I	92	I	1400.	437.	150.	0	I
I	93	I	1400.	450.	150.	0	I
I	94	I	1400.	463.	160.	-4	I
I	95	I	1400.	475.	150.	-4	I
I	96	I	1400.	488.	150.	-2	I
I	97	I	1400.	500.	150.	-10	I
I	98	I	1400.	513.	150.	-10	I
I	99	I	1400.	525.	140.	-8	I
I	100	I	1400.	538.	140.	-8	I

I L 1400E						I
I No.	I	EAST	NRTH	FS	DIP	I
I 101	I	1400.	550.	150.	-8.	I
I MIN	I	1400.	-700.	130.	-8.	I
I MAX	I	1400.	550.	250.	15.	I
I AV.	I	1400.	-75.	192.	3.	I
I SD.	I	0.	364.	33.	5.	I

DIP ANGLE DATA

I L 1500E							I
I No.	I	EAST	NRTH	FS	DIP	I	
I 1	I	1500.	0.	150.	-4.	I	
I 2	I	1500.	12.	160.	-2.	I	
I 3	I	1500.	23.	160.	0.	I	
I 4	I	1500.	37.	150.	-2.	I	
I 5	I	1500.	50.	150.	0.	I	
I 6	I	1500.	62.	150.	0.	I	
I 7	I	1500.	73.	150.	0.	I	
I 8	I	1500.	87.	140.	2.	I	
I 9	I	1500.	100.	130.	2.	I	
I 10	I	1500.	113.	130.	10.	I	
I 11	I	1500.	123.	130.	13.	I	
I 12	I	1500.	138.	140.	16.	I	
I 13	I	1500.	150.	150.	18.	I	
I 14	I	1500.	163.	170.	16.	I	
I 15	I	1500.	173.	170.	12.	I	
I 16	I	1500.	187.	180.	10.	I	
I 17	I	1500.	200.	170.	9.	I	
I 18	I	1500.	213.	170.	10.	I	
I 19	I	1500.	223.	170.	12.	I	
I 20	I	1500.	238.	180.	7.	I	
I 21	I	1500.	250.	190.	2.	I	
I 22	I	1500.	263.	180.	-2.	I	
I 23	I	1500.	273.	160.	-4.	I	
I 24	I	1500.	288.	170.	0.	I	
I 25	I	1500.	300.	160.	0.	I	
I 26	I	1500.	312.	150.	0.	I	
I 27	I	1500.	323.	150.	2.	I	
I 28	I	1500.	338.	150.	5.	I	
I 29	I	1500.	350.	150.	9.	I	
I 30	I	1500.	363.	150.	22.	I	
I 31	I	1500.	373.	190.	14.	I	
I 32	I	1500.	388.	200.	2.	I	
I 33	I	1500.	400.	190.	-12.	I	
I 34	I	1500.	413.	150.	-10.	I	
I 35	I	1500.	423.	150.	-6.	I	
I 36	I	1500.	437.	150.	-5.	I	
I 37	I	1500.	450.	150.	-2.	I	
I 38	I	1500.	463.	150.	-4.	I	
I 39	I	1500.	473.	150.	-2.	I	
I 40	I	1500.	488.	150.	-5.	I	
I 41	I	1500.	500.	510.	-2.	I	
I 42	I	1500.	513.	150.	-4.	I	
I 43	I	1500.	523.	150.	-6.	I	
I 44	I	1500.	538.	150.	-6.	I	
I 45	I	1500.	550.	140.	-6.	I	
I MIN	I	1500.	0.	130.	-12.	I	
I MAX	I	1500.	550.	510.	22.	I	
I AV.	I	1500.	275.	165.	2.	I	
I SD.	I	0.	162.	54.	8.	I	

DIP ANGLE DATA

I L 1'00E						I	
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	1600.	-900.	130.	0.	I
I	2	I	1600.	-888.	125.	0.	I
I	3	I	1600.	-875.	120.	0.	I
I	4	I	1600.	-863.	130.	2.	I
I	5	I	1600.	-850.	120.	2.	I
I	6	I	1600.	-838.	125.	2.	I
I	7	I	1600.	-825.	130.	2.	I
I	8	I	1600.	-812.	130.	0.	I
I	9	I	1600.	-800.	120.	0.	I
I	10	I	1600.	-788.	120.	0.	I
I	11	I	1600.	-775.	120.	0.	I
I	12	I	1600.	-763.	115.	3.	I
I	13	I	1600.	-750.	110.	2.	I
I	14	I	1600.	-738.	110.	3.	I
I	15	I	1600.	-725.	115.	5.	I
I	16	I	1600.	-713.	120.	5.	I
I	17	I	1600.	-700.	125.	4.	I
I	18	I	1600.	-687.	130.	3.	I
I	19	I	1600.	-675.	130.	2.	I
I	20	I	1600.	-663.	125.	0.	I
I	21	I	1600.	-650.	120.	0.	I
I	22	I	1600.	-638.	120.	0.	I
I	23	I	1600.	-625.	120.	0.	I
I	24	I	1600.	-613.	120.	0.	I
I	25	I	1600.	-600.	125.	2.	I
I	26	I	1600.	-588.	210.	2.	I
I	27	I	1600.	-575.	125.	2.	I
I	28	I	1600.	-563.	120.	4.	I
I	29	I	1600.	-550.	120.	2.	I
I	30	I	1600.	-538.	120.	4.	I
I	31	I	1600.	-525.	120.	4.	I
I	32	I	1600.	-513.	125.	2.	I
I	33	I	1600.	-500.	125.	2.	I
I	34	I	1600.	-488.	120.	0.	I
I	35	I	1600.	-475.	120.	4.	I
I	36	I	1600.	-463.	125.	0.	I
I	37	I	1600.	-450.	130.	0.	I
I	38	I	1600.	-437.	130.	0.	I
I	39	I	1600.	-425.	120.	0.	I
I	40	I	1600.	-413.	120.	0.	I
I	41	I	1600.	-400.	120.	0.	I
I	42	I	1600.	-388.	120.	0.	I
I	43	I	1600.	-375.	120.	0.	I
I	44	I	1600.	-363.	120.	2.	I
I	45	I	1600.	-350.	120.	3.	I
I	46	I	1600.	-338.	120.	3.	I
I	47	I	1600.	-325.	120.	3.	I
I	48	I	1600.	-312.	120.	6.	I
I	49	I	1600.	-300.	120.	8.	I
I	50	I	1600.	-288.	120.	8.	I

I L 1600E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	51	I	1600.	-275.	130.	8.	I
I	52	I	1600.	-263.	130.	8.	I
I	53	I	1600.	-250.	130.	8.	I
I	54	I	1600.	-238.	140.	8.	I
I	55	I	1600.	-225.	140.	8.	I
I	56	I	1600.	-213.	140.	4.	I
I	57	I	1600.	-200.	140.	5.	I
I	58	I	1600.	-187.	140.	4.	I
I	59	I	1600.	-175.	130.	2.	I
I	60	I	1600.	-163.	140.	4.	I
I	61	I	1600.	-150.	130.	4.	I
I	62	I	1600.	-138.	130.	8.	I
I	63	I	1600.	-125.	140.	8.	I
I	64	I	1600.	-113.	160.	10.	I
I	65	I	1600.	-100.	160.	-2.	I
I	66	I	1600.	-87.	140.	-2.	I
I	67	I	1600.	-75.	130.	0.	I
I	68	I	1600.	-62.	130.	0.	I
I	69	I	1600.	-50.	120.	2.	I
I	70	I	1600.	-37.	130.	10.	I
I	71	I	1600.	-25.	150.	18.	I
I	72	I	1600.	-12.	200.	8.	I
I	73	I	1600.	0.	170.	-17.	I
I	74	I	1600.	12.	130.	-18.	I
I	75	I	1600.	25.	120.	-12.	I
I	76	I	1600.	37.	120.	-6.	I
I	77	I	1600.	50.	125.	-4.	I
I	78	I	1600.	62.	120.	-2.	I
I	79	I	1600.	75.	120.	2.	I
I	80	I	1600.	87.	120.	2.	I
I	81	I	1600.	100.	130.	7.	I
I	82	I	1600.	113.	130.	2.	I
I	83	I	1600.	125.	130.	4.	I
I	84	I	1600.	138.	140.	4.	I
I	85	I	1600.	150.	130.	8.	I
I	86	I	1600.	163.	130.	10.	I
I	87	I	1600.	175.	130.	8.	I
I	88	I	1600.	187.	140.	12.	I
I	89	I	1600.	200.	140.	13.	I
I	90	I	1600.	213.	160.	13.	I
I	91	I	1600.	225.	170.	8.	I
I	92	I	1600.	238.	170.	0.	I
I	93	I	1600.	250.	160.	0.	I
I	94	I	1600.	263.	150.	2.	I
I	95	I	1600.	275.	160.	2.	I
I	96	I	1600.	288.	160.	0.	I
I	97	I	1600.	300.	150.	0.	I
I	98	I	1600.	312.	140.	0.	I
I	99	I	1600.	325.	140.	4.	I
I	100	I	1600.	338.	150.	0.	I

I L 1600E						I
I No.	I	EAST	NRTH	FS	DIP	I
I 101	I	1600.	350.	130.	0.	I
I 102	I	1600.	363.	130.	4.	I
I 103	I	1600.	375.	140.	8.	I
I 104	I	1600.	388.	150.	10.	I
I 105	I	1600.	400.	170.	6.	I
I 106	I	1600.	413.	160.	0.	I
I 107	I	1600.	425.	160.	-2.	I
I 108	I	1600.	437.	150.	0.	I
I 109	I	1600.	450.	150.	-4.	I
I 110	I	1600.	463.	150.	-2.	I
I 111	I	1600.	475.	150.	-4.	I
I 112	I	1600.	488.	150.	-6.	I
I 113	I	1600.	500.	150.	-6.	I
I 114	I	1600.	513.	140.	-5.	I
I 115	I	1600.	525.	140.	-10.	I
I 116	I	1600.	538.	140.	-11.	I
I 117	I	1600.	550.	130.	-12.	I
I 118	I	1600.	562.	130.	-13.	I
I 119	I	1600.	575.	120.	-12.	I
I 120	I	1600.	588.	120.	-12.	I
I 121	I	1600.	600.	120.	-12.	I
I MIN	I	1600.	-900.	110.	-18.	I
I MAX	I	1600.	600.	210.	18.	I
I AV.	I	1600.	-150.	134.	2.	I
I SD.	I	0.	437.	17.	6.	I

DIP ANGLE DATA

I L 1700E							I
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	1700.	-100.	230.	-6.	I
I	2	I	1700.	-87.	240.	-5.	I
I	3	I	1700.	-75.	210.	-5.	I
I	4	I	1700.	-62.	210.	0.	I
I	5	I	1700.	-50.	205.	4.	I
I	6	I	1700.	-37.	230.	4.	I
I	7	I	1700.	-25.	250.	0.	I
I	8	I	1700.	-12.	260.	-4.	I
I	9	I	1700.	0.	235.	-14.	I
I	10	I	1700.	12.	210.	-8.	I
I	11	I	1700.	25.	210.	-6.	I
I	12	I	1700.	37.	200.	-4.	I
I	13	I	1700.	50.	200.	-6.	I
I	14	I	1700.	62.	200.	-5.	I
I	15	I	1700.	75.	190.	-4.	I
I	16	I	1700.	87.	180.	0.	I
I	17	I	1700.	100.	190.	2.	I
I	18	I	1700.	113.	190.	2.	I
I	19	I	1700.	125.	195.	3.	I
I	20	I	1700.	138.	190.	4.	I
I	21	I	1700.	150.	200.	4.	I
I	22	I	1700.	163.	200.	4.	I
I	23	I	1700.	175.	200.	5.	I
I	24	I	1700.	187.	200.	8.	I
I	25	I	1700.	200.	205.	8.	I
I	26	I	1700.	213.	220.	10.	I
I	27	I	1700.	225.	215.	12.	I
I	28	I	1700.	238.	220.	10.	I
I	29	I	1700.	250.	230.	10.	I
I	30	I	1700.	263.	250.	8.	I
I	31	I	1700.	275.	290.	4.	I
I	32	I	1700.	288.	250.	-12.	I
I	33	I	1700.	300.	210.	-12.	I
I	34	I	1700.	312.	210.	-5.	I
I	35	I	1700.	325.	210.	-4.	I
I	36	I	1700.	338.	210.	-2.	I
I	37	I	1700.	350.	220.	0.	I
I	38	I	1700.	363.	230.	0.	I
I	39	I	1700.	375.	215.	-4.	I
I	40	I	1700.	388.	220.	0.	I
I	41	I	1700.	400.	220.	2.	I
I	42	I	1700.	413.	230.	2.	I
I	43	I	1700.	425.	230.	0.	I
I	44	I	1700.	437.	240.	0.	I
I	45	I	1700.	450.	230.	0.	I
I	46	I	1700.	463.	230.	0.	I
I	47	I	1700.	475.	220.	-6.	I
I	48	I	1700.	488.	215.	-8.	I
I	49	I	1700.	500.	210.	-6.	I
I	50	I	1700.	513.	210.	-7.	I

I L 1700E							I
I No.	I	EAST	NRTH	FS	DIP	I	I
I 31	I	1700.	525.	200.	-10.	I	I
I 52	I	1700.	538.	190.	-12.	I	I
I 53	I	1700.	550.	180.	-10.	I	I
I MIN	I	1700.	-100.	180.	-14.	I	I
I MAX	I	1700.	550.	290.	12.	I	I
I AV.	I	1700.	25.	216.	-1.	I	I
I SD.	I	0.	191.	21.	6.	I	I

DIP ANGLE DATA

I L 1800E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	1800.	-1700.	170.	4.	I
I	2	I	1800.	-1688.	180.	2.	I
I	3	I	1800.	-1675.	180.	0.	I
I	4	I	1800.	-1663.	170.	0.	I
I	5	I	1800.	-1650.	175.	3.	I
I	6	I	1800.	-1638.	170.	3.	I
I	7	I	1800.	-1625.	180.	4.	I
I	8	I	1800.	-1613.	180.	4.	I
I	9	I	1800.	-1600.	180.	3.	I
I	10	I	1800.	-1588.	200.	2.	I
I	11	I	1800.	-1575.	200.	2.	I
I	12	I	1800.	-1562.	180.	2.	I
I	13	I	1800.	-1550.	180.	2.	I
I	14	I	1800.	-1538.	170.	2.	I
I	15	I	1800.	-1525.	170.	0.	I
I	16	I	1800.	-1513.	170.	0.	I
I	17	I	1800.	-1500.	170.	0.	I
I	18	I	1800.	-1488.	170.	3.	I
I	19	I	1800.	-1475.	180.	2.	I
I	20	I	1800.	-1463.	180.	3.	I
I	21	I	1800.	-1450.	180.	3.	I
I	22	I	1800.	-1438.	190.	0.	I
I	23	I	1800.	-1425.	180.	4.	I
I	24	I	1800.	-1413.	170.	2.	I
I	25	I	1800.	-1400.	170.	4.	I
I	26	I	1800.	-1388.	170.	4.	I
I	27	I	1800.	-1375.	160.	2.	I
I	28	I	1800.	-1363.	160.	2.	I
I	29	I	1800.	-1350.	160.	2.	I
I	30	I	1800.	-1338.	170.	4.	I
I	31	I	1800.	-1325.	180.	0.	I
I	32	I	1800.	-1313.	170.	2.	I
I	33	I	1800.	-1300.	160.	2.	I
I	34	I	1800.	-1288.	160.	2.	I
I	35	I	1800.	-1275.	150.	2.	I
I	36	I	1800.	-1263.	150.	2.	I
I	37	I	1800.	-1250.	140.	4.	I
I	38	I	1800.	-1238.	160.	4.	I
I	39	I	1800.	-1225.	170.	3.	I
I	40	I	1800.	-1213.	170.	3.	I
I	41	I	1800.	-1200.	170.	3.	I
I	42	I	1800.	-1188.	180.	4.	I
I	43	I	1800.	-1175.	170.	0.	I
I	44	I	1800.	-1163.	170.	0.	I
I	45	I	1800.	-1150.	170.	0.	I
I	46	I	1800.	-1138.	165.	2.	I
I	47	I	1800.	-1125.	160.	3.	I
I	48	I	1800.	-1113.	170.	2.	I
I	49	I	1800.	-1100.	170.	0.	I
I	50	I	1800.	-1088.	170.	0.	I

I L 1800E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	51	I	1800.	-1075.	170.	0.	I
I	52	I	1800.	-1063.	170.	2.	I
I	53	I	1800.	-1050.	170.	4.	I
I	54	I	1800.	-1038.	170.	3.	I
I	55	I	1800.	-1025.	180.	2.	I
I	56	I	1800.	-1013.	180.	0.	I
I	57	I	1800.	-1000.	170.	-2.	I
I	58	I	1800.	-988.	170.	-4.	I
I	59	I	1800.	-975.	180.	-2.	I
I	60	I	1800.	-963.	180.	-3.	I
I	61	I	1800.	-950.	180.	-2.	I
I	62	I	1800.	-937.	180.	-6.	I
I	63	I	1800.	-925.	160.	-8.	I
I	64	I	1800.	-913.	150.	-6.	I
I	65	I	1800.	-900.	150.	-4.	I
I	66	I	1800.	-888.	150.	-2.	I
I	67	I	1800.	-875.	140.	-2.	I
I	68	I	1800.	-863.	140.	-2.	I
I	69	I	1800.	-850.	140.	-2.	I
I	70	I	1800.	-838.	135.	0.	I
I	71	I	1800.	-825.	140.	0.	I
I	72	I	1800.	-812.	135.	4.	I
I	73	I	1800.	-800.	140.	4.	I
I	74	I	1800.	-788.	140.	4.	I
I	75	I	1800.	-775.	145.	5.	I
I	76	I	1800.	-763.	150.	4.	I
I	77	I	1800.	-750.	150.	4.	I
I	78	I	1800.	-738.	150.	4.	I
I	79	I	1800.	-725.	145.	5.	I
I	80	I	1800.	-713.	140.	6.	I
I	81	I	1800.	-700.	150.	7.	I
I	82	I	1800.	-687.	140.	7.	I
I	83	I	1800.	-675.	150.	7.	I
I	84	I	1800.	-663.	180.	2.	I
I	85	I	1800.	-650.	180.	4.	I
I	86	I	1800.	-638.	180.	5.	I
I	87	I	1800.	-625.	185.	4.	I
I	88	I	1800.	-613.	180.	4.	I
I	89	I	1800.	-600.	180.	4.	I
I	90	I	1800.	-588.	180.	4.	I
I	91	I	1800.	-575.	180.	4.	I
I	92	I	1800.	-562.	180.	4.	I
I	93	I	1800.	-550.	180.	5.	I
I	94	I	1800.	-538.	180.	4.	I
I	95	I	1800.	-525.	180.	6.	I
I	96	I	1800.	-513.	180.	5.	I
I	97	I	1800.	-500.	180.	6.	I
I	98	I	1800.	-488.	180.	6.	I
I	99	I	1800.	-475.	180.	6.	I
I	100	I	1800.	-463.	180.	6.	I

I L 1800E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	101	I	1800.	-450.	180.	7.	I
I	102	I	1800.	-437.	185.	5.	I
I	103	I	1800.	-425.	180.	6.	I
I	104	I	1800.	-413.	190.	5.	I
I	105	I	1800.	-400.	190.	6.	I
I	106	I	1800.	-388.	190.	5.	I
I	107	I	1800.	-375.	190.	3.	I
I	108	I	1800.	-363.	180.	2.	I
I	109	I	1800.	-350.	180.	2.	I
I	110	I	1800.	-338.	180.	3.	I
I	111	I	1800.	-325.	180.	3.	I
I	112	I	1800.	-312.	180.	4.	I
I	113	I	1800.	-300.	185.	6.	I
I	114	I	1800.	-288.	190.	6.	I
I	115	I	1800.	-275.	195.	6.	I
I	116	I	1800.	-263.	200.	5.	I
I	117	I	1800.	-250.	200.	5.	I
I	118	I	1800.	-238.	195.	4.	I
I	119	I	1800.	-225.	200.	4.	I
I	120	I	1800.	-213.	200.	2.	I
I	121	I	1800.	-200.	200.	4.	I
I	122	I	1800.	-187.	205.	3.	I
I	123	I	1800.	-175.	200.	2.	I
I	124	I	1800.	-163.	200.	0.	I
I	125	I	1800.	-150.	200.	2.	I
I	126	I	1800.	-138.	205.	0.	I
I	127	I	1800.	-125.	190.	0.	I
I	128	I	1800.	-113.	200.	0.	I
I	129	I	1800.	-100.	200.	0.	I
I	130	I	1800.	-87.	200.	0.	I
I	131	I	1800.	-75.	190.	2.	I
I	132	I	1800.	-62.	190.	0.	I
I	133	I	1800.	-50.	190.	0.	I
I	134	I	1800.	-37.	195.	2.	I
I	135	I	1800.	-25.	190.	0.	I
I	136	I	1800.	-12.	195.	5.	I
I	137	I	1800.	0.	220.	6.	I
I	138	I	1800.	12.	250.	2.	I
I	139	I	1800.	25.	210.	3.	I
I	140	I	1800.	37.	200.	4.	I
I	141	I	1800.	50.	190.	3.	I
I	142	I	1800.	62.	190.	6.	I
I	143	I	1800.	75.	180.	4.	I
I	144	I	1800.	87.	180.	2.	I
I	145	I	1800.	100.	205.	6.	I
I	146	I	1800.	113.	200.	0.	I
I	147	I	1800.	125.	200.	3.	I
I	148	I	1800.	138.	250.	2.	I
I	149	I	1800.	150.	215.	6.	I
I	150	I	1800.	163.	200.	6.	I

I L 1800E						I
I No.	I	EAST	NRTH	FS	DIP	I
I 151	I	1800.	175.	200.	-4.	I
I 152	I	1800.	187.	205.	-2.	I
I 153	I	1800.	200.	210.	-2.	I
I 154	I	1800.	213.	190.	-2.	I
I 155	I	1800.	225.	200.	0.	I
I 156	I	1800.	238.	205.	-2.	I
I 157	I	1800.	250.	210.	-2.	I
I 158	I	1800.	263.	210.	-3.	I
I 159	I	1800.	275.	205.	-6.	I
I 160	I	1800.	288.	190.	-6.	I
I 161	I	1800.	300.	180.	-4.	I
I 162	I	1800.	312.	170.	0.	I
I 163	I	1800.	325.	165.	4.	I
I 164	I	1800.	338.	180.	8.	I
I 165	I	1800.	350.	210.	8.	I
I 166	I	1800.	363.	230.	6.	I
I 167	I	1800.	375.	240.	0.	I
I 168	I	1800.	388.	240.	-4.	I
I 169	I	1800.	400.	220.	-5.	I
I 170	I	1800.	413.	205.	-6.	I
I 171	I	1800.	425.	200.	-6.	I
I 172	I	1800.	437.	200.	-4.	I
I 173	I	1800.	450.	180.	-4.	I
I 174	I	1800.	463.	185.	-4.	I
I 175	I	1800.	475.	180.	-2.	I
I 176	I	1800.	488.	190.	-2.	I
I 177	I	1800.	500.	190.	-2.	I
I 178	I	1800.	513.	170.	-2.	I
I 179	I	1800.	525.	170.	-2.	I
I 180	I	1800.	538.	170.	2.	I
I 181	I	1800.	550.	160.	2.	I
I 182	I	1800.	563.	150.	7.	I
I 183	I	1800.	575.	150.	10.	I
I 184	I	1800.	588.	140.	15.	I
I 185	I	1800.	600.	160.	20.	I
I 186	I	1800.	613.	160.	20.	I
I 187	I	1800.	625.	170.	18.	I
I 188	I	1800.	638.	185.	20.	I
I 189	I	1800.	650.	190.	16.	I
I 190	I	1800.	663.	210.	20.	I
I 191	I	1800.	675.	220.	14.	I
I MIN	I	1800.	-1700.	135.	-8.	I
I MAX	I	1800.	675.	250.	20.	I
I AV.	I	1800.	-513.	180.	2.	I
I SD.	I	0.	689.	21.	5.	I

DIP ANGLE DATA

I L 1900E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	1900.	-100.	210.	0.	I
I	2	I	1900.	-87.	210.	4.	I
I	3	I	1900.	-75.	205.	6.	I
I	4	I	1900.	-62.	210.	10.	I
I	5	I	1900.	-50.	220.	12.	I
I	6	I	1900.	-37.	230.	15.	I
I	7	I	1900.	-25.	270.	20.	I
I	8	I	1900.	-12.	400.	12.	I
I	9	I	1900.	0.	300.	-12.	I
I	10	I	1900.	12.	250.	-15.	I
I	11	I	1900.	25.	225.	-10.	I
I	12	I	1900.	37.	230.	-7.	I
I	13	I	1900.	50.	210.	-12.	I
I	14	I	1900.	62.	200.	-8.	I
I	15	I	1900.	75.	200.	-5.	I
I	16	I	1900.	87.	190.	0.	I
I	17	I	1900.	100.	210.	5.	I
I	18	I	1900.	113.	240.	4.	I
I	19	I	1900.	125.	240.	2.	I
I	20	I	1900.	138.	250.	-6.	I
I	21	I	1900.	150.	250.	-12.	I
I	22	I	1900.	163.	210.	-10.	I
I	23	I	1900.	175.	200.	-8.	I
I	24	I	1900.	187.	200.	-8.	I
I	25	I	1900.	200.	200.	-4.	I
I	26	I	1900.	213.	200.	-4.	I
I	27	I	1900.	225.	200.	0.	I
I	28	I	1900.	238.	200.	2.	I
I	29	I	1900.	250.	220.	4.	I
I	30	I	1900.	263.	210.	4.	I
I	31	I	1900.	275.	210.	4.	I
I	32	I	1900.	288.	190.	6.	I
I	33	I	1900.	300.	200.	10.	I
I	34	I	1900.	312.	210.	10.	I
I	35	I	1900.	325.	200.	10.	I
I	36	I	1900.	338.	200.	14.	I
I	37	I	1900.	350.	210.	14.	I
I	38	I	1900.	363.	210.	14.	I
I	39	I	1900.	375.	220.	18.	I
I	40	I	1900.	388.	280.	20.	I
I	41	I	1900.	400.	400.	10.	I
I	42	I	1900.	413.	360.	-10.	I
I	43	I	1900.	425.	255.	-14.	I
I	44	I	1900.	437.	240.	-8.	I
I	45	I	1900.	450.	240.	2.	I
I	46	I	1900.	463.	260.	-10.	I
I	47	I	1900.	475.	270.	-15.	I
I	48	I	1900.	488.	165.	-10.	I
I	49	I	1900.	500.	160.	0.	I
I	50	I	1900.	513.	160.	10.	I

I L 1900E						
I No.	I	EAST	NRTH	FS	DIP	I
I 51	I	1900.	525.	200.	12.	I
I 52	I	1900.	538.	210.	12.	I
I 53	I	1900.	550.	220.	6.	I
I MIN	I	1900.	-100.	160.	-15.	I
I MAX	I	1900.	530.	400.	20.	I
I AV.	I	1900.	225.	226.	2.	I
I SD.	I	0.	191.	47.	10.	I

DIP ANGLE DATA

I L 2000E							
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	2000.	-750.	215.	5.	I
I	2	I	2000.	-738.	215.	4.	I
I	3	I	2000.	-725.	210.	8.	I
I	4	I	2000.	-713.	215.	5.	I
I	5	I	2000.	-700.	215.	8.	I
I	6	I	2000.	-687.	215.	8.	I
I	7	I	2000.	-675.	215.	10.	I
I	8	I	2000.	-663.	220.	6.	I
I	9	I	2000.	-650.	220.	5.	I
I	10	I	2000.	-638.	220.	6.	I
I	11	I	2000.	-625.	215.	4.	I
I	12	I	2000.	-613.	210.	4.	I
I	13	I	2000.	-600.	220.	4.	I
I	14	I	2000.	-588.	220.	5.	I
I	15	I	2000.	-575.	205.	4.	I
I	16	I	2000.	-563.	210.	5.	I
I	17	I	2000.	-550.	210.	8.	I
I	18	I	2000.	-538.	210.	4.	I
I	19	I	2000.	-525.	205.	4.	I
I	20	I	2000.	-513.	205.	4.	I
I	21	I	2000.	-500.	210.	8.	I
I	22	I	2000.	-488.	210.	14.	I
I	23	I	2000.	-475.	215.	10.	I
I	24	I	2000.	-463.	220.	8.	I
I	25	I	2000.	-450.	230.	12.	I
I	26	I	2000.	-437.	230.	10.	I
I	27	I	2000.	-425.	230.	10.	I
I	28	I	2000.	-413.	230.	14.	I
I	29	I	2000.	-400.	250.	14.	I
I	30	I	2000.	-388.	270.	10.	I
I	31	I	2000.	-375.	270.	5.	I
I	32	I	2000.	-363.	270.	2.	I
I	33	I	2000.	-350.	280.	2.	I
I	34	I	2000.	-338.	280.	1.	I
I	35	I	2000.	-325.	270.	7.	I
I	36	I	2000.	-312.	250.	10.	I
I	37	I	2000.	-300.	245.	10.	I
I	38	I	2000.	-288.	225.	10.	I
I	39	I	2000.	-275.	220.	10.	I
I	40	I	2000.	-263.	225.	6.	I
I	41	I	2000.	-250.	220.	2.	I
I	42	I	2000.	-238.	220.	0.	I
I	43	I	2000.	-225.	230.	0.	I
I	44	I	2000.	-213.	230.	4.	I
I	45	I	2000.	-200.	240.	4.	I
I	46	I	2000.	-187.	250.	2.	I
I	47	I	2000.	-175.	250.	0.	I
I	48	I	2000.	-163.	240.	2.	I
I	49	I	2000.	-150.	240.	2.	I
I	50	I	2000.	-138.	220.	4.	I

I L 2000E						I
I No.	I	EAST	NRTH	FS	DIP	I
I 51	I	2000.	-125.	220.	-3.	I
I 52	I	2000.	-113.	210.	0.	I
I 53	I	2000.	-100.	205.	-2.	I
I 54	I	2000.	-87.	200.	0.	I
I 55	I	2000.	-75.	210.	4.	I
I 56	I	2000.	-62.	210.	2.	I
I 57	I	2000.	-50.	220.	8.	I
I 58	I	2000.	-37.	220.	10.	I
I 59	I	2000.	-25.	260.	15.	I
I 60	I	2000.	-12.	310.	4.	I
I 61	I	2000.	0.	260.	-2.	I
I 62	I	2000.	12.	260.	0.	I
I 63	I	2000.	25.	260.	0.	I
I 64	I	2000.	37.	260.	-4.	I
I 65	I	2000.	50.	260.	-7.	I
I 66	I	2000.	62.	230.	-14.	I
I 67	I	2000.	75.	200.	-18.	I
I 68	I	2000.	87.	200.	-19.	I
I 69	I	2000.	100.	210.	0.	I
I 70	I	2000.	113.	225.	0.	I
I 71	I	2000.	125.	215.	-1.	I
I 72	I	2000.	138.	205.	-1.	I
I 73	I	2000.	150.	210.	-2.	I
I 74	I	2000.	163.	230.	5.	I
I 75	I	2000.	175.	245.	0.	I
I 76	I	2000.	187.	240.	0.	I
I 77	I	2000.	200.	215.	4.	I
I 78	I	2000.	213.	230.	6.	I
I 79	I	2000.	225.	270.	4.	I
I 80	I	2000.	237.	270.	3.	I
I 81	I	2000.	250.	210.	-10.	I
I 82	I	2000.	263.	200.	-6.	I
I 83	I	2000.	275.	220.	0.	I
I 84	I	2000.	288.	220.	2.	I
I 85	I	2000.	300.	225.	5.	I
I 86	I	2000.	312.	230.	5.	I
I 87	I	2000.	325.	240.	8.	I
I 88	I	2000.	338.	240.	10.	I
I 89	I	2000.	350.	260.	14.	I
I 90	I	2000.	363.	280.	10.	I
I 91	I	2000.	375.	250.	0.	I
I 92	I	2000.	388.	240.	2.	I
I 93	I	2000.	400.	260.	2.	I
I 94	I	2000.	413.	260.	0.	I
I 95	I	2000.	425.	260.	0.	I
I 96	I	2000.	437.	240.	-8.	I
I 97	I	2000.	450.	215.	-6.	I
I 98	I	2000.	463.	215.	-4.	I
I 99	I	2000.	475.	225.	0.	I
I 100	I	2000.	488.	225.	0.	I

I L 2000E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	101	I	2000.	500.	220.	0.	I
I	102	I	2000.	513.	220.	0.	I
I	103	I	2000.	525.	220.	2.	I
I	104	I	2000.	538.	230.	4.	I
I	105	I	2000.	550.	240.	4.	I
I	106	I	2000.	562.	225.	3.	I
I	107	I	2000.	575.	230.	4.	I
I	108	I	2000.	588.	225.	4.	I
I	109	I	2000.	600.	225.	5.	I
I	110	I	2000.	613.	215.	8.	I
I	111	I	2000.	625.	220.	8.	I
I	112	I	2000.	638.	215.	10.	I
I	113	I	2000.	650.	225.	7.	I
I	114	I	2000.	663.	220.	10.	I
I	115	I	2000.	675.	230.	15.	I
I	116	I	2000.	687.	230.	16.	I
I	117	I	2000.	700.	260.	10.	I
I	118	I	2000.	713.	275.	12.	I
I	119	I	2000.	725.	275.	10.	I
I	120	I	2000.	736.	270.	12.	I
I	121	I	2000.	750.	290.	10.	I
I	MIN	I	2000.	-750.	200.	-14.	I
I	MAX	I	2000.	750.	310.	16.	I
I	AV.	I	2000.	-0.	232.	3.	I
I	SD.	I	0.	437.	23.	6.	I

DIP ANGLE DATA

I L 2100E						I	
I No.	I	EAST	NRTH	F5	DIP	I	
I	1	I	2100.	-100.	160.	-5.	I
I	2	I	2100.	-87.	160.	-4.	I
I	3	I	2100.	-75.	150.	-3.	I
I	4	I	2100.	-62.	160.	-3.	I
I	5	I	2100.	-50.	160.	-1.	I
I	6	I	2100.	-37.	160.	-1.	I
I	7	I	2100.	-25.	160.	-1.	I
I	8	I	2100.	-12.	160.	0.	I
I	9	I	2100.	0.	160.	2.	I
I	10	I	2100.	12.	160.	2.	I
I	11	I	2100.	25.	160.	6.	I
I	12	I	2100.	37.	170.	17.	I
I	13	I	2100.	50.	190.	20.	I
I	14	I	2100.	62.	260.	-2.	I
I	15	I	2100.	75.	170.	-10.	I
I	16	I	2100.	87.	210.	-6.	I
I	17	I	2100.	100.	160.	-16.	I
I	18	I	2100.	113.	160.	-10.	I
I	19	I	2100.	125.	150.	-3.	I
I	20	I	2100.	138.	140.	-1.	I
I	21	I	2100.	150.	140.	5.	I
I	22	I	2100.	163.	180.	4.	I
I	23	I	2100.	175.	150.	1.	I
I	24	I	2100.	187.	190.	1.	I
I	25	I	2100.	200.	180.	0.	I
I	26	I	2100.	213.	170.	2.	I
I	27	I	2100.	225.	160.	10.	I
I	28	I	2100.	238.	180.	0.	I
I	29	I	2100.	250.	165.	-3.	I
I	30	I	2100.	263.	165.	3.	I
I	31	I	2100.	275.	170.	3.	I
I	32	I	2100.	288.	160.	8.	I
I	33	I	2100.	300.	180.	7.	I
I	34	I	2100.	312.	180.	4.	I
I	35	I	2100.	325.	190.	11.	I
I	36	I	2100.	338.	160.	1.	I
I	37	I	2100.	350.	200.	-1.	I
I	38	I	2100.	363.	220.	-14.	I
I	39	I	2100.	375.	180.	-20.	I
I	40	I	2100.	388.	170.	-10.	I
I	41	I	2100.	400.	160.	-16.	I
I	42	I	2100.	413.	160.	-9.	I
I	43	I	2100.	425.	150.	-6.	I
I	44	I	2100.	437.	150.	-3.	I
I	45	I	2100.	450.	150.	-2.	I
I	46	I	2100.	463.	150.	-2.	I
I	47	I	2100.	475.	150.	2.	I
I	48	I	2100.	488.	170.	3.	I
I	49	I	2100.	500.	170.	4.	I
I	50	I	2100.	513.	170.	4.	I

I L 2100E							I
I No.	I	EAST	NRTH	FS	DIP	I	I
I 51	I	2100.	525.	190.	4.	I	I
I 52	I	2100.	538.	190.	4.	I	I
I 53	I	2100.	551.	190.	4.	I	I
I MIN	I	2100.	-100.	140.	-20.	I	I
I MAX	I	2100.	550.	260.	20.	I	I
I AV.	I	2100.	225.	170.	-1.	I	I
I SD.	I	0.	191.	20.	8.	I	I

DIP ANGLE DATA

I L 2200E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	2200.	-325.	220.	9.	I
H	2	I	2200.	-313.	225.	9.	I
H	3	I	2200.	-300.	225.	6.	I
H	4	I	2200.	-488.	230.	6.	I
H	5	I	2200.	-475.	230.	4.	I
H	6	I	2200.	-463.	230.	4.	I
H	7	I	2200.	-450.	230.	4.	I
H	8	I	2200.	-437.	230.	4.	I
H	9	I	2200.	-425.	230.	4.	I
H	10	I	2200.	-413.	230.	3.	I
H	11	I	2200.	-400.	220.	3.	I
H	12	I	2200.	-388.	225.	3.	I
H	13	I	2200.	-375.	215.	3.	I
H	14	I	2200.	-363.	215.	3.	I
H	15	I	2200.	-350.	220.	2.	I
H	16	I	2200.	-338.	210.	4.	I
H	17	I	2200.	-325.	210.	5.	I
H	18	I	2200.	-312.	215.	5.	I
H	19	I	2200.	-300.	220.	8.	I
H	20	I	2200.	-288.	230.	8.	I
H	21	I	2200.	-275.	230.	4.	I
H	22	I	2200.	-263.	245.	5.	I
H	23	I	2200.	-250.	250.	2.	I
H	24	I	2200.	-238.	230.	0.	I
H	25	I	2200.	-225.	230.	-4.	I
H	26	I	2200.	-213.	230.	-5.	I
H	27	I	2200.	-200.	220.	-6.	I
H	28	I	2200.	-187.	215.	-5.	I
H	29	I	2200.	-175.	210.	-6.	I
H	30	I	2200.	-163.	210.	-6.	I
H	31	I	2200.	-150.	210.	-5.	I
H	32	I	2200.	-138.	215.	-7.	I
H	33	I	2200.	-125.	210.	-6.	I
H	34	I	2200.	-113.	205.	-8.	I
H	35	I	2200.	-100.	200.	-12.	I
H	36	I	2200.	-87.	200.	-10.	I
H	37	I	2200.	-75.	200.	-10.	I
H	38	I	2200.	-62.	190.	-8.	I
H	39	I	2200.	-50.	190.	-7.	I
H	40	I	2200.	-37.	190.	-6.	I
H	41	I	2200.	-25.	190.	-6.	I
H	42	I	2200.	-12.	190.	-4.	I
H	43	I	2200.	0.	190.	-5.	I
H	44	I	2200.	12.	190.	-4.	I
H	45	I	2200.	25.	190.	-3.	I
H	46	I	2200.	37.	220.	-2.	I
H	47	I	2200.	50.	190.	0.	I
H	48	I	2200.	62.	220.	0.	I
H	49	I	2200.	75.	220.	-1.	I
H	50	I	2200.	87.	230.	-6.	I

I L 2200E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	51	I	2200.	100.	220.	-10.	I
I	52	I	2200.	113.	200.	-10.	I
I	53	I	2200.	125.	190.	-6.	I
I	54	I	2200.	138.	180.	-3.	I
I	55	I	2200.	150.	190.	-2.	I
I	56	I	2200.	163.	190.	2.	I
I	57	I	2200.	175.	190.	4.	I
I	58	I	2200.	187.	200.	2.	I
I	59	I	2200.	200.	210.	0.	I
I	60	I	2200.	213.	210.	0.	I
I	61	I	2200.	225.	190.	4.	I
I	62	I	2200.	238.	210.	5.	I
I	63	I	2200.	250.	220.	10.	I
I	64	I	2200.	263.	280.	5.	I
I	65	I	2200.	275.	220.	-5.	I
I	66	I	2200.	288.	280.	-2.	I
I	67	I	2200.	300.	210.	-12.	I
I	68	I	2200.	312.	190.	-10.	I
I	69	I	2200.	325.	220.	-4.	I
I	70	I	2200.	338.	220.	7.	I
I	71	I	2200.	350.	220.	10.	I
I	72	I	2200.	363.	230.	10.	I
I	73	I	2200.	375.	260.	4.	I
I	74	I	2200.	388.	220.	-14.	I
I	75	I	2200.	400.	190.	-10.	I
I	76	I	2200.	413.	190.	-4.	I
I	77	I	2200.	425.	190.	0.	I
I	78	I	2200.	437.	190.	2.	I
I	79	I	2200.	450.	190.	3.	I
I	80	I	2200.	463.	190.	3.	I
I	81	I	2200.	475.	190.	1.	I
I	82	I	2200.	488.	200.	4.	I
I	83	I	2200.	500.	200.	5.	I
I	84	I	2200.	513.	200.	6.	I
I	85	I	2200.	525.	190.	8.	I
I	86	I	2200.	538.	200.	8.	I
I	87	I	2200.	550.	210.	8.	I
I	88	I	2200.	562.	210.	6.	I
I	89	I	2200.	575.	210.	10.	I
I	90	I	2200.	588.	210.	8.	I
I	91	I	2200.	600.	210.	8.	I
I	92	I	2200.	613.	220.	8.	I
I	93	I	2200.	625.	230.	10.	I
I	94	I	2200.	638.	220.	10.	I
I	95	I	2200.	650.	220.	10.	I
I	96	I	2200.	663.	230.	12.	I
I	97	I	2200.	675.	240.	8.	I
I	98	I	2200.	687.	250.	8.	I
I	99	I	2200.	700.	260.	8.	I
I	100	I	2200.	713.	270.	6.	I

I L 2200E I						
I No.	I	EAST	NRTH	FS	DIP	I
I 101	I	2200.	725.	270.	6.	I
I 102	I	2200.	738.	250.	5.	I
I 103	I	2200.	750.	270.	4.	I
I 104	I	2200.	763.	260.	5.	I
I 105	I	2200.	775.	250.	5.	I
I 106	I	2200.	788.	260.	5.	I
I 107	I	2200.	800.	280.	1.	I
I MIN	I	2200.	-525.	180.	-14.	I
I MAX	I	2200.	800.	280.	12.	I
I AV.	I	2200.	138.	218.	1.	I
I SD.	I	0.	386.	23.	6.	I

DIP ANGLE DATA

I L 2300E						I	
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	2300.	-100.	210.	-10.	I
I	2	I	2300.	-87.	210.	-10.	I
I	3	I	2300.	-75.	210.	-10.	I
I	4	I	2300.	-62.	180.	-6.	I
I	5	I	2300.	-50.	170.	-8.	I
I	6	I	2300.	-37.	170.	-7.	I
I	7	I	2300.	-25.	180.	-4.	I
I	8	I	2300.	-12.	180.	-5.	I
I	9	I	2300.	0.	170.	-3.	I
I	10	I	2300.	12.	180.	-2.	I
I	11	I	2300.	25.	180.	3.	I
I	12	I	2300.	37.	170.	3.	I
I	13	I	2300.	50.	180.	4.	I
I	14	I	2300.	62.	180.	8.	I
I	15	I	2300.	75.	210.	14.	I
I	16	I	2300.	87.	230.	15.	I
I	17	I	2300.	100.	250.	22.	I
I	18	I	2300.	113.	230.	11.	I
I	19	I	2300.	125.	230.	13.	I
I	20	I	2300.	138.	220.	16.	I
I	21	I	2300.	150.	210.	14.	I
I	22	I	2300.	163.	210.	12.	I
I	23	I	2300.	175.	210.	12.	I
I	24	I	2300.	187.	210.	12.	I
I	25	I	2300.	200.	170.	12.	I
I	26	I	2300.	213.	210.	14.	I
I	27	I	2300.	225.	200.	12.	I
I	28	I	2300.	238.	220.	12.	I
I	29	I	2300.	250.	200.	12.	I
I	30	I	2300.	263.	200.	0.	I
I	31	I	2300.	275.	200.	0.	I
I	32	I	2300.	288.	170.	0.	I
I	33	I	2300.	300.	170.	0.	I
I	34	I	2300.	312.	170.	0.	I
I	35	I	2300.	325.	170.	0.	I
I	36	I	2300.	338.	170.	0.	I
I	37	I	2300.	350.	170.	3.	I
I	38	I	2300.	363.	200.	2.	I
I	39	I	2300.	375.	170.	2.	I
I	40	I	2300.	388.	200.	4.	I
I	41	I	2300.	400.	200.	6.	I
I	42	I	2300.	413.	200.	6.	I
I	43	I	2300.	425.	170.	6.	I
I	44	I	2300.	437.	210.	8.	I
I	45	I	2300.	450.	210.	10.	I
I	46	I	2300.	463.	210.	12.	I
I	47	I	2300.	475.	180.	8.	I
I	48	I	2300.	488.	210.	10.	I
I	49	I	2300.	500.	210.	10.	I
I	50	I	2300.	513.	210.	8.	I

I L 2300E						
I No.	I	EAST	NRTH	FS	DIP	I
I 51	I	2300.	525.	170.	8.	I
I 52	I	2300.	538.	210.	8.	I
I 53	I	2300.	550.	210.	8.	I
I MIN	I	2300.	-100.	170.	-1.	I
I MAX	I	2300.	550.	250.	15.	I
I AV.	I	2300.	225.	200.	1.	I
I SD.	I	0.	191.	16.	6.	I

DIP ANGLE DATA

I L 2400E						I	
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	2400.	-500.	440.	-2	I
I	2	I	2400.	-488.	440.	-4	I
I	3	I	2400.	-475.	420.	-2	I
I	4	I	2400.	-463.	410.	-4	I
I	5	I	2400.	-450.	440.	-4	I
I	6	I	2400.	-437.	440.	-2	I
I	7	I	2400.	-425.	480.	-2	I
I	8	I	2400.	-413.	490.	0	I
I	9	I	2400.	-400.	480.	2	I
I	10	I	2400.	-388.	480.	0	I
I	11	I	2400.	-375.	480.	-3	I
I	12	I	2400.	-363.	480.	-1	I
I	13	I	2400.	-350.	480.	0	I
I	14	I	2400.	-338.	480.	0	I
I	15	I	2400.	-325.	500.	0	I
I	16	I	2400.	-312.	480.	2	I
I	17	I	2400.	-300.	500.	6	I
I	18	I	2400.	-288.	500.	4	I
I	19	I	2400.	-275.	520.	6	I
I	20	I	2400.	-263.	560.	4	I
I	21	I	2400.	-250.	560.	4	I
I	22	I	2400.	-238.	560.	2	I
I	23	I	2400.	-225.	560.	2	I
I	24	I	2400.	-213.	500.	4	I
I	25	I	2400.	-200.	640.	2	I
I	26	I	2400.	-187.	640.	-2	I
I	27	I	2400.	-175.	610.	-6	I
I	28	I	2400.	-163.	600.	-8	I
I	29	I	2400.	-150.	560.	-10	I
I	30	I	2400.	-138.	520.	-12	I
I	31	I	2400.	-125.	410.	-14	I
I	32	I	2400.	-113.	440.	-14	I
I	33	I	2400.	-100.	410.	-16	I
I	34	I	2400.	-87.	410.	-12	I
I	35	I	2400.	-75.	270.	-10	I
I	36	I	2400.	-62.	240.	-6	I
I	37	I	2400.	-50.	240.	2	I
I	38	I	2400.	-37.	240.	2	I
I	39	I	2400.	-25.	240.	2	I
I	40	I	2400.	-12.	260.	4	I
I	41	I	2400.	0.	260.	8	I
I	42	I	2400.	12.	250.	9	I
I	43	I	2400.	25.	280.	10	I
I	44	I	2400.	37.	290.	10	I
I	45	I	2400.	50.	300.	10	I
I	46	I	2400.	62.	320.	8	I
I	47	I	2400.	75.	340.	2	I
I	48	I	2400.	87.	340.	-6	I
I	49	I	2400.	100.	290.	-10	I
I	50	I	2400.	113.	280.	-10	I

I L 2400E						I	
I No.	I	EAST	NRTH	FS	DIP	I	
I	51	I	2400.	125.	270.	-10.	I
I	52	I	2400.	138.	260.	-14.	I
I	53	I	2400.	150.	240.	-12.	I
I	54	I	2400.	163.	230.	-8.	I
I	55	I	2400.	175.	240.	-6.	I
I	56	I	2400.	187.	240.	-4.	I
I	57	I	2400.	200.	240.	-2.	I
I	58	I	2400.	213.	240.	-2.	I
I	59	I	2400.	225.	240.	-4.	I
I	60	I	2400.	238.	230.	-4.	I
I	61	I	2400.	250.	230.	-4.	I
I	62	I	2400.	263.	230.	-2.	I
I	63	I	2400.	275.	230.	-2.	I
I	64	I	2400.	288.	230.	0.	I
I	65	I	2400.	300.	230.	2.	I
I	66	I	2400.	312.	220.	4.	I
I	67	I	2400.	325.	220.	5.	I
I	68	I	2400.	338.	220.	6.	I
I	69	I	2400.	350.	230.	8.	I
I	70	I	2400.	363.	240.	10.	I
I	71	I	2400.	375.	250.	8.	I
I	72	I	2400.	388.	260.	6.	I
I	73	I	2400.	400.	270.	4.	I
I	74	I	2400.	413.	270.	0.	I
I	75	I	2400.	425.	260.	-2.	I
I	76	I	2400.	437.	250.	-6.	I
I	77	I	2400.	450.	250.	-6.	I
I	78	I	2400.	463.	220.	-6.	I
I	79	I	2400.	475.	230.	-4.	I
I	80	I	2400.	488.	230.	-2.	I
I	81	I	2400.	500.	220.	1.	I
I	82	I	2400.	513.	220.	4.	I
I	83	I	2400.	525.	240.	3.	I
I	84	I	2400.	538.	240.	4.	I
I	85	I	2400.	550.	240.	4.	I
I	86	I	2400.	562.	240.	5.	I
I	87	I	2400.	575.	250.	5.	I
I	88	I	2400.	588.	250.	5.	I
I	89	I	2400.	600.	240.	4.	I
I	90	I	2400.	613.	240.	7.	I
I	91	I	2400.	625.	240.	6.	I
I	92	I	2400.	638.	240.	4.	I
I	93	I	2400.	650.	240.	6.	I
I	94	I	2400.	663.	250.	6.	I
I	95	I	2400.	675.	240.	6.	I
I	96	I	2400.	687.	250.	4.	I
I	97	I	2400.	700.	250.	2.	I
I	98	I	2400.	713.	250.	2.	I
I	99	I	2400.	725.	250.	1.	I
I	100	I	2400.	738.	250.	-2.	I

I L 2400E						I
I No.	I	EAST	NRTH	FS	DIP	I
I 101	I	2400.	750.	260.	-4.	I
I 102	I	2400.	763.	260.	-4.	I
I 103	I	2400.	775.	250.	-4.	I
I 104	I	2400.	788.	250.	-4.	I
I 105	I	2400.	800.	250.	-2.	I
I 106	I	2400.	812.	250.	-1.	I
I 107	I	2400.	825.	260.	-2.	I
I 108	I	2400.	838.	240.	-2.	I
I 109	I	2400.	850.	240.	-4.	I
I 110	I	2400.	863.	270.	-4.	I
I 111	I	2400.	875.	260.	-8.	I
I 112	I	2400.	888.	270.	-8.	I
I 113	I	2400.	900.	230.	-10.	I
I 114	I	2400.	913.	260.	-10.	I
I 115	I	2400.	925.	240.	-15.	I
I 116	I	2400.	937.	250.	-15.	I
I 117	I	2400.	950.	230.	-16.	I
I 118	I	2400.	963.	220.	-12.	I
I 119	I	2400.	975.	220.	-10.	I
I 120	I	2400.	988.	220.	-10.	I
I 121	I	2400.	1000.	220.	-11.	I
I 122	I	2400.	1013.	210.	-10.	I
I 123	I	2400.	1025.	210.	-10.	I
I 124	I	2400.	1038.	210.	-10.	I
I 125	I	2400.	1050.	210.	-4.	I
I 126	I	2400.	1063.	210.	-4.	I
I 127	I	2400.	1075.	210.	-6.	I
I 128	I	2400.	1088.	210.	-6.	I
I 129	I	2400.	1100.	210.	-4.	I
I 130	I	2400.	1113.	190.	0.	I
I 131	I	2400.	1125.	210.	0.	I
I 132	I	2400.	1138.	210.	6.	I
I 133	I	2400.	1150.	210.	6.	I
I MIN	I	2400.	-500.	190.	-16.	I
I MAX	I	2400.	1150.	640.	10.	I
I AV.	I	2400.	325.	309.	-2.	I
I SD.	I	0.	480.	118.	7.	I

DIP ANGLE DATA

I - 2500E							
I	No.	I	EAST	NRTH	FS	DIP	I
I	1	I	2500.	0.	180.	7.	I
I	2	I	2500.	12.	180.	6.	I
I	3	I	2500.	25.	180.	4.	I
I	4	I	2500.	37.	180.	3.	I
I	5	I	2500.	50.	170.	2.	I
I	6	I	2500.	62.	170.	1.	I
I	7	I	2500.	75.	180.	0.	I
I	8	I	2500.	87.	170.	0.	I
I	9	I	2500.	100.	180.	-3.	I
I	10	I	2500.	113.	170.	-5.	I
I	11	I	2500.	125.	170.	-3.	I
I	12	I	2500.	138.	160.	-4.	I
I	13	I	2500.	150.	170.	-6.	I
I	14	I	2500.	163.	160.	-6.	I
I	15	I	2500.	175.	150.	-8.	I
I	16	I	2500.	187.	160.	-10.	I
I	17	I	2500.	200.	160.	-12.	I
I	18	I	2500.	213.	150.	-10.	I
I	19	I	2500.	225.	140.	-10.	I
I	20	I	2500.	238.	140.	-10.	I
I	21	I	2500.	250.	140.	-10.	I
I	22	I	2500.	263.	1.	-9.	I
I	23	I	2500.	275.	140.	-10.	I
I	24	I	2500.	288.	140.	-10.	I
I	25	I	2500.	300.	130.	-10.	I
I	26	I	2500.	312.	130.	-10.	I
I	27	I	2500.	325.	135.	0.	I
I	28	I	2500.	338.	140.	2.	I
I	29	I	2500.	350.	140.	3.	I
I	30	I	2500.	363.	140.	4.	I
I	31	I	2500.	375.	150.	5.	I
I	32	I	2500.	388.	140.	6.	I
I	33	I	2500.	400.	150.	4.	I
I	34	I	2500.	413.	150.	4.	I
I	35	I	2500.	425.	140.	2.	I
I	36	I	2500.	437.	130.	2.	I
I	37	I	2500.	450.	140.	2.	I
I	38	I	2500.	463.	140.	2.	I
I	39	I	2500.	475.	130.	2.	I
I	40	I	2500.	488.	130.	0.	I
I	41	I	2500.	500.	130.	2.	I
I	42	I	2500.	513.	140.	2.	I
I	43	I	2500.	525.	140.	2.	I
I	44	I	2500.	538.	130.	2.	I
I	45	I	2500.	550.	120.	2.	I
I	46	I	2500.	562.	120.	2.	I
I	47	I	2500.	575.	120.	6.	I
I	48	I	2500.	588.	120.	0.	I
I	49	I	2500.	600.	120.	6.	I
I	MIN	I	2500.	0.	120.	-12.	I
I	MAX	I	2500.	600.	180.	0.	I
I	AV.	I	2500.	300.	148.	-1.	I
I	SD.	I	0.	177.	19.	5.	I

DIP ANGLE DATA

I L 2600E	I	I No.	I	EAST	NRTH	FS	DIP	I
I	I	1	I	2600	-1700	200	I	I
I	I	2	I	2600	-1688	210	I	I
I	I	3	I	2600	-1675	210	I	I
I	I	4	I	2600	-1663	190	I	I
I	I	5	I	2600	-1650	180	I	I
I	I	6	I	2600	-1638	180	I	I
I	I	7	I	2600	-1625	180	I	I
I	I	8	I	2600	-1613	170	I	I
I	I	9	I	2600	-1600	170	I	I
I	I	10	I	2600	-1588	170	I	I
I	I	11	I	2600	-1575	170	I	I
I	I	12	I	2600	-1562	170	I	I
I	I	13	I	2600	-1550	180	I	I
I	I	14	I	2600	-1538	180	I	I
I	I	15	I	2600	-1525	180	I	I
I	I	16	I	2600	-1513	190	I	I
I	I	17	I	2600	-1500	210	I	I
I	I	18	I	2600	-1488	210	I	I
I	I	19	I	2600	-1475	180	I	I
I	I	20	I	2600	-1463	170	I	I
I	I	21	I	2600	-1450	170	I	I
I	I	22	I	2600	-1438	180	I	I
I	I	23	I	2600	-1425	180	I	I
I	I	24	I	2600	-1413	180	I	I
I	I	25	I	2600	-1400	180	I	I
I	I	26	I	2600	-1388	180	I	I
I	I	27	I	2600	-1375	180	I	I
I	I	28	I	2600	-1363	180	I	I
I	I	29	I	2600	-1350	180	I	I
I	I	30	I	2600	-1338	180	I	I
I	I	31	I	2600	-1325	170	I	I
I	I	32	I	2600	-1313	160	I	I
I	I	33	I	2600	-1300	160	I	I
I	I	34	I	2600	-1288	160	I	I
I	I	35	I	2600	-1275	160	I	I
I	I	36	I	2600	-1263	160	I	I
I	I	37	I	2600	-1250	160	I	I
I	I	38	I	2600	-1238	170	I	I
I	I	39	I	2600	-1225	180	I	I
I	I	40	I	2600	-1213	190	I	I
I	I	41	I	2600	-1200	200	I	I
I	I	42	I	2600	-1188	220	I	I
I	I	43	I	2600	-1175	180	I	I
I	I	44	I	2600	-1163	170	I	I
I	I	45	I	2600	-1150	160	I	I
I	I	46	I	2600	-1138	160	I	I
I	I	47	I	2600	-1125	170	I	I
I	I	48	I	2600	-1113	160	I	I
I	I	49	I	2600	-1100	160	I	I
I	I	50	I	2600	-1088	150	I	I

I L 2600E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	51	I	2600.	-1075.	150.	2	I
I	52	I	2600.	-1063.	150.	2	I
I	53	I	2600.	-1050.	140.	-3	I
I	54	I	2600.	-1037.	140.	-3	I
I	55	I	2600.	-1025.	160.	4	I
I	56	I	2600.	-1013.	150.	10	I
I	57	I	2600.	-1000.	180.	10	I
I	58	I	2600.	-988.	180.	-2	I
I	59	I	2600.	-975.	170.	0	I
I	60	I	2600.	-963.	170.	4	I
I	61	I	2600.	-950.	170.	4	I
I	62	I	2600.	-937.	180.	8	I
I	63	I	2600.	-925.	190.	10	I
I	64	I	2600.	-913.	200.	8	I
I	65	I	2600.	-900.	200.	5	I
I	66	I	2600.	-888.	190.	4	I
I	67	I	2600.	-875.	190.	3	I
I	68	I	2600.	-863.	190.	1	I
I	69	I	2600.	-850.	190.	-1	I
I	70	I	2600.	-838.	190.	0	I
I	71	I	2600.	-825.	190.	0	I
I	72	I	2600.	-812.	190.	0	I
I	73	I	2600.	-800.	190.	-2	I
I	74	I	2600.	-788.	180.	-3	I
I	75	I	2600.	-775.	180.	-4	I
I	76	I	2600.	-763.	180.	-2	I
I	77	I	2600.	-750.	170.	-3	I
I	78	I	2600.	-738.	170.	-3	I
I	79	I	2600.	-725.	170.	-2	I
I	81	I	2600.	-700.	170.	6	I
I	82	I	2600.	-687.	170.	2	I
I	83	I	2600.	-675.	150.	2	I
I	84	I	2600.	-663.	170.	0	I
I	85	I	2600.	-650.	170.	-1	I
I	86	I	2600.	-638.	150.	-4	I
I	87	I	2600.	-625.	170.	-4	I
I	88	I	2600.	-613.	150.	-5	I
I	89	I	2600.	-600.	160.	-4	I
I	90	I	2600.	-588.	160.	-3	I
I	91	I	2600.	-575.	160.	-2	I
I	92	I	2600.	-563.	160.	0	I
I	93	I	2600.	-550.	160.	2	I
I	94	I	2600.	-538.	160.	-1	I
I	95	I	2600.	-525.	150.	-1	I
I	96	I	2600.	-513.	150.	0	I
I	97	I	2600.	-500.	150.	2	I
I	98	I	2600.	-488.	150.	3	I
I	99	I	2600.	-475.	150.	4	I
I	100	I	2600.	-463.	150.	6	I

I L 2600E						I
I No.	I	EAST	NRTH	FS	DIP	I
I 101	I	2600.	-450.	150.	4.	I
I 102	I	2600.	-437.	270.	6.	I
I 103	I	2600.	-425.	280.	6.	I
I 104	I	2600.	-413.	280.	8.	I
I 105	I	2600.	-400.	290.	8.	I
I 106	I	2600.	-388.	280.	10.	I
I 107	I	2600.	-375.	270.	10.	I
I 108	I	2600.	-363.	280.	-2.	I
I 109	I	2600.	-350.	270.	-2.	I
I 110	I	2600.	-338.	250.	-2.	I
I 111	I	2600.	-325.	250.	-2.	I
I 112	I	2600.	-312.	250.	1.	I
I 113	I	2600.	-300.	240.	2.	I
I 114	I	2600.	-288.	250.	4.	I
I 115	I	2600.	-275.	260.	6.	I
I 116	I	2600.	-263.	280.	8.	I
I 117	I	2600.	-250.	270.	10.	I
I 118	I	2600.	-238.	270.	7.	I
I 119	I	2600.	-225.	250.	8.	I
I 120	I	2600.	-213.	280.	8.	I
I 121	I	2600.	-200.	270.	6.	I
I 122	I	2600.	-187.	270.	4.	I
I 123	I	2600.	-175.	270.	4.	I
I 124	I	2600.	-163.	240.	4.	I
I 125	I	2600.	-150.	240.	10.	I
I 126	I	2600.	-138.	270.	14.	I
I 127	I	2600.	-125.	280.	8.	I
I 128	I	2600.	-113.	280.	5.	I
I 129	I	2600.	-100.	270.	8.	I
I 130	I	2600.	-87.	250.	-2.	I
I 131	I	2600.	-75.	230.	-2.	I
I 132	I	2600.	-63.	240.	2.	I
I 133	I	2600.	-50.	230.	2.	I
I 134	I	2600.	-37.	230.	4.	I
I 135	I	2600.	-25.	240.	4.	I
I 136	I	2600.	-12.	250.	4.	I
I 137	I	2600.	0.	260.	4.	I
I 138	I	2600.	12.	270.	6.	I
I 139	I	2600.	25.	270.	4.	I
I 140	I	2600.	37.	280.	4.	I
I 141	I	2600.	50.	290.	4.	I
I 142	I	2600.	62.	290.	4.	I
I 143	I	2600.	75.	280.	2.	I
I 144	I	2600.	87.	320.	4.	I
I 145	I	2600.	100.	360.	2.	I
I 146	I	2600.	113.	380.	0.	I
I 147	I	2600.	125.	380.	-2.	I
I 148	I	2600.	138.	400.	-4.	I
I 149	I	2600.	150.	410.	-4.	I
I 150	I	2600.	163.	400.	-6.	I

I L 2600E						I
I No.	I	EAST	NRTH	FS	DIP	I
I 151	I	2600.	175.	410.	-4.	I
I 152	I	2600.	187.	380.	-5.	I
I 153	I	2600.	200.	380.	-5.	I
I 154	I	2600.	213.	360.	-5.	I
I 155	I	2600.	225.	360.	-4.	I
I 156	I	2600.	238.	380.	-4.	I
I 157	I	2600.	250.	380.	-4.	I
I 158	I	2600.	263.	380.	-4.	I
I 159	I	2600.	275.	380.	-2.	I
I 160	I	2600.	288.	380.	-2.	I
I 161	I	2600.	300.	360.	-6.	I
I 162	I	2600.	312.	360.	-2.	I
I 163	I	2600.	325.	320.	-2.	I
I 164	I	2600.	338.	280.	-2.	I
I 165	I	2600.	350.	280.	-2.	I
I 166	I	2600.	363.	270.	0.	I
I 167	I	2600.	375.	270.	1.	I
I 168	I	2600.	388.	270.	1.	I
I 169	I	2600.	400.	270.	2.	I
I 170	I	2600.	413.	270.	4.	I
I 171	I	2600.	425.	270.	4.	I
I 172	I	2600.	437.	270.	5.	I
I 173	I	2600.	450.	280.	4.	I
I 174	I	2600.	463.	280.	2.	I
I 175	I	2600.	475.	270.	2.	I
I 176	I	2600.	488.	270.	0.	I
I 177	I	2600.	500.	270.	0.	I
I 178	I	2600.	513.	270.	2.	I
I 179	I	2600.	525.	260.	2.	I
I 180	I	2600.	538.	260.	2.	I
I 181	I	2600.	550.	250.	0.	I
I 182	I	2600.	562.	250.	0.	I
I 183	I	2600.	575.	240.	0.	I
I 184	I	2600.	588.	240.	0.	I
I 185	I	2600.	600.	240.	1.	I
I 186	I	2600.	613.	240.	2.	I
I 187	I	2600.	625.	250.	4.	I
I 188	I	2600.	638.	250.	4.	I
I 189	I	2600.	650.	240.	4.	I
I 190	I	2600.	663.	250.	0.	I
I 191	I	2600.	675.	250.	0.	I
I 192	I	2600.	687.	270.	-2.	I
I 193	I	2600.	700.	270.	-1.	I
I 194	I	2600.	713.	250.	-2.	I
I 195	I	2600.	725.	240.	-4.	I
I 196	I	2600.	738.	240.	-3.	I
I 197	I	2600.	750.	270.	-5.	I
I 198	I	2600.	763.	230.	-5.	I
I 199	I	2600.	775.	220.	-4.	I
I 200	I	2600.	788.	220.	-2.	I

I L 2600E							
I	No.	I	EAST	NRTH	FS	DIP	I
I	201	I	2600.	800.	230.	-2	I
I	202	I	2600.	812.	220.	-2	I
I	203	I	2600.	823.	220.	-4	I
I	204	I	2600.	838.	220.	-5	I
I	205	I	2600.	850.	230.	-6	I
I	206	I	2600.	863.	230.	-10	I
I	207	I	2600.	875.	230.	-10	I
I	208	I	2600.	888.	220.	-10	I
I	209	I	2600.	900.	210.	-12	I
I	210	I	2600.	913.	210.	-12	I
I	211	I	2600.	925.	190.	-12	I
I	212	I	2600.	937.	190.	-10	I
I	213	I	2600.	950.	200.	-8	I
I	214	I	2600.	963.	190.	-14	I
I	215	I	2600.	975.	190.	-12	I
I	216	I	2600.	988.	180.	-9	I
I	217	I	2600.	1000.	180.	-12	I
I	218	I	2600.	1013.	160.	-14	I
I	219	I	2600.	1025.	160.	-12	I
I	220	I	2600.	1038.	160.	-4	I
I	221	I	2600.	1050.	160.	-2	I
I	222	I	2600.	1063.	170.	2	I
I	223	I	2600.	1075.	170.	2	I
I	224	I	2600.	1088.	160.	-2	I
I	225	I	2600.	1100.	170.	-3	I
I	MIN	I	2600.	-1700.	140.	-16	I
I	MAX	I	2600.	1100.	410.	14	I
I	V.	I	2600.	-300.	224.	3	I
I	SD.	I	0.	812.	64.	5	I

DIP ANGLE DATA

I L 2800E						I	
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	2800.	-800.	330.	5.	I
I	2	I	2800.	-788.	320.	4.	I
I	3	I	2800.	-775.	320.	5.	I
I	4	I	2800.	-763.	320.	5.	I
I	5	I	2800.	-750.	310.	5.	I
I	6	I	2800.	-738.	310.	4.	I
I	7	I	2800.	-725.	310.	6.	I
I	8	I	2800.	-713.	300.	7.	I
I	9	I	2800.	-700.	320.	7.	I
I	10	I	2800.	-687.	330.	6.	I
I	11	I	2800.	-675.	320.	2.	I
I	12	I	2800.	-663.	310.	0.	I
I	13	I	2800.	-650.	290.	0.	I
I	14	I	2800.	-638.	290.	2.	I
I	15	I	2800.	-625.	280.	3.	I
I	16	I	2800.	-613.	260.	5.	I
I	17	I	2800.	-600.	250.	10.	I
I	18	I	2800.	-588.	270.	12.	I
I	19	I	2800.	-575.	250.	12.	I
I	20	I	2800.	-562.	290.	8.	I
I	21	I	2800.	-550.	280.	8.	I
I	22	I	2800.	-538.	290.	10.	I
I	23	I	2800.	-525.	270.	7.	I
I	24	I	2800.	-513.	290.	6.	I
I	25	I	2800.	-500.	290.	8.	I
I	26	I	2800.	-488.	290.	8.	I
I	27	I	2800.	-475.	290.	8.	I
I	28	I	2800.	-463.	280.	7.	I
I	29	I	2800.	-450.	300.	7.	I
I	30	I	2800.	-437.	300.	8.	I
I	31	I	2800.	-425.	290.	8.	I
I	32	I	2800.	-413.	300.	10.	I
I	33	I	2800.	-400.	290.	10.	I
I	34	I	2800.	-388.	290.	7.	I
I	35	I	2800.	-375.	290.	6.	I
I	36	I	2800.	-363.	270.	5.	I
I	37	I	2800.	-350.	290.	5.	I
I	38	I	2800.	-338.	290.	5.	I
I	39	I	2800.	-325.	280.	4.	I
I	40	I	2800.	-312.	280.	4.	I
I	41	I	2800.	-300.	290.	3.	I
I	42	I	2800.	-288.	280.	2.	I
I	43	I	2800.	-275.	280.	0.	I
I	44	I	2800.	-263.	290.	0.	I
I	45	I	2800.	-250.	270.	0.	I
I	46	I	2800.	-238.	220.	0.	I
I	47	I	2800.	-225.	210.	10.	I
I	48	I	2800.	-213.	230.	12.	I
I	49	I	2800.	-200.	260.	14.	I
I	50	I	2800.	-187.	290.	14.	I

I L 2800E

I	No.	I	EAST	NRTH	FS	DIP	I
I	51	I	2800.	-175.	310.	6.	I
I	52	I	2800.	-163.	310.	-4.	I
I	53	I	2800.	-150.	270.	-5.	I
I	54	I	2800.	-138.	270.	-7.	I
I	55	I	2800.	-125.	240.	-12.	I
I	56	I	2800.	-113.	200.	-13.	I
I	57	I	2800.	-100.	210.	-10.	I
I	58	I	2800.	-87.	210.	-2.	I
I	59	I	2800.	-75.	220.	-2.	I
I	60	I	2800.	-62.	220.	-3.	I
I	61	I	2800.	-50.	230.	0.	I
I	62	I	2800.	-37.	230.	-2.	I
I	63	I	2800.	-25.	220.	0.	I
I	64	I	2800.	-12.	210.	2.	I
I	65	I	2800.	0.	220.	3.	I
I	66	I	2800.	12.	200.	5.	I
I	67	I	2800.	25.	200.	6.	I
I	68	I	2800.	37.	210.	12.	I
I	69	I	2800.	50.	220.	14.	I
I	70	I	2800.	62.	220.	15.	I
I	71	I	2800.	75.	230.	14.	I
I	72	I	2800.	87.	230.	16.	I
I	73	I	2800.	100.	230.	15.	I
I	74	I	2800.	113.	240.	15.	I
I	75	I	2800.	125.	250.	14.	I
I	76	I	2800.	138.	240.	10.	I
I	77	I	2800.	150.	250.	8.	I
I	78	I	2800.	163.	250.	7.	I
I	79	I	2800.	175.	240.	6.	I
I	80	I	2800.	187.	250.	6.	I
I	81	I	2800.	200.	250.	6.	I
I	82	I	2800.	213.	260.	7.	I
I	83	I	2800.	225.	260.	6.	I
I	84	I	2800.	238.	260.	5.	I
I	85	I	2800.	250.	260.	3.	I
I	86	I	2800.	263.	240.	1.	I
I	87	I	2800.	275.	250.	2.	I
I	88	I	2800.	288.	250.	0.	I
I	89	I	2800.	300.	230.	2.	I
I	90	I	2800.	312.	280.	2.	I
I	91	I	2800.	325.	300.	4.	I
I	92	I	2800.	338.	410.	0.	I
I	93	I	2800.	350.	420.	-2.	I
I	94	I	2800.	363.	500.	-3.	I
I	95	I	2800.	375.	510.	-6.	I
I	96	I	2800.	388.	510.	-6.	I
I	97	I	2800.	400.	500.	-8.	I
I	98	I	2800.	413.	480.	-8.	I
I	99	I	2800.	425.	480.	-6.	I
I	100	I	2800.	437.	480.	-4.	I

I L 2800E						I
I No.	I	EAST	NRTH	FS	DIP	I
I 101	I	2800.	450.	460.	-3.	I
I 102	I	2800.	463.	480.	-2.	I
I 103	I	2800.	475.	450.	-4.	I
I 104	I	2800.	488.	460.	-4.	I
I 105	I	2800.	500.	470.	-6.	I
I 106	I	2800.	513.	460.	-3.	I
I 107	I	2800.	525.	460.	-3.	I
I 108	I	2800.	538.	440.	-6.	I
I 109	I	2800.	550.	420.	-6.	I
I 110	I	2800.	562.	420.	-5.	I
I 111	I	2800.	575.	420.	-3.	I
I 112	I	2800.	588.	420.	-2.	I
I 113	I	2800.	600.	420.	-2.	I
I 114	I	2800.	613.	420.	-4.	I
I 115	I	2800.	625.	420.	0.	I
I 116	I	2800.	638.	420.	0.	I
I 117	I	2800.	650.	410.	-2.	I
I 118	I	2800.	663.	400.	-2.	I
I 119	I	2800.	675.	400.	0.	I
I 120	I	2800.	687.	400.	0.	I
I 121	I	2800.	700.	400.	-2.	I
I 122	I	2800.	713.	400.	-2.	I
I 123	I	2800.	725.	410.	-2.	I
I 124	I	2800.	738.	380.	0.	I
I 125	I	2800.	750.	400.	0.	I
I 126	I	2800.	763.	400.	0.	I
I 127	I	2800.	775.	400.	0.	I
I 128	I	2800.	788.	380.	-2.	I
I 129	I	2800.	800.	400.	-3.	I
I 130	I	2800.	812.	420.	-2.	I
I 131	I	2800.	825.	420.	-3.	I
I 132	I	2800.	838.	420.	-4.	I
I 133	I	2800.	850.	440.	-6.	I
I 134	I	2800.	863.	460.	-6.	I
I 135	I	2800.	875.	440.	-6.	I
I 136	I	2800.	888.	480.	-8.	I
I 137	I	2800.	900.	460.	-12.	I
I 138	I	2800.	913.	440.	-14.	I
I 139	I	2800.	925.	440.	-14.	I
I 140	I	2800.	937.	420.	-12.	I
I 141	I	2800.	950.	420.	-12.	I
I 142	I	2800.	963.	400.	-10.	I
I 143	I	2800.	975.	390.	-14.	I
I 144	I	2800.	988.	390.	-10.	I
I 145	I	2800.	1000.	380.	-10.	I
I 146	I	2800.	1013.	360.	-10.	I
I 147	I	2800.	1025.	360.	-8.	I
I 148	I	2800.	1038.	360.	-7.	I
I 149	I	2800.	1050.	360.	-8.	I
I MIN	I	2800.	-800.	200.	-14.	I
I MAX	I	2800.	1050.	510.	16.	I
I AV.	I	2800.	125.	329.	1.	I
I SD.	I	0.	538.	86.	7.	I

DIP ANGLE DATA

I L 3000E						I	
I No.	I	EAST	NRTH	FS	DIP	I	
I	1	I	3000.	-600.	180.	2.	I
I	2	I	3000.	-588.	190.	8.	I
I	3	I	3000.	-575.	180.	18.	I
I	4	I	3000.	-562.	200.	16.	I
I	5	I	3000.	-550.	230.	14.	I
I	6	I	3000.	-538.	230.	12.	I
I	7	I	3000.	-525.	230.	9.	I
I	8	I	3000.	-513.	230.	10.	I
I	9	I	3000.	-500.	230.	12.	I
I	10	I	3000.	-488.	230.	12.	I
I	11	I	3000.	-475.	230.	15.	I
I	12	I	3000.	-463.	220.	16.	I
I	13	I	3000.	-450.	240.	15.	I
I	14	I	3000.	-437.	240.	14.	I
I	15	I	3000.	-425.	220.	12.	I
I	16	I	3000.	-413.	230.	10.	I
I	17	I	3000.	-400.	240.	10.	I
I	18	I	3000.	-388.	250.	10.	I
I	19	I	3000.	-375.	250.	7.	I
I	20	I	3000.	-363.	250.	5.	I
I	21	I	3000.	-350.	250.	3.	I
I	22	I	3000.	-338.	230.	3.	I
I	23	I	3000.	-325.	250.	2.	I
I	24	I	3000.	-312.	250.	2.	I
I	25	I	3000.	-300.	240.	-1.	I
I	26	I	3000.	-288.	220.	0.	I
I	27	I	3000.	-275.	230.	0.	I
I	28	I	3000.	-263.	230.	-1.	I
I	29	I	3000.	-250.	230.	0.	I
I	30	I	3000.	-238.	220.	3.	I
I	31	I	3000.	-225.	230.	6.	I
I	32	I	3000.	-213.	240.	8.	I
I	33	I	3000.	-200.	240.	10.	I
I	34	I	3000.	-187.	260.	8.	I
I	35	I	3000.	-175.	260.	6.	I
I	36	I	3000.	-163.	260.	2.	I
I	37	I	3000.	-150.	260.	-2.	I
I	38	I	3000.	-138.	260.	-4.	I
I	39	I	3000.	-125.	230.	-8.	I
I	40	I	3000.	-113.	250.	-8.	I
I	41	I	3000.	-100.	210.	-10.	I
I	42	I	3000.	-87.	210.	-8.	I
I	43	I	3000.	-75.	220.	-6.	I
I	44	I	3000.	-62.	220.	-3.	I
I	45	I	3000.	-50.	220.	-3.	I
I	46	I	3000.	-37.	220.	-1.	I
I	47	I	3000.	-25.	230.	-1.	I
I	48	I	3000.	-12.	230.	-2.	I
I	49	I	3000.	0.	240.	-4.	I
I	50	I	3000.	12.	240.	-6.	I

I L 3000E						I	
I	No.	I	EAST	NRTH	FS	DIP	I
I	51	I	3000.	25.	230.	-5.	I
I	52	I	3000.	37.	240.	-5.	I
I	53	I	3000.	50.	250.	-5.	I
I	54	I	3000.	62.	250.	-4.	I
I	55	I	3000.	75.	240.	-2.	I
I	56	I	3000.	87.	230.	-2.	I
I	57	I	3000.	100.	260.	-2.	I
I	58	I	3000.	113.	260.	-2.	I
I	59	I	3000.	125.	250.	-2.	I
I	60	I	3000.	138.	260.	4.	I
I	61	I	3000.	150.	250.	4.	I
I	62	I	3000.	163.	260.	6.	I
I	63	I	3000.	175.	250.	5.	I
I	64	I	3000.	187.	260.	5.	I
I	65	I	3000.	200.	250.	4.	I
I	66	I	3000.	213.	230.	4.	I
I	67	I	3000.	225.	230.	2.	I
I	68	I	3000.	238.	230.	2.	I
I	69	I	3000.	250.	240.	3.	I
I	70	I	3000.	263.	240.	4.	I
I	71	I	3000.	275.	250.	2.	I
I	72	I	3000.	288.	250.	2.	I
I	73	I	3000.	300.	250.	3.	I
I	74	I	3000.	312.	250.	3.	I
I	75	I	3000.	325.	270.	3.	I
I	76	I	3000.	338.	280.	1.	I
I	77	I	3000.	350.	290.	-2.	I
I	78	I	3000.	363.	280.	-4.	I
I	79	I	3000.	375.	280.	-7.	I
I	80	I	3000.	388.	260.	-6.	I
I	81	I	3000.	400.	260.	-8.	I
I	82	I	3000.	413.	260.	-8.	I
I	83	I	3000.	425.	260.	-9.	I
I	84	I	3000.	437.	240.	-10.	I
I	85	I	3000.	450.	250.	-10.	I
I	86	I	3000.	463.	250.	-10.	I
I	87	I	3000.	475.	250.	-10.	I
I	88	I	3000.	488.	250.	-10.	I
I	89	I	3000.	500.	240.	-12.	I
I	90	I	3000.	513.	230.	-10.	I
I	91	I	3000.	525.	240.	-12.	I
I	92	I	3000.	538.	230.	-10.	I
I	93	I	3000.	550.	230.	-12.	I
I	94	I	3000.	562.	240.	-9.	I
I	95	I	3000.	575.	240.	-10.	I
I	96	I	3000.	588.	240.	-10.	I
I	97	I	3000.	600.	240.	-10.	I
I	98	I	3000.	613.	240.	-6.	I
I	99	I	3000.	625.	250.	-6.	I
I	100	I	3000.	638.	250.	-5.	I

I L 3000E							I
I	No.	I	EAST	NRTH	FS	DIP	I
I	101	I	3000.	650.	250.	-5.	I
I	102	I	3000.	663.	240.	-5.	I
I	103	I	3000.	675.	250.	-5.	I
I	104	I	3000.	687.	260.	-5.	I
I	105	I	3000.	700.	250.	-4.	I
I	106	I	3000.	713.	260.	-4.	I
I	107	I	3000.	725.	260.	-4.	I
I	108	I	3000.	738.	260.	-4.	I
I	109	I	3000.	750.	270.	-3.	I
I	110	I	3000.	763.	290.	-5.	I
I	111	I	3000.	775.	280.	-5.	I
I	112	I	3000.	788.	300.	-6.	I
I	113	I	3000.	800.	280.	-6.	I
I	114	I	3000.	812.	300.	-6.	I
I	115	I	3000.	825.	300.	-8.	I
I	116	I	3000.	838.	300.	-4.	I
I	117	I	3000.	850.	360.	-6.	I
I	118	I	3000.	863.	380.	-4.	I
I	119	I	3000.	875.	360.	-5.	I
I	120	I	3000.	888.	400.	-10.	I
I	121	I	3000.	900.	380.	-12.	I
I	122	I	3000.	913.	360.	-14.	I
I	123	I	3000.	925.	340.	-11.	I
I	124	I	3000.	937.	340.	-8.	I
I	125	I	3000.	950.	360.	-6.	I
I	126	I	3000.	963.	360.	-4.	I
I	127	I	3000.	975.	420.	-6.	I
I	128	I	3000.	988.	420.	-6.	I
I	129	I	3000.	1000.	400.	-2.	I
I	130	I	3000.	1013.	400.	-2.	I
I	131	I	3000.	1025.	380.	-4.	I
I	132	I	3000.	1038.	400.	-3.	I
I	133	I	3000.	1050.	380.	-2.	I
I	134	I	3000.	1063.	400.	-2.	I
I	135	I	3000.	1075.	380.	0.	I
I	136	I	3000.	1088.	380.	-4.	I
I	137	I	3000.	1100.	360.	-2.	I
I	MIN	I	3000.	-600.	180.	-14.	I
I	MAX	I	3000.	1100.	420.	18.	I
I	AV.	I	3000.	250.	266.	-1.	I
I	SD.	I	0.	494.	53.	7.	I

APPENDIX 8.

A Report on the Geophysical Surveys over the Stonehenge Grid,
S.P.L. 129, by Dr. J.R. Bishop (Mitre Geophysics Report 83/04).



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A REPORT ON THE GEOPHYSICAL SURVEYS OVER
THE STONEHENGE GRID, S.P.L. 129.

for

Gold Fields Exploration Pty Ltd

by

Dr. J.R. Bishop

GF/MG83/04
AUGUST, 1983.



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* Attached.



SUMMARY

The Stonehenge area, at the eastern end of S.P.L. 129, is being explored for a primary tin deposit. The presence of carbonates, several steeply dipping faults, the nearby tin-bearing Heemskirk Granite and the area's proximity to Queen Hill, established the potential of the area. Specifically, exploration was centered on a large, broad aeromagnetic high.

A number of conductive zones were recorded on the northern flank of this magnetic anomaly by a Dighem survey. These were located on the ground with VLF-EM, which also defined some weaker zones and cross-cutting faults not detected or not resolved by the Dighem.

The conductive nature of the area was confirmed by a gradient array IP survey: most of the grid north of the baseline was less than 100ohm-m and a significant proportion less than 25ohm-m, with some areas too conductive to measure chargeabilities. This low resistivity is apparently caused by weathering of carbonate-bearing rocks; ie, a large area of prospective host rocks has been outlined.

A long zone of chargeability highs was outlined close to the baseline, sub-parallelizing VLF anomalies. These 'baseline' anomalies also mark the southern boundary of the low resistivities and apparently indicate a change from argillaceous sediments in the north to arenaceous sediments in the south. In places this boundary is also the Cambrian/preCambrian contact. The VLF responses suggest that the contact is probably faulted, while the chargeability responses are due in part to graphitic shales, but may also be due to mineralisation along the fault. The (few) other chargeability responses recorded elsewhere on the grid are probably due to graphitic shales and/or disseminated pyrite. These conclusions are largely based on the log of the one hole drilled on the grid.

Geophysically, DDH TH12 was sited to test the main magnetic anomaly and the baseline chargeability and VLF zones. At 320m below the collar, the source of the magnetic anomaly had not been intersected. The chargeability response was due to black shales and the VLF, to the shales and their faulted contact.

The ground magnetic survey confirmed the aeromagnetic anomaly as essentially a single, broad response. Interpretation indicates a large body (2000m long by 1200m wide) buried to 400m. Such a body is unlikely to be due to mineralisation and geophysically, a basic intrusive is a likely source (though a large halo of hornfels is also a possibility). The fit of the model is not perfect and some shallower magnetic material is likely near its southern edge (eg, near 2000E/600-500S). Some 'noise' on the ground data indicates the presence of other, probably minor, shallow sources. A comprehensive interpretation requires further data, particularly to the north.



The magnetic survey also defined a shallow anomaly (of 400 gammas) centered on 1000E near the baseline, to the west of the 'main' response (centered near 2000E). Its interpretation as a single body indicates a significant volume of material, well in excess of one million tonnes; but (cassiterite-) pyrrhotite is an unlikely source, since there are no coincident IP and resistivity anomalies. (The baseline chargeability zone crosses the northern flank of the anomaly.) A more likely cause is a volcanic sequence, either as a single body at approximately 50m or as a number of shallower sources. Despite these unpromising arguments further investigation is suggested. A dipole-dipole IP or EM survey is recommended, but if drilling is preferred then the target should be 150m below 1000E/20S, drilled to the south.

A more promising area (for sulphide mineralisation) lies further to the east, where two Dighem/VLF responses are associated with some bedrock geochemistry anomalies but again, a pyrrhotite source is unlikely since there is no associated magnetic anomaly. The area lies between lines 1700E and 1900E near 400N. A drill hole angled at 45° to (grid) south, collared from 1800E/575N (Grubb's tram) and extending for at least 350m would test the area but further confirmation of the target is recommended before drilling.

Although the geophysics indicates that there is no (sizeable) cassiterite-pyrrhotite body on the grid, there remains the possibility of a pyrite-hosted tin deposit (eg, as at Queen Hill). The electrical surveys carried out so far have not explored to any depth and consideration should be given to a transient EM survey of the area, if such a body is an attractive target.



INTRODUCTION

The Stonehenge grid, at the eastern end of S.P.L. 129, covers several old mines and prospects of the Zeehan silver-lead-zinc mining field which was worked around the turn of the century. (The grid is named after one of these prospects.) However the main target is for a primary tin deposit.

This target is conceptually based: the tin bearing Heemskirk Granite outcrops about 5kms to the west; the area is known to contain suitable (carbonate-rich) host rocks and is dissected by several steeply dipping faults. Further, a potentially economic deposit (Queen Hill-Severn) has been outlined in an apparently similar geological environment, two kilometres to the north.

No specific geophysical drill hole target has been defined by the exploration so far and any orebody is likely to be deeply buried. This report integrates and evaluates the various geophysical surveys with particular regard to the model; that is, how the results may assist or detract from the possibility of a replacement cassiterite-stannite-pyrrhotite/pyrite deposit at Stonehenge and where such a body might occur.

EXPLORATION TARGET AND GEOLOGIC SETTING

Despite the intense (but short-lived) mining activity in the area and the subsequent history of exploration, the detailed geology and structure is poorly known since there is little outcrop and the structure is complex. The underlying rocks at Stonehenge are mostly quartzites and shales of the pre-Cambrian Donah sequence, although the south-western corner consists of Cambrian sediments. Volcanics occur in both sequences and, in particular, spilites have been intersected within the (?) Pre-Cambrian by DDH TH12. Of geophysical significance, are several occurrences of black (?graphitic) shales.

The project geologist (P. Komysan) has interpreted a WNW-ESE striking fault across the grid which separates (on the northern side) a NW-SE trending anticline of fine grained sediments (including carbonates) from (on the southern side) a similarly trending syncline of sandstones and siltstones. Both folds are shown as having a dome structure (Figure 3). Several other faults have been interpreted crossing the grid.

The EM and IP surveys have shown the rocks on the northern side of the 'main' fault to be quite conductive; this is apparently due to both graphitic shales and deep (at least 10m) weathering of the carbonate sequences. Various magnetic surveys (ground and airborne) have defined a broad, deep-seated anomaly below the grid. DDH TH12, sited above this anomaly (with one of its goals being to find the source) intersected no magnetic rocks to a depth of about 320m below the collar level.



The likely composition of the target mineralisation is cassiterite (with some stannite) in association with massive pyrrhotite, replacing carbonate rocks or infilling a fracture or fault structure (eg, both types occur at the Renison mine, some 15kms to the north-east); however, an association with pyrite rather than pyrrhotite is a possibility. A pyrrhotite-hosted body would be conductive and, almost certainly, magnetic. A pyrite-hosted body would be non-magnetic and, almost certainly, much less conductive than the former type. An economic cassiterite-pyrrhotite deposit could be less than one million tonnes which, if buried below say 150m, would present a very small and difficult target. The presence of nearby conductive overburden and black shales and of a deep seated magnetic anomaly would all act to obscure any geophysical response from such a body. A cassiterite-pyrite deposit would be even harder to detect. Some maximum responses for two idealised bodies are given below.

The densities of Renison's more massive ores are of the order of 4gm/c.c. (=4tonnes/c.m.), thus one possible set of dimensions for a one million tonne deposit is 160 x 160 x 10m. King (1983) has calculated the responses from an EM-37 system (a transient EM exploration technique) for a 160 x 160m body of various conductances (width x conductivity) for various depths. In particular, King shows that a 10m wide body with the low conductivity of 10 mhos/m would be (just) detectable at a depth of 200m when at a distance of 100m from the loop edge. Our idealised body of massive pyrrhotite would have a much higher conductivity (perhaps more than 100 times) and hence would be detectable at a much greater depth. However, King's calculations assumed a non-conducting host rock and the very conductive (near surface) conditions at Stonehenge would act to reduce the depth of penetration. The presence of adjacent and (sub-)parallel conductive sequences of graphitic shale bands would also serve to increase the background noise level and possibly, to act as a 'shield' between the transmitting loop and the target.

Magnetic susceptibility may be as high as .01 cgs units for massive pyrrhotite (eg, Renison ore). The maximum response for a vertical (east-west) body 160 x 160 x 10m at a depth of 200m, is 14 gammas. Such a body, with the density of 4gm/c.c. mentioned above, would have the negligible maximum gravity response of 0.3 gu (0.03mgal), assuming a density of 2.5 for the country rock. On the other hand, a ten million tonne deposit (300 x 300 x 28m) at 200m, would have a 'healthy' maximum magnetic response of 79 gammas (and a larger, but still marginal gravity response of 2.2 gu). Table 2 gives the maximum magnetic and gravity responses for one and ten million tonne deposits for various depths. The forms of the magnetic anomalies for a one million tonne body at 200m and a ten million tonne body at 300m (a maximum response of 35 gammas) are also indicated at the scales used in the composite profiles. These sketches show that, despite amplitudes of ten and thirty times the instrument sensitivity, the 'anomalies' would be unlikely to be detected in the presentation of the Stonehenge results. This problem of anomaly detection is further discussed below.



Petrophysical testing of representative samples of core from TH12 shows that the sediments generally have a high chargeability (intrinsic values of 75 to 150mV/V), with moderate resistivities (350 to 1600ohm-m; insitu values would be lower, due to fractures and jointing). Magnetic susceptibilities were all low. A list of all the measurements, including densities (not diagnostic, except for massive sulphides) is given in Table 1.

GEOPHYSICAL SURVEYS

This report does not evaluate any geophysical results obtained by earlier lease holders, although it is known that some surveys have been made (eg, Tenneco's surveys in the vicinity of the Spray workings) which may be useful in determining the geophysical 'signatures' on the grid. However the regional gravity and (aero)magnetic data are examined to see how their results aid or detract from the model.

REGIONAL (AEROMAGNETIC AND GRAVITY).

Figure 42 shows the results of the Mines Dept's 1981 aeromagnetic survey of the west coast. A well defined high is seen under the Stonehenge grid with a smaller, but equally well defined, anomaly over Severn. Other anomalies, to the west, are due to magnetite in the Crimson Creek Formation (increasing in intensity towards the Heemskirk Granite) and within the granite itself. Ultrabasics outcrop at Trial Harbour, immediately to the west of the southwestern corner of Figure 42.

The residual gravity data from the Mines Dept's 1981 Zeehan survey is shown in Figure 43. This shows a gravity high at Stonehenge (in near-coincidence with the magnetic anomaly), and Severn at the southwestern edge of a large negative trough.

According to the model (of a granitic cupola intruding carbonate bearing rocks), the Severn and Stonehenge magnetic anomalies would be due either to hornfelsing around the granite contact or to skarn mineralisation, and a gravity low would be expected from the underlying granitic cupola. (It was shown above, that no gravity response would be obtained from any deep seated mineralisation and any shallow sulphides would affect only 1 or 2 readings (at 500m centres) of this semi-regional survey.) The fact that Severn does not show the 'classic' response and yet is known to contain a significant volume of sulphides, shows that the model must not be rigidly adhered to; however a basic or ultrabasic intrusive provides a ready explanation for coincident gravity and magnetic highs.

An interpretation of the aeromagnetic high is given in Figure 44; this shows the main contribution to come from a source at 500m plus, with a smaller, shallower body on the western side. This second source may be linked to the western anomaly defined by the ground survey (see later). Figure 45, an interpretation of the



gravity, shows that the bulk of the response may be explained by giving a density contrast of 0.1gm/cc to the magnetic source. This would suggest that the magnetic anomaly is due to a basic intrusive rather than a halo of hornfels around a (less dense) granite; however, such an interpretation is not considered geologically likely (Komyshan, pers. com.).

In a search for an explanation of the Stonehenge magnetic high, the aeromagnetics (at 1:63,360) was overlaid onto the Zeehan one mile geological sheet. This showed a good correspondence between magnetics and outcrops of (Tertiary) basalt, (Jurassic) dolerite and (Cambrian) ultrabasics; there was no direct correspondence with the Cambrian gabbro intrusives. Since the Stonehenge anomaly is apparently within the pre-Cambrian Donah Formation, none of these sources seem geologically likely. Other magnetic anomalies overlie the Donah around Zeehan (eg, immediately to the southwest of Stonehenge), but well to the north of Zeehan large areas of Donah Quartzite are magnetically flat.

AIRBORNE EM.

The area was covered by a Dighem survey in 1982. This defined several sub-parallel conductive zones on the northern flank of the Stonehenge magnetic anomaly. These were interpreted by Bishop (1982) as being due to a series of graphitic shale bands. Subsequent drilling has shown that weathering of carbonate beds to clays (to at least 10m depth), may also have caused some of the EM anomalies. Four anomalies were evaluated as being of potential interest, but there were no magnetic responses associated with any of these (the deepest of which had interpreted depths of only 36m). It thus seems unlikely that any of the Dighem anomalies are due to a cassiterite-pyrrhotite body but a stanniferous pyrite, or other sulphide, body cannot be discounted.

The four recommended anomalies in Bishop, 1982 (H, I10, I11, M6) are further evaluated in the Discussion, in the light of the subsequent surveys.

VLF.

This survey was carried out (by Poltock Bros) as ground follow up of the Dighem survey. A Phoenix VLF-2 receiver was used, recording dip angle and field strength at 12.5m intervals. The data has been presented as dip angle and (smoothed) derivative of the dip angle on the composite profiles and as contours of the derivative at 1:5,000 scale (Figure 38). A large number of anomalies were recorded, mostly to the north of the base line. Most of the Dighem anomalies were identifiable with VLF responses, although the latter defined several (weaker) zones not detected by the Dighem survey.

The derivative parameter is useful since it produces a simple 'high' over the source (see Fraser, 1969), however it does not show the 'style' of the original response which may be diagnostic; eg, the anomalies at 1300E/100N and 1600E/00 show the



classical 'crossover' from shallow conductors; the anomalies on 1900E are apparently crossovers from deeper sources. These should be compared with the response at 2300E/100N which shows a simple high. This latter type of response is caused by geologic contacts with the steeper side of the anomaly over the more conductive rock type (Telford et al, 1976; p. 598). Not all of the dip angle anomalies may be so easily categorised and many of course exhibit characteristics of both types, where a conductive fault separates two rock types with differing resistivities.

The contour plan shows several rather contorted patterns (mostly determined from comparisons of the profiles, although the strong east-northeast trending response between lines 1600E and 2000E was also evident on the resistivity results -see later), and alternative alignments are quite possible. An inspection of the composite profiles suggests that most of the west-northwest trending zones are at least partly due to 'contact-type' sources (ie, may be due to edges of conductive strata such as graphitic shales or clay bands); the responses along the baseline between 2000E and 1200E (at 100N) are an exception and may be due to a narrow conductive sequence or, more likely, a water saturated or mineralised fault. The eastern end of this zone (2300E) has a 'contact' appearance and on 2100E, where it was tested by DDH TH12, a mixed style: ie, the strong VLF anomaly at 2100E/60N above the drill hole is probably partly due to the fault intersected at 130m, but mainly to the contact with black shales below this level.

The east-northeast trending zone mentioned above and the parallel feature to its north, have dip angle responses indicative of narrow conductors and they are interpreted as faults.

INDUCED POLARISATION.

A gradient array IP survey was carried out by Scintrex in March, 1983 using a 25m dipole (expanded to 50m in conductive areas). It defined a large area of low resistivities north of the base line (Figure 40) and several zones of chargeability highs; the most prominent of which, closely followed the baseline (Figure 39).

Figure 40 shows that most of the grid north of the base line is less than 100 ohm-m, with a significant proportion less than 25 ohm-m. These areas of very low resistivity are apparently due to quite thick layers of clay, formed by weathering of carbonate sequences (DDH TH12 was collared on such an area and it intersected clay down to 10.5m). The southern boundary of the low resistivity area is closely associated with the 'baseline' VLF and/or chargeability zones (see the anomaly compilation, Figure 41); thus supporting the view that these two zones, though not often coincident, represent a definite lithological change -and possible (mineralised) fault across most of the grid.

This zone was tested on line 2100E by DDH TH12: several stations near the collar were too conductive to obtain chargeability readings, but the results suggest a chargeability high immediate-



ly to the north of the fault (at about 60N on this line). This fault marks the point of inflection of the resistivity curve from low to high values (north to south) and the strong VLF anomaly described previously. The source of the chargeability high is not obvious; the fault was not mineralised in TH12 and dolomite was recorded on the (structural) hanging wall. On the foot wall, black shales were intersected and these gave rise to a 40+mV/V chargeability anomaly immediately to the south of the baseline. Since this anomaly is part of the 'baseline' zone referred to above, the 'major contact' may mark the southernmost occurrence of argillaceous sediments on the grid (apart from a few isolated areas, picked out on the chargeability map) rather than a persistent fault structure.

Other chargeability highs (typically of 40+ mV/V) occur elsewhere on the grid: the largest anomalous area is at the northern ends of lines 2000E and 2200E, open to the northwest and extending across to line 2400E. This and other comparable responses are interpreted as being due to graphite and/or disseminated pyrite within the sediments. Other lower responses may be due to clays.

MAGNETICS.

The grid was surveyed by Poltock Bros in Nov., 1982 using Gold Field's Geometrics G816 magnetometers with readings every 12.5m. Two distinct anomalies were defined: a broad deep-seated anomaly and a more localised shallower response on the western side of the grid (see Figure 37). The deep-seated response is the surface expression of the regional anomaly described above and this is further discussed below.

The western anomaly has been modelled using the line 1000E data, where it reaches its maximum amplitude. Figure 46 shows a reasonable fit of the model to the field data (which has had a regional removed). The proposed body is 200m (long) x 50m (wide) x 270m (deep), dips at 70 deg. to the north and is buried 50m below the surface. (A susceptibility of 0.005 cgs units was assumed.) If this were to represent a body of pyrrhotite (ie, a density of about 4gm/cc), a tonnage of the order of ten million tonnes is indicated. (The responses on adjacent lines have not been calculated to check the strike length estimate; also, the depth extent is not an 'important' parameter and could probably be increased.) However the lack of coincident IP and resistivity responses suggest that pyrrhotite is not the source. A more likely cause is a sequence of volcanics, either as a single body or as a number of separate, shallower sources. Also possible is a body of magnetite associated with the major fault.

The grid's main anomaly defines an apparently deep seated source which has been detected by the Mines Dept's aeromagnetic survey and by the Dighem and ground surveys. For the first, an east-west interpretation (along a flight line) indicated a source at about 450m, with a shallower source (still at 250m+) approximately below the '1000E' anomaly described above. Interpretation of the Dighem response (along a north-south flight line) suggested a depth closer to 400m for a source 2000m long (east-west) and



1300m wide (see Figure 47). A similar model 'fits' the ground data (Figure 48). However both models show a poor fit to the data on the southern sides of the anomalies: this suggests the source to be somewhat shallower between 500S and 600S. Also, the 'noise' at the peak of the ground data, indicates other shallower sources. For a more comprehensive interpretation, the coverage should be extended to the north and should also be extended to the south to obtain the factual, rather than the interpolated, data.

DISCUSSION

At the beginning of this report, it was suggested that the area was similar to Queen Hill-Severn where a significant volume of cassiterite/stannite mineralisation has been defined. It may be instructive to outline the results of some of the geophysical surveys over this area. Firstly, it is noted that the near surface lodes at Queen Hill are atypical of the Zeehan Field in that they contain significant stannite and/or cassiterite. Both Williams (1968) also noted that the area was anomalous in an otherwise well defined zoning pattern.

A Turair survey was conducted over Queen Hill (Howland-Rose, 1973) and a 25mho anomaly defined the known mineralisation (the Gippsland and Clarke's lodes). This anomaly had a small magnetic anomaly (of 8 gammas) associated with it, but was located on the flank of a much larger anomaly. A residual response within this anomaly (see figure 2; Bishop, 1982) is due to a deeper (and larger) volume of sulphides, known as the Severn deposit. The Clarke's lode also gave good SP and IP responses (Daly, 1965 and Simpson, 1975). Down hole IP showed both lodes to be highly conductive (upto 200 times background; Howland-Rose, 1972) and applied potential surveys appear to have been effective (Simpson, 1975). The conductivities of these deposits are a little puzzling: usually such good values are associated only with pyrrhotite bearing deposits, which should be magnetic and which, one would expect, would have been outlined by that method. (Chalcopyrite has also been recorded at Queen Hill (Williams and Both, 1971) and sufficient quantities of this (at least 2%) may also significantly increase the conductivity.)

There is no mention of any ground magnetic survey (nor of its possible application) in any of this open file data, but it seems likely that it was used to better define the deeper response at Severn. The BMR detected a small magnetic anomaly over Clarke's lode in 1954 (Daly, 1965 - amplitude not stated) but none was recorded by Gardener (1964) in a later series of surveys. (Nor is there any mention of any gravity survey, though it is quite possible that it also has been used and described in the closed files.) Thus the (geophysical) emphasis at Queen Hill has apparently been on electrical, rather than potential, methods. But at Stonehenge, known stanniferous lodes are not being further investigated and there is no tin zoning at the surface: thus a deeper target is expected.



The Stonehenge IP survey should not be regarded as having investigated the area to any significant depth; particularly to the north of the baseline, where the conductive near-surface will have severely reduced the penetration. These conditions will of course serve to hamper any further electrical surveys; but transient EM methods, such as 'Sirotem' which was designed to penetrate a deep conductive overburden, should be effective. Whether such surveys are warranted depends on whether a conductive but non-magnetic host is a likely but worthwhile target. Queen Hill could perhaps be cited as an example, but this is just a small, and near-surface part of a large deposit (Severn) - which has a magnetic expression. Further, although Queen Hill is conductive, it does not approach the very high conductivities of Renison ore. Howland-Rose (1972) gives a conductance value of 20 mhos (in contrast to Renison's 1,000+) which is comparable to the 10mhos used by King (1983). However the conductive host rocks at Stonehenge will considerably reduce the depth of detection to less than King's 200m for a one million tonne body.

CONCLUSIONS AND RECOMMENDATIONS

The Stonehenge area was conceptually chosen for investigation for tin: its proximity to a tin bearing granite, a number of steeply dipping faults, the presence of carbonate rocks and the nearby Queen Hill deposit in an apparently similar geological environment, all indicated a prospective area. The exploration effort was focussed on the large magnetic high. Whilst the electrical surveys outlined a large area of potential host rocks, the ground magnetic survey confirmed the deep seated nature of the aeromagnetic high: there was no shallow residual anomaly. The one potentially interesting magnetic anomaly that has been defined, does not have any other associated geophysical (or geochemical) responses to suggest a (cassiterite-) pyrrhotite source. Since Renison-style deposits are both magnetic and conductive (and chargeable), there appears to be no such deposit on the Stonehenge grid within reach of the geophysics (say 200m or deeper, for large bodies).

However two specific areas are suggested for further investigation: the magnetic but non-conductive anomaly at 1000E/20S and the conductive but non-magnetic anomaly at 1800E/375N. Further geophysics is recommended for these two areas to confirm or refute their potential, but specifications for drilling have been included in the summary.

Although Queen Hill is part of a tin system which does have a magnetic signature, it is a non-magnetic, but conductive tin deposit. If a similar deposit is considered worth searching for on the Stonehenge grid, a transient EM survey is recommended over the area of low resistivities north of the baseline. The two magnetic anomalies should also be included in such a survey.

J. Bishop
20-9-83



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Table 1.

Petrophysical Measurements.

(samples taken from core of DDH TH12)

SAMPLE No.	DEPTH (m)	DESCRIPTION	MAGNETIC SUSCEPTIBILITY ($\times 10^{-3}$ cgs units)	DENSITY (gms per c.c.)	PERCENT FREQUENCY EFFECT (30 - 300Hz) [*]	RESISTIVITY (ohm-m)
11/1.	42.6	carbonate rich rock	0.02	2.67	33.	45.
11/2.	82.6	fault breccia zone with lead-zinc mineralisation.	0.16	3.21	8.	1,662.
11/3.	99.6	carbonate rich siltstone.	0.01	2.85	16.	498.
11/4.	130.1	mineralised black shale within fault zone.	0.02	2.71	15.	358.
11/5.	185.1	interbedded black shale and sandstone.	0.04	2.78	3.	1,339.
11/6.	286.9	very altered spilite.	0.04	2.83	40.	1,453.
11/7.	316.9	medium grained spilite.	0.08	2.82	2.	4,898.
11/8.	383.0	fine grained, altered spilite.	0.09	2.82	73.	11,166.
11/9.	390.3	sericitized, medium grained spilite.	0.07	2.84	1.	1,275.

* To convert to the (approximate) equivalent chargeability, multiply by 5.



Table 2.

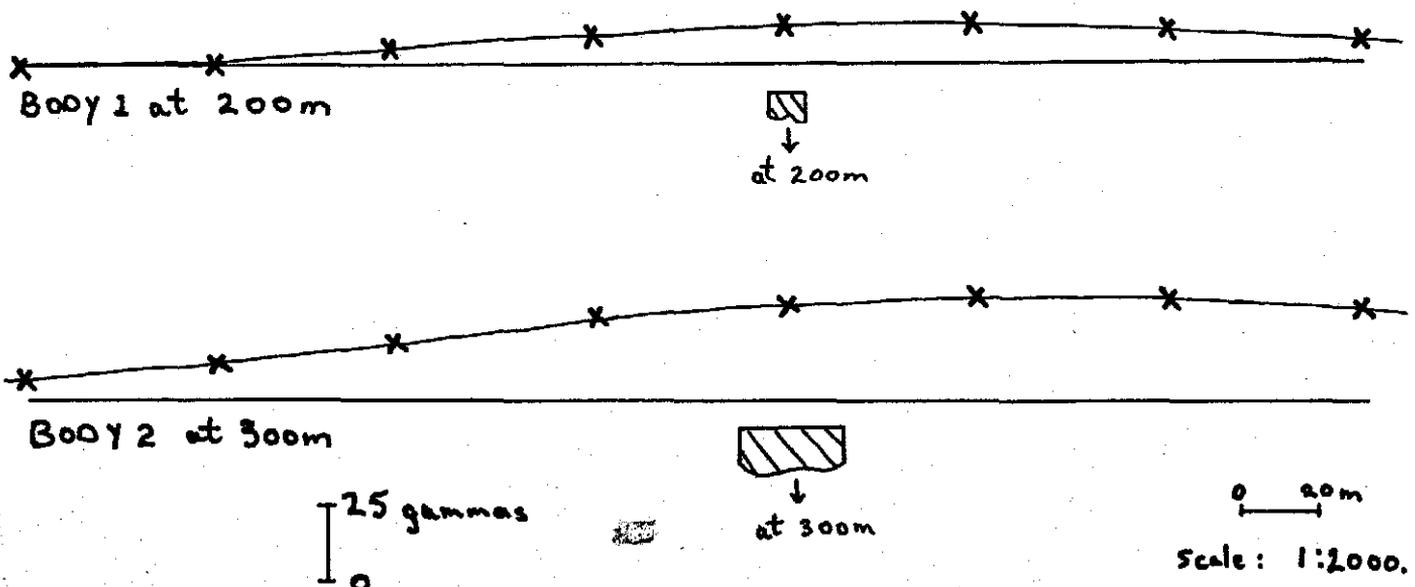
Maximum Magnetic and Gravity Responses from Highly Anomalous and Idealised Bodies.

BODY 1: one million tonnes (160m long x 160m deep x 10m wide).

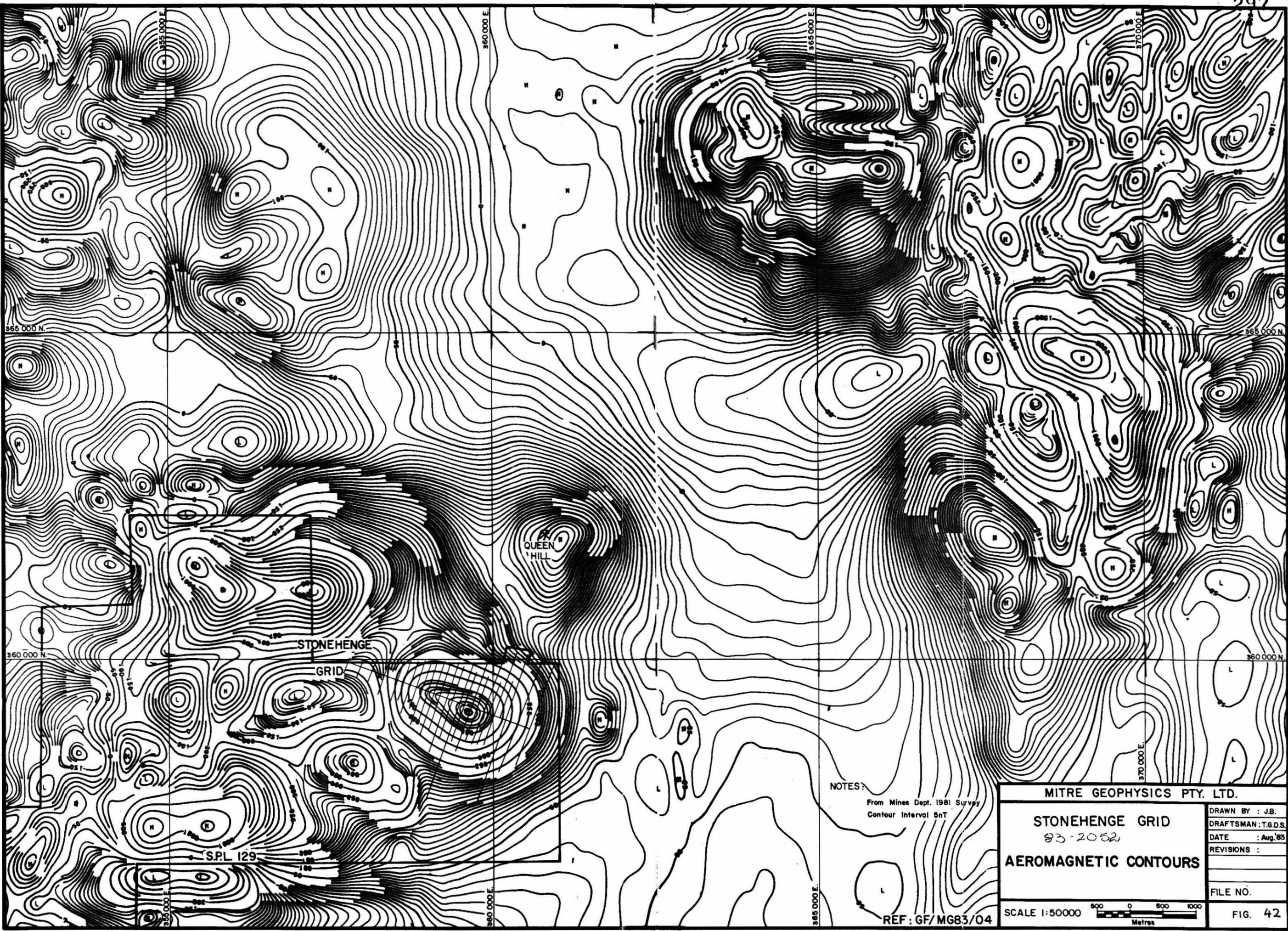
BODY 2: ten million tonnes (300m long x 300m deep x 28m wide).

Both bodies are vertical and strike (magnetic) east-west. They have a magnetic susceptibility of 0.01 cgs and a density contrast of 1.5 gm/cc.

Depth (m)	BODY 1.		BODY 2.	
	max. mag response (gammas)	max. grav response (gu)	max. mag response (gammas)	max. grav response (gu)
50.	159.	1.8	505.	7.8
100.	54.	0.9	228.	4.6
150.	26.	0.5	129.	3.1
200.	14.	0.3	79.	2.2
250.	9.	0.2	51.	1.7
300.			35.	1.3
400.			19.	0.9
500.			11.	0.6



502298

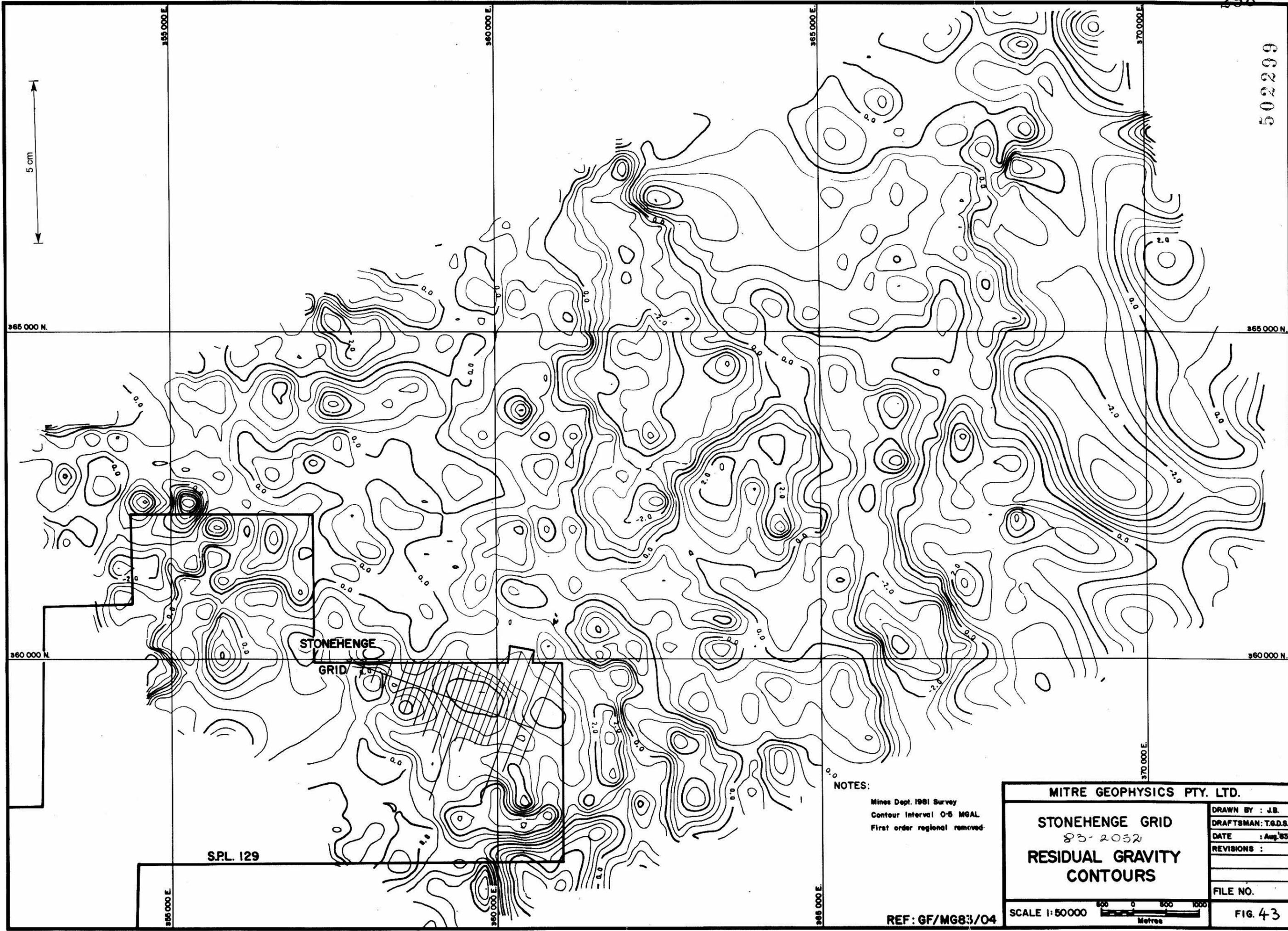


NOTES:
 From Mines Dept. 1981 Survey
 Contour Interval 5m

MITRE GEOPHYSICS PTY. LTD.	
STONEHENGE GRID	
83-2052	
AEROMAGNETIC CONTOURS	
SCALE 1:50000	800 0 800 1000 Metres
REF: GF/MG83/04	FIG. 42

DRAWN BY : J.B.
DRAFTSMAN : T.G.D.S.
DATE : Aug, 83
REVISIONS :
FILE NO.

5 cm



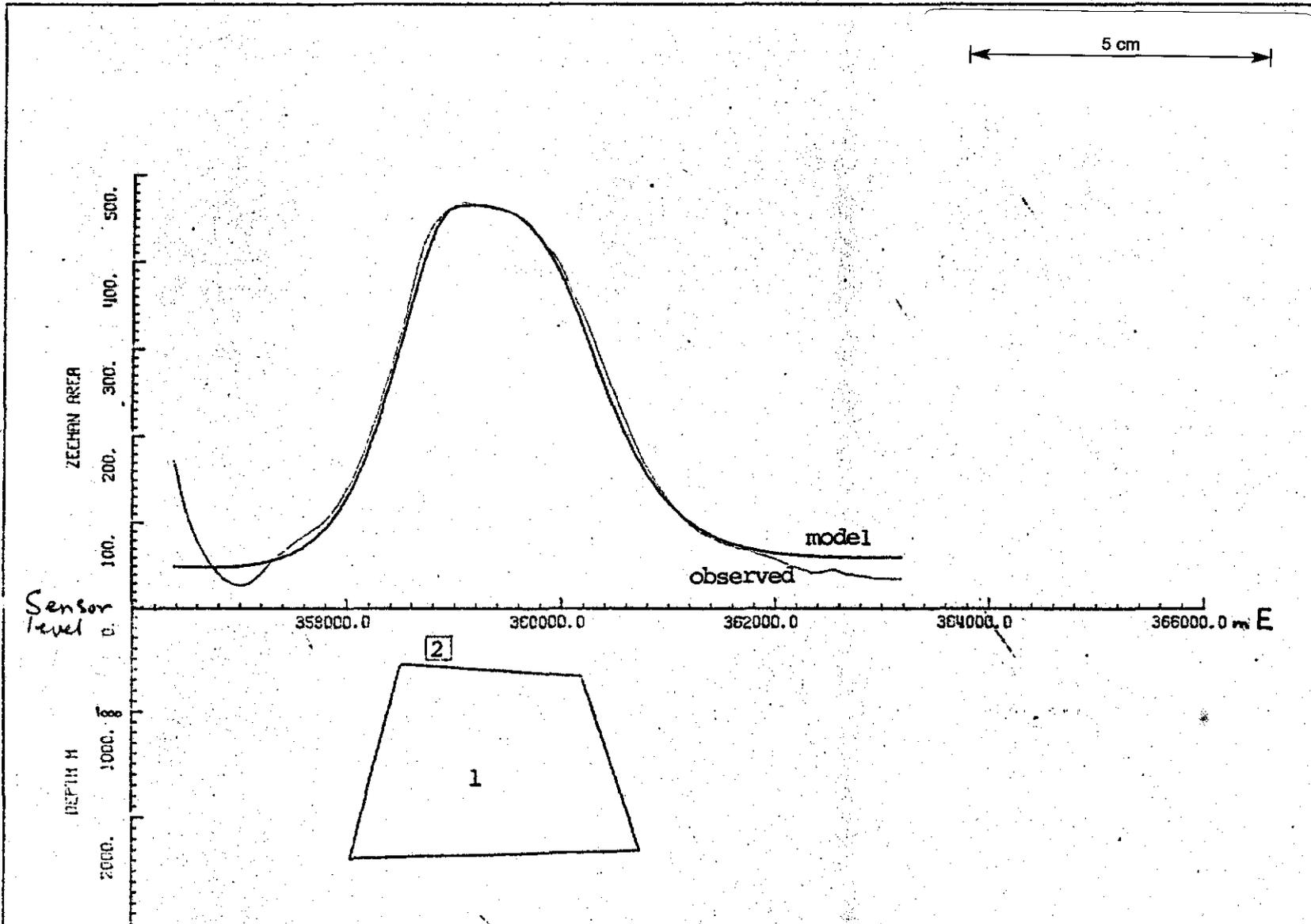
NOTES:
 Mines Dept. 1981 Survey
 Contour Interval 0.5 MGAL
 First order regional removed.

MITRE GEOPHYSICS PTY. LTD.	
STONEHENGE GRID 83-2032	
RESIDUAL GRAVITY CONTOURS	
SCALE 1:50000	
DRAWN BY : J.B. DRAFTSMAN: T.G.D.S. DATE : Aug. 83 REVISIONS :	FILE NO. FIG. 43

REF: GF/MG83/04

502300

83-2052



TASMANIAN MINES DEPT
AEROMAGNETIC SURVEY

Incl: -72°

Intensity: 62500 nt

Profile orientation: 78° (mag.)

Susceptibilities (cgs units)

1: .00265

2: .003

height of sensor: -135m

MITRE GEOPHYSICS PTY. LTD.

STONEHENGE
magnetic modelling

Ref: GF/MG 83/04

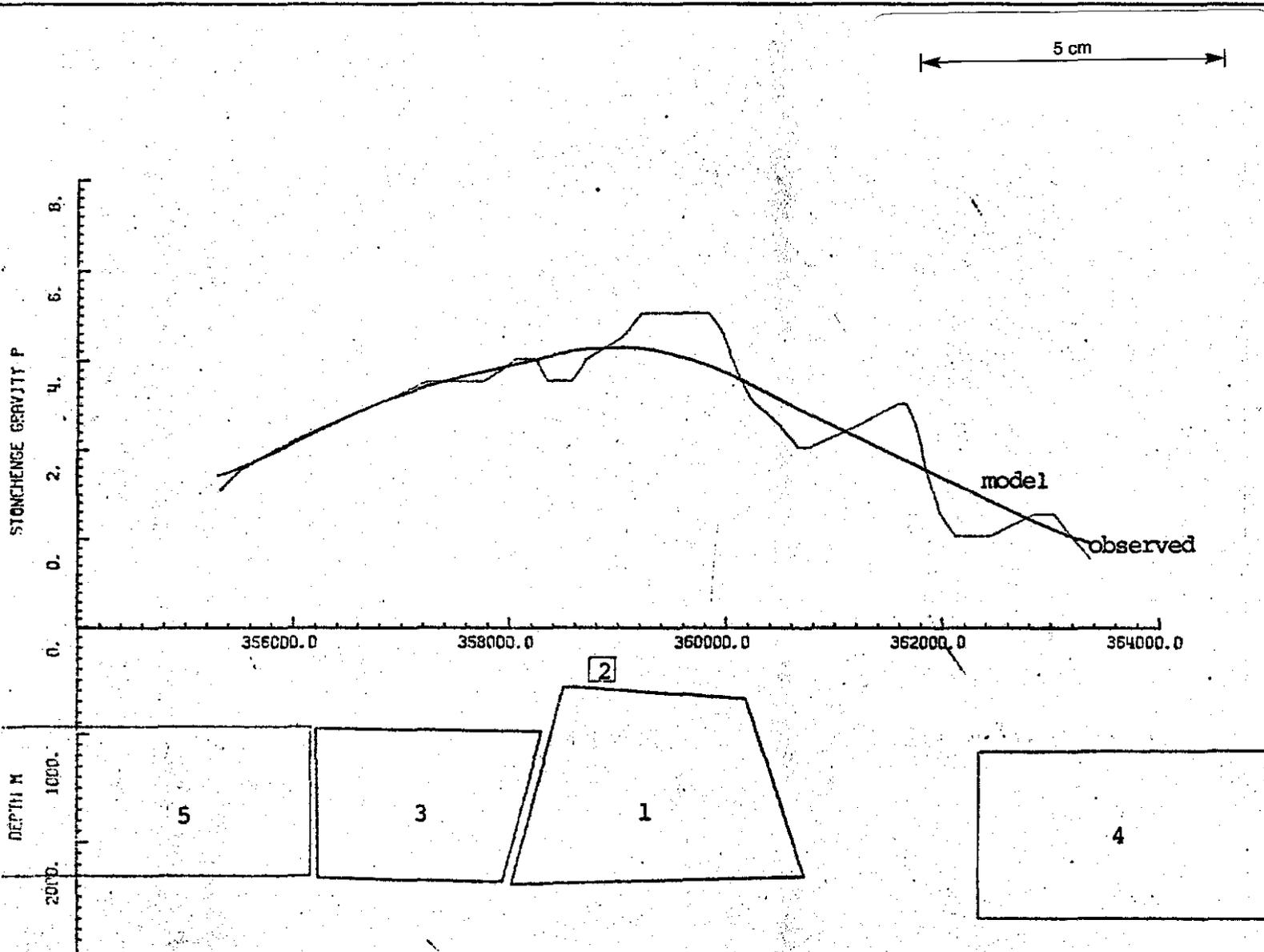
PROJECT FILE NO.

44

DATE

502301

83-2052



TASMANIAN MINES DEPT
AEROMAGNETIC SURVEY

Density Contrasts
(gm/c.c.)

- 1. 0.1
- 2. 0.0
- 3. .05
- 4. -0.1
- 5. -0.08

Susceptibilities

- 1. .00265 cgs
- 2. .003 cgs

MITRE GEOPHYSICS PTY. LTD.

STONEHENGE
gravity modelling

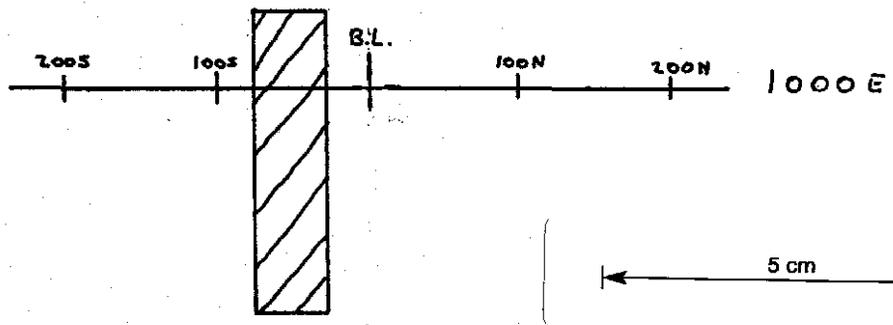
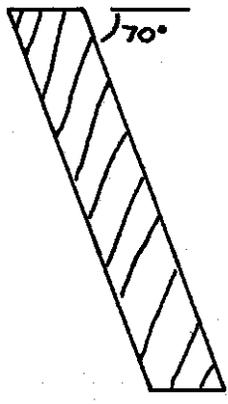
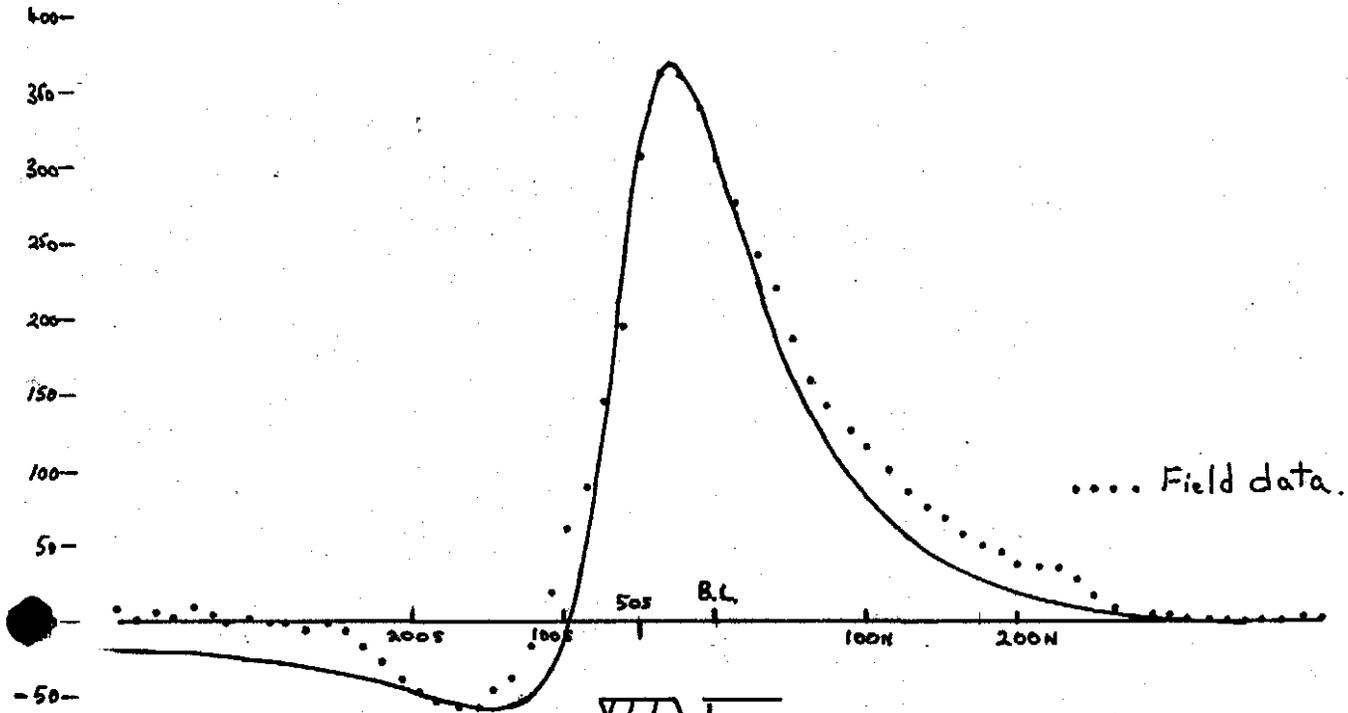
Ref: GF/MGB3/04

PROJECT FILE NO.

45

REV. 2-1983

502302



$T = 62500 \text{ nt}$
 $I = -72^\circ$
 $k = .005 \text{ cgs}$
 strike = $98^\circ (\text{mag})$
 width = 50 m
 depth = 50 m

MITRE GEOPHYSICS PL	
STONEHENGE.	
magnetic modelling	
line 1000E.	
Date: 27-7-'83.	FIG 46
Scale: 1:5000	JRB

Ref: GF/H683/04

502303

— 83000
 — 950
 — 900
 — 850
 — 800
 — 750
 — 700
 — 650
 — 600
 — 550

62500 (mag) South

(mag) North

ground surface

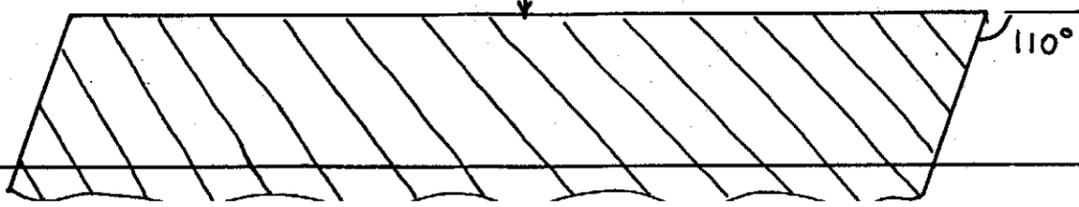
359,600E
5,359,100N

45m

5 cm

$T = 62500 \text{ nT}$
 $I = -72^\circ$
 $k = .0024 \text{ cgs}$
 strike = 90° (mag)
 Depth = 450m (below sensor)

Dimensions: 2000m (E-W) x 1300m (N-S)
 x 2000m (down)



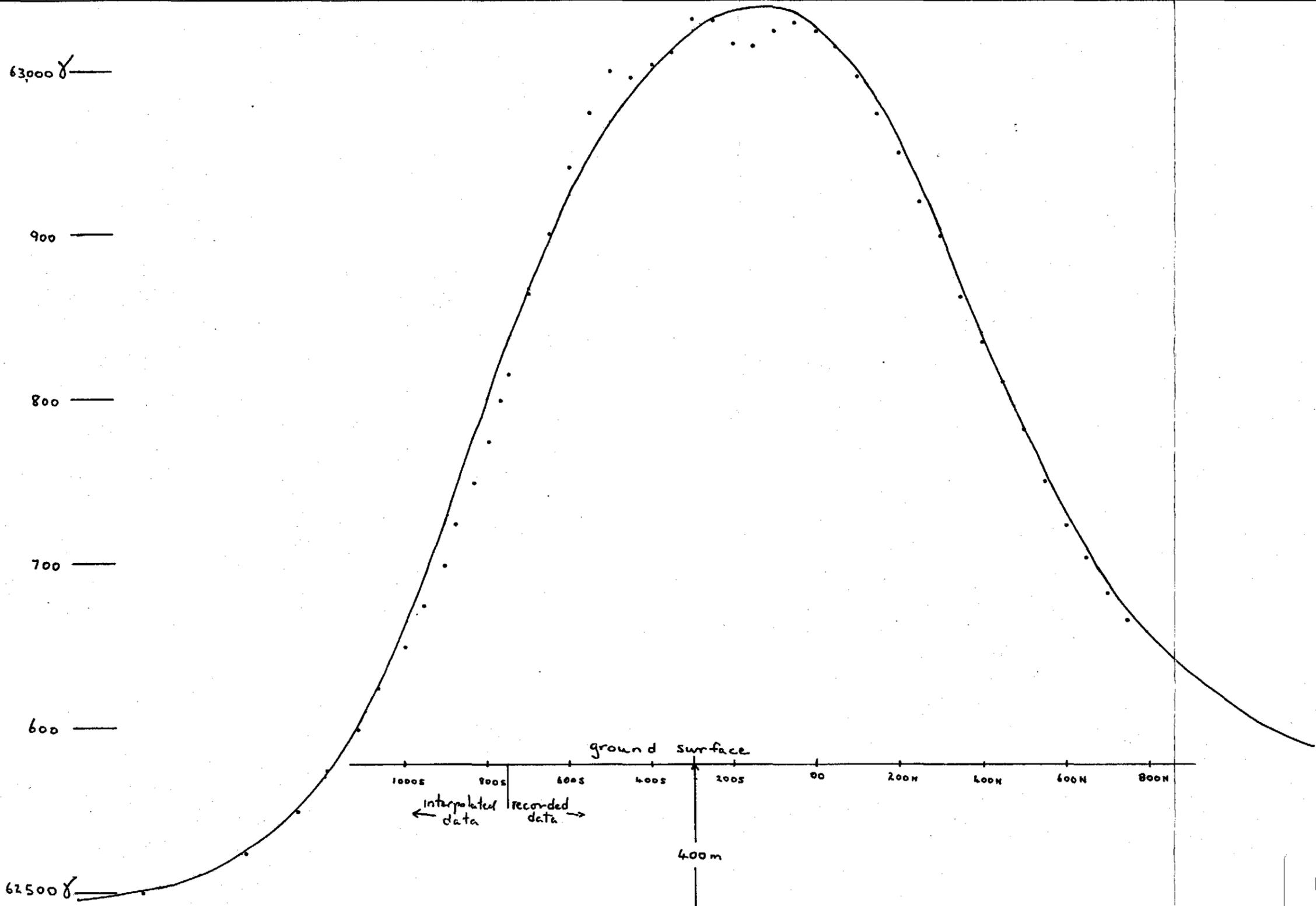
..... Field data

MITRE GEOPHYSICS P/L
 STONEHENGE
 magnetic modelling
 DIGHEM DATA

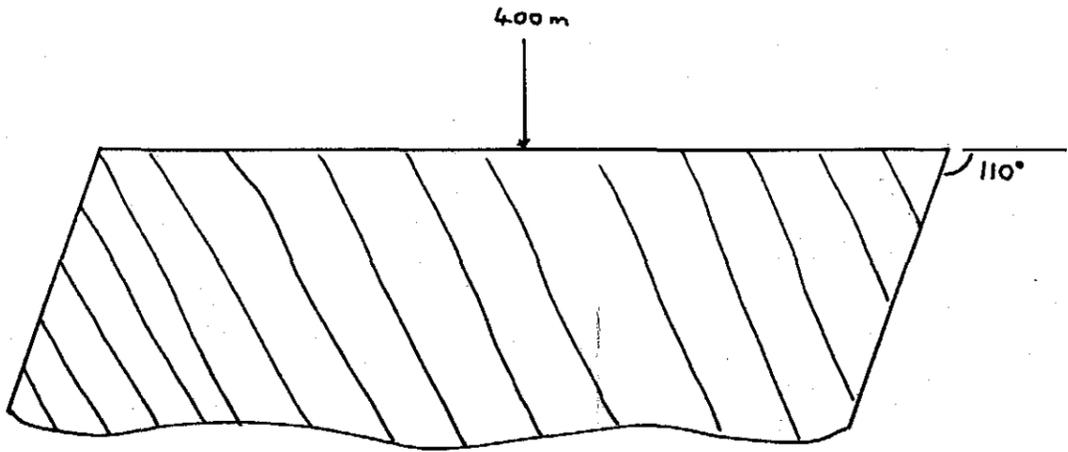
Date: 28-7-83
 Scale: 1:10000
 FIG 47

Ref: GF/MG83/04

502304



$T = 62500 \text{ nT}$
 $I = -72^\circ$
 $k = 0.0027 \text{ cgs}$
 strike = 90° (mag)
 Depth = 400 m
 Dimensions : 2000m (E-W) x 1200m (N-S)
 x 2000 m (down)



5 cm

MITRE GEOPHYSICS
 STONEHENGE
 magnetic modelling
 Line 2000E
 Date: 1-8-83
 Scale: 1:10000. JRE
 FIG 48.

Ref: GF/M983/04

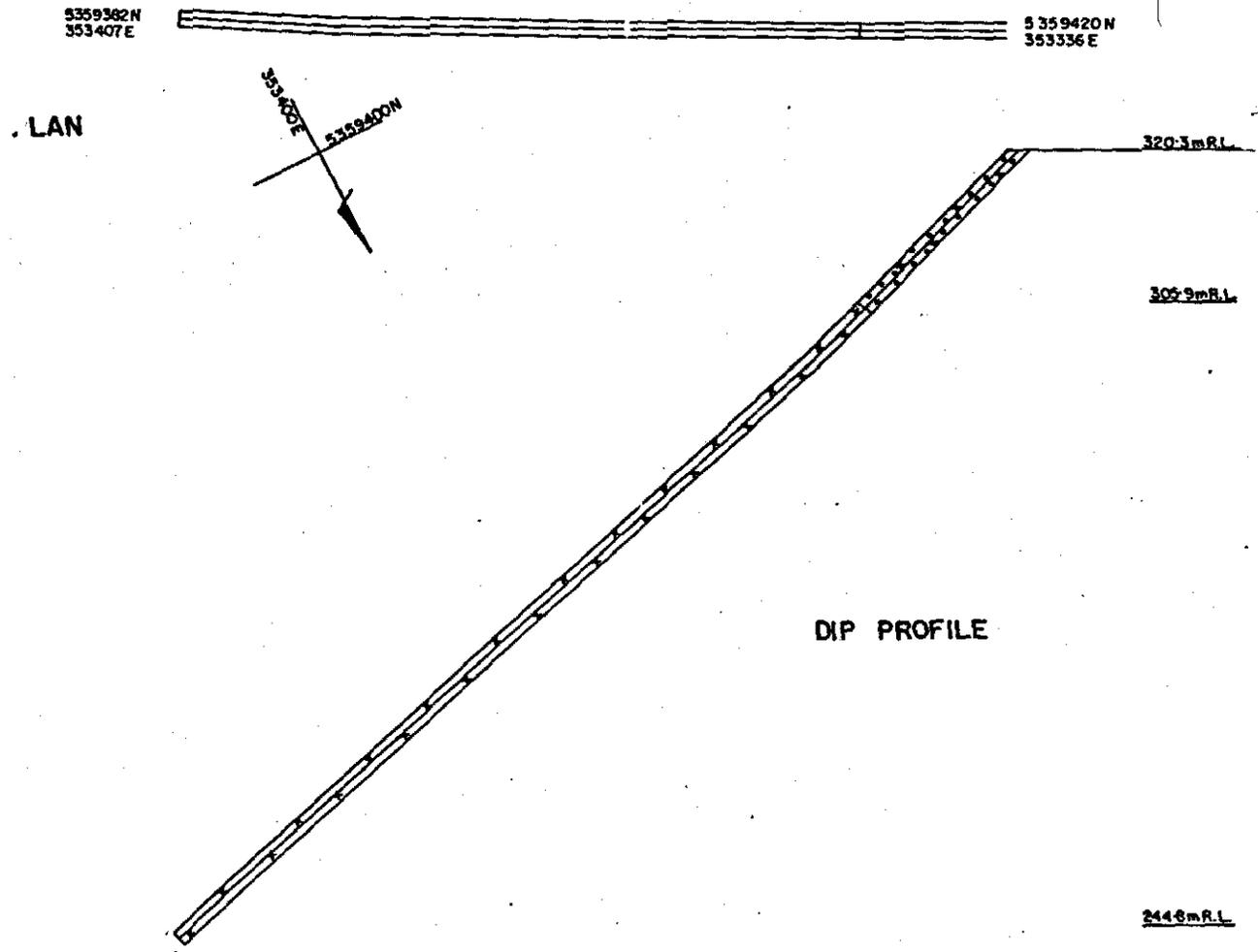
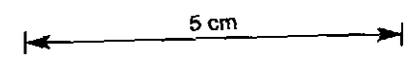
APPENDIX 9.

Diamond Drill Logs, TH10 to TH12.

HOLE NO. TH 10

GOLD FIELDS EXPLORATION PTY. LIMITED
DIAMOND DRILL HOLE PLOT

SCALE 1:500



KEY

-  SLIGHTLY ALTERED MEDIUM GRAINED TOURMALINE GRANITE
-  WEATHERED, ARGILLISED MEDIUM GRAINED TOURMALINISED GRANITE

502308

307

GOLD FIELDS EXPLORATION PTY. LIMITED
 DRILL CORE LOG AND ASSAY DATA

PROJECT: Trial Harbour

HOLE NUMBER: TH 10

Page: 1.

ULV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (all wt%)									
From	To	m	%		Sample No	From	To	Rec. %	Sn	S	As	Zn	Ag (ppm)	
				SUMMARISED LOG										
0.0	20.3	7.0	34	VARIABLY WEATHERED, MODERATELY TO WEAKLY ARGILLISED MEDIUM GRAINED GRANITE. TOURMALINISED.										
20.3	110.0	89.7	100	WEAKLY ALTERED (SERICITISED) MEDIUM GRAINED, SLIGHTLY PORPHYRITIC GRANITE.										
				DETAILED LOG										
				0.0-20.3 WEATHERED AND ARGILLISED GRANITE.										
0.0	11.0	0.9	8	Strongly weathered granitic sand. Brown quartz rich sand with several tourmaline nodules. Medium grained.	477	0.0	11.0	8	0.01	<0.1	<0.1	0.01	<0.01	<1
					478	11.0	16.0	36	0.01	<0.1	<0.1	0.02	0.01	1
					479	16.0	18.0	100	<0.01	<0.1	<0.1	0.02	<0.01	1
11.0	20.3	6.1	66	Pale yellow moderately weathered, argillised granite. Abundant relict quartz and yellow sericite. Strongly fractured with accessory pyrite (very fine grained) and tourmaline. Overall quite soft and friable. Medium grained and very weakly porphyritic.	4180	18.0	20.0	100	0.01	<0.1	<0.1	<0.03	<0.01	<1
				20.3-110.0 WEAKLY ALTERED GRANITE.										
20.3	26.7	6.4	100	Pale yellow grey, medium grained weakly porphyritic granite. Abundant yellow sericite replacing small (approx. 1cm) feldspar phenocrysts. Moderately-weakly altered. Thin quartz-pyrite veinlets developed. Accessory tourmaline occurs as aggregates of needle-like crystals. Weakly fractured with yellow sericite becomes paler and less abundant with depth.										
26.7	31.9	5.2	100	Red hematitic feldspar granite. Same textures as above, very weakly altered with few green-yellow sericite rimmed feldspar phenocrysts. Abundant black biotites and coarse grained quartz. A few large (2-3cm wide) quartz-tourmaline nodules also occur. Between 27.5 and 30.4, the hematitic stain in the feldspar										

GOLD FIELDS EXPLORATION PTY. LIMITED
 DRILL CORE LOG AND ASSAY DATA

PROJECT: Trial Harbour

HOLE NUMBER: TH 10

Page: 2.

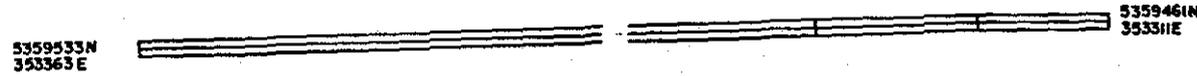
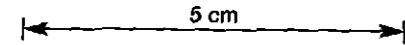
U.S.V. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (all wt%)									
From	To	m	%		Sample No.	From	To	Rec. %	Sn	S	As	Zn	WO ₃	Ag (ppm)
				is absent, producing a yellowish grey granite.										
				Between 30.4 and 30.9, a clay rich zone of strongly fractured soft granite, pale yellow-pink in colour.										
31.9	47.7	15.8	100	Grey medium grained very weakly porphyritic granite, with a slight yellowish tinge due to incipiently developed sericite. Numerous narrow zones of pinkish hematitic feldspars, pervasive quartz sericite alteration and increased fracturing and veinlet development, occur. The overall alteration grade is weak to moderate with biotite replaced by small dark green sericitic flakes.										
47.7	49.3	1.6	100	Fine grained-aplite. Pale grey with a sugary texture of quartz feldspar and lesser biotite all around 1mm in size. Very weakly developed pale yellow-green sericitic feldspars and pyrite veinlets. Gradually becomes coarser grained with depth.										
49.3	79.1	29.8	100	Pale yellow-grey weakly sericitised granite. Medium grained and very weakly porphyritic. Rare fractures are coated with pale yellow clays. All the biotites are altered and quartz-sericite develops pervasive alteration patches. Also rare thin (10cm) aplites and quartz-tourmaline intergrowths occur. Alteration increases over several metres are found also. At 54.5, a 3cm thick pug of pale green clay and pyrite.										
79.1	99.5	20.4	100	Brown-yellow-grey granite, slightly more altered than above. Yellow and brown sericitised feldspars abundantly developed. Silicified zones 10-30cm wide are common. Very fine grained pyrite also occurs as an accessory. Incipient quartz veining is also developed. Overall the granite is medium grained and weakly porphyritic with several fine grained phases occurring. More fractured, pyritic sections (approx. 10cm thick) also occur. Between 95.0 and 99.5, several 1mm thick veinlets of quartz-sulphides occur mainly at OCA. These are surrounded by a narrow 0.5cm thick envelope of increased alteration.	4181	79.0	81.0	100	0.01	1.0	<0.1	0.01	<0.01	1
					4182	83.0	85.0	100	0.01	1.2	<0.1	<0.01	0.01	1
					4183	87.0	89.0	100	0.01	1.2	<0.1	<0.01	<0.01	1
					4184	91.0	93.0	100	0.01	1.4	<0.1	<0.01	0.01	1
					4185	95.0	97.0	100	0.02	0.7	<0.1	<0.01	0.01	<1
					4186	99.0	100.0	100	0.01	0.4	<0.1	<0.01	0.01	1

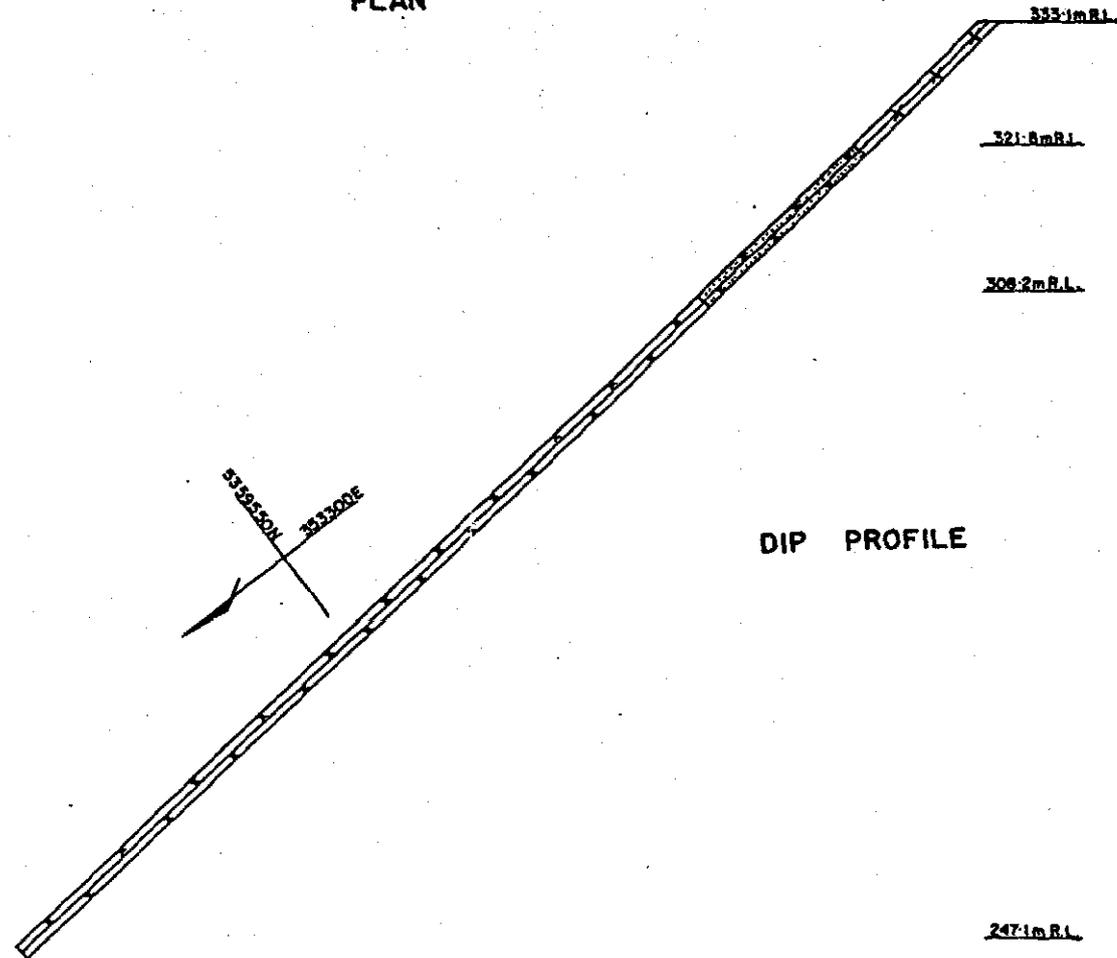
HOLE NO. TH II

GOLD FIELDS EXPLORATION PTY. LIMITED
DIAMOND DRILL HOLE PLOT

SCALE 1:500



PLAN



DIP PROFILE

KEY

-  VERY WEAKLY ALTERED MEDIUM GRAINED PORPHYRITIC GRANITE
-  WEAKLY ALTERED, MEDIUM GRAINED TOURMALINE GRANITE
-  WEAKLY ARGILLISED, MEDIUM GRAINED TOURMALINE GRANITE

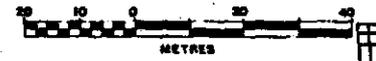
502316

315

HOLE NO. TH 12

GOLD FIELDS EXPLORATION PTY. LIMITED DIAMOND DRILL HOLE PLOT

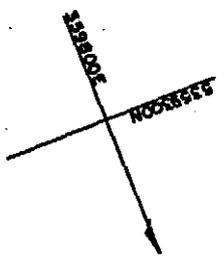
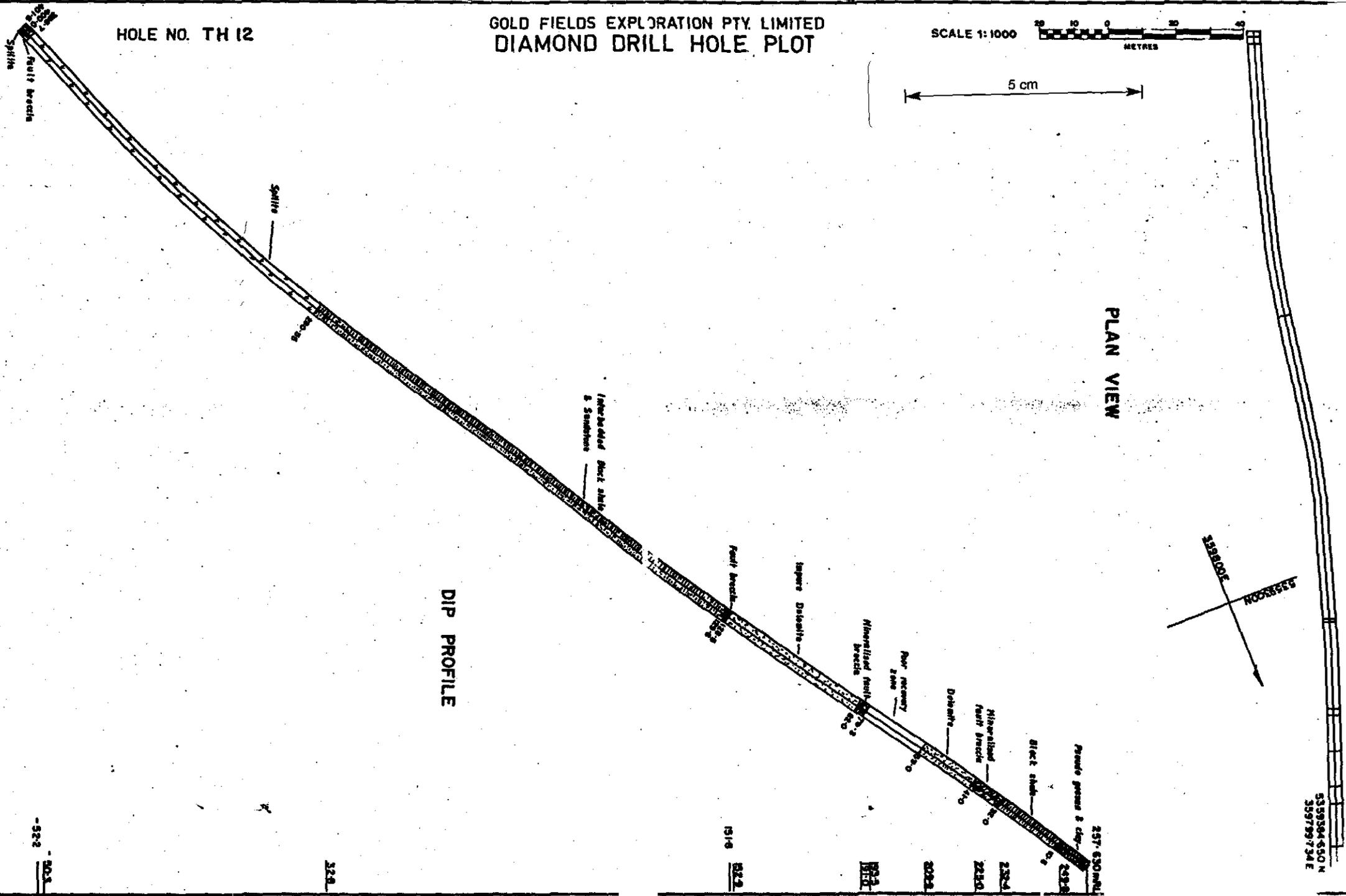
SCALE 1:1000



5 cm

PLAN VIEW

DIP PROFILE



5359364-650 N
335799734 E

-55-2

20.1

32.8

151.8

152.2

193.3

202.1

221.0

235.4

235.8

237.630mRL

GOLD FIELDS EXPLORATION PTY. LIMITED

PROJECT: Trial Harbour

SPL 129

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: TH 12

Page: 2.

ULV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA											
From	To	m	%		Sample No.	From	To	Rec. %	Sn	As	WO ₃	Cu	Pb	Zn	Ag	Sb
32.0	41.0	1.0	11	<u>MINERALISED FAULT BRECCIA</u> Broken zone of poor recovery. Recovered portions includes quartz sphalerite, pyrite and galena vein mineralisation with minor black shale fragments which are initially pyritic but become base metal rich down hole. Brown siderite which appears intergrown with quartz at 40.0m may have been weathered out up hole.	02	32.0	35.0	10	<10	1230	180	110	1800	3.2%	9	240
					03	35.0	38.0	10	<10	250	150	20	2200	2.16%	5	100
					04	38.0	41.0	13	10	320	210	330	2.6%	2.11%	82	720
41.0	59.0	12.3	68	<u>IMPURE DOLOMITE</u> Interbedded grey dolomite rich siltstone and dolomitic sandstone. Some stylolite development, particularly at sand rich dolomite boundaries. Black shale laminae increases downhole. The unit contains well developed differentiated cleavage planes sub parallel to bedding. Numerous quartz-dolomite and dolomite veins and veinlets occur throughout. Welded breccia zones, with fragments of sedimentary dolomite and minor quartz, occur at 45.8m, 46.1m, 48.6m, 51 m, 56.0m. <u>Petrology for 43.7m</u> <u>Classification-Composition</u> <u>Impure Dolomite</u> Microcrystalline dolomite with relatively minor intergrown semi-fibrous quartz, pervasive films of carbonaceous matter. Minor veinlets dolomite and quartz, late sideritic carbonate films. <u>Fabric</u> Finely laminated, locally transcurrent-bedded, weakly sheared with mildly boudinaged dolomite-quartz veinlets. <u>Accessories</u> Trace "sericite", fine silt-sized clastic quartz. Pervasive traces ultrafine syngenetic pyrite.	1105	41.0	42.0	30	10	40	40	60	1400	1270	7	210

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE LOG AND ASSAY DATA

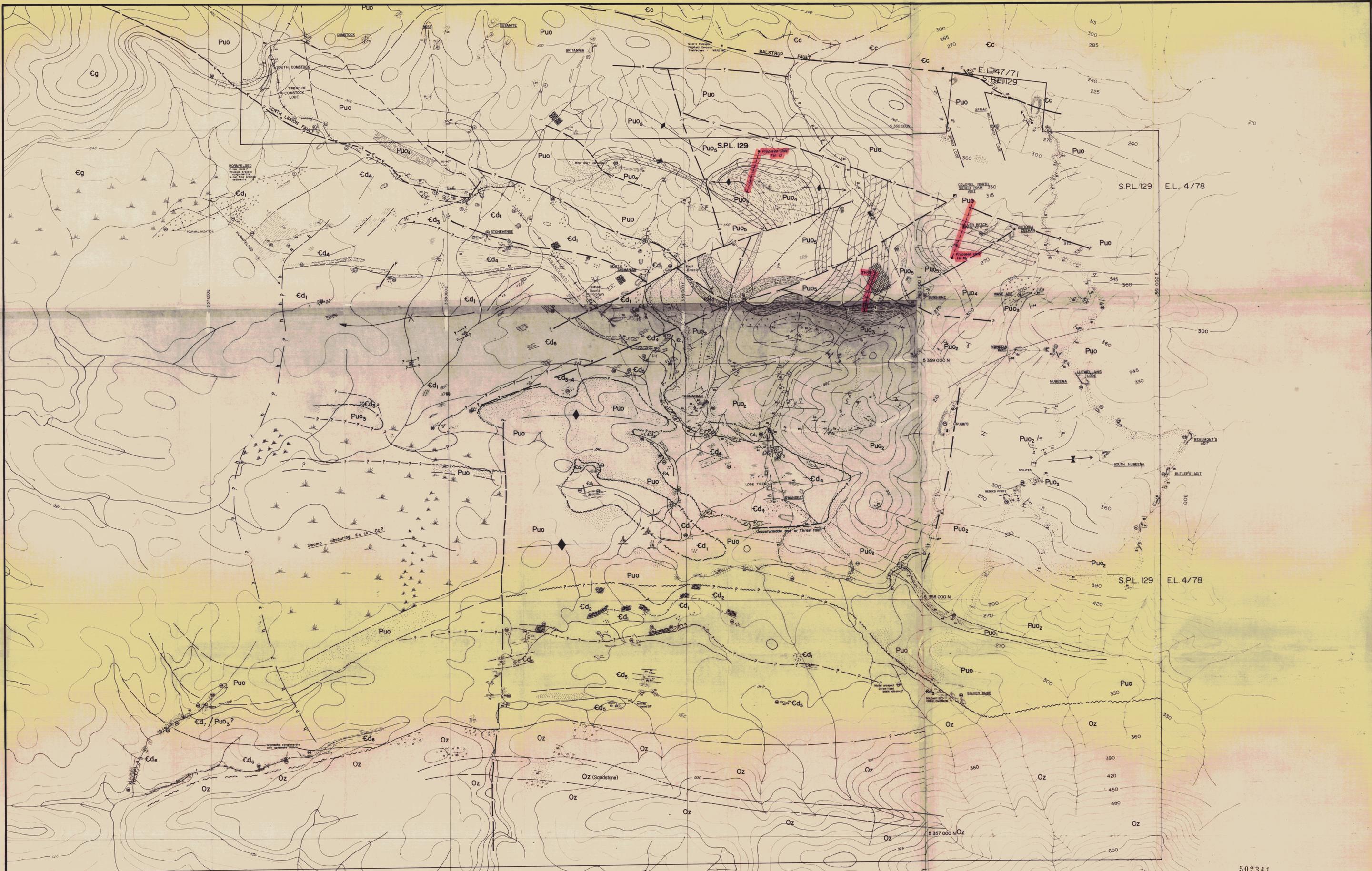
PROJECT: Trial Harbour SPL 129

HOLE NUMBER: TH 12

Page: 11.

ULV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA											
From	To	m	%		Sample No.	From	To	Rec. %	Sn	As	WO ₃	Cu	Pb	Zn	Ag	Sb
291.3	313.3	21.95	100	SPILITE	4135	294.4	295.4	100	20	20	20	130	470	120	4	110
				Pale to dark green, medium grained sericitised basalt with zones of sericitised fine grained tuffaceous sediment which contain minor angular clasts of partly hematitic chert. Feldspar crystals become increasingly albitised downhole and the matrix chloritised. Areas of coarse grained crystallisation e.g. 294.1 are probably from the central part of a thick flow. Pale green hydromica alteration and dolomitisation become pervasive at 294.4-300.9m. Minor disseminated pyrite occurs.	4136	295.4	296.4	100	20	10	10	110	1200	170	9	120
					4137	296.4	297.4	100	<10	30	30	60	2600	690	6	100
					4138	297.4	298.4	100	10	30	10	30	800	210	3	120
					4139	298.4	299.4	100	10	40	10	80	600	150	4	130
					4140	299.4	300.4	100	<10	10	20	540	140	40	2	130
				B.C.A. ? at 312.8m 70° - chert bed.												
				<u>Petrology 294.1m</u>												
				<u>Classification - Composition</u>												
				Altered Microgabbro. Sericite-pseudomorphed plagioclase laths, interspersed ankerite-chlorite-cherty quartz pseudomorphed pyroxene. Sporadic chlorite-ankerite veinlets.												
				<u>Fabric</u>												
				Relict uneven-grained sub- to ophitic, weakly pyroxene-plagioclase porphyritic. Fractured to semi-brecciated.												
				<u>Accessories</u>												
				Minor leucoxenised opaques, corroded relics of calcic plagioclase. Traces pyrite marginal to veinlets.												
				<u>Comments</u>												
				Thoroughly altered basic minor intrusive or, alternately, core zone of relatively thick flow. Chloritic veinlets intersected by late carbonate-healed microfractures.												
313.3	330.1	16.8	100	ALTERED QUARTZ MICROGABBRO	4141	317.9	318.9	100	10	<10	<10	10	70	50	3	180
				Dark green medium to coarse grained microgabbro with phenocrystals of sericitised feldspar and altered pyroxene. The rock is extensively sericitised and numerous veinlets of quartz	4142	318.9	319.9	100	<10	10	20	10	130	50	2	120
					4143	319.9	320.9	100	10	10	10	10	230	50	2	130
					4144	320.9	321.9	100	10	20	10	30	110	50	2	120



Quaternary	Ordovician	Carboniferous	Permian
Qa - Recent Alluvium	Oz - Oz (Sandstone)	Cd ₁ - Sandstone, Siltstone, Shale, etc.	Pu ₁ - Unconsolidated
Qb - ...	Oz - ...	Cd ₂ - ...	Pu ₂ - ...
Qc - ...	Oz - ...	Cd ₃ - ...	Pu ₃ - ...
Qd - ...	Oz - ...	Cd ₄ - ...	Pu ₄ - ...
Qe - ...	Oz - ...	Cd ₅ - ...	Pu ₅ - ...
Qf - ...	Oz - ...	Cd ₆ - ...	Pu ₆ - ...
Qg - ...	Oz - ...	Cd ₇ - ...	Pu ₇ - ...

SYMBOLS
--- Geological boundary
--- Fault boundary, unconsolidated and/or high
--- Fault boundary, consolidated
--- Fault and shear zone, high-angle, steeply dipping
--- Line (open shape)
--- Dip and strike of bedding
--- Dip and strike of bedding, unroofed
--- Dip and strike of foliation
--- Anticline, syncline, etc.
--- Trench, bedding
--- Well sample location
--- Well workings, old
--- Shaft
--- Dump

UNSATURATED ROCKS
Ug - Unconsolidated
Uc - Consolidated
Ud - ...
Ue - ...
Uf - ...
Ug - ...
Uh - ...
Ui - ...
Uj - ...
Uk - ...
Ul - ...
Um - ...
Un - ...
Uo - ...
Up - ...
Uq - ...
Ur - ...
Us - ...
Ut - ...
Uv - ...
Uw - ...
Ux - ...
Uy - ...
Uz - ...



ZEEHAN D1/1	ZEEHAN D1/2
ZEEHAN D1/3	ZEEHAN D1/4

502341 83-2052

GOLD FIELDS EXPLORATION PTY. LIMITED

STONEHENGE GRID

INTERPRETATIVE

GEOLOGY

SCALE 1:5000

DRAWN BY: P.K.M.P.

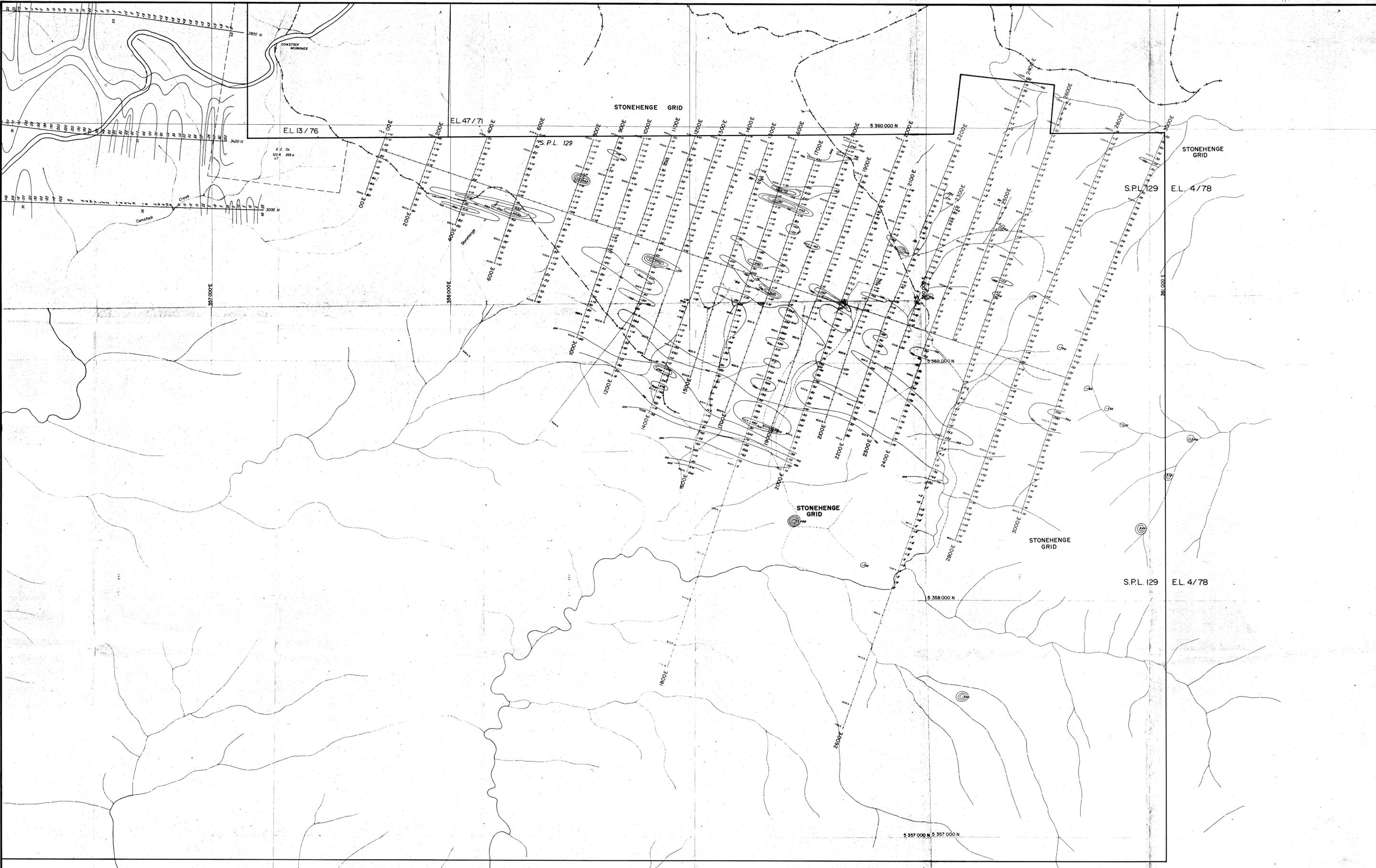
DRAFTSMAN: S.F.

DATE: July, 83

REVISIONS:

FILE NO.:

FIG. 2



502342 83-2052

GOLD FIELDS EXPLORATION PTY. LIMITED

STONEHENGE GRID
SOIL GEOCHEMISTRY
COPPER IN P.P.M.

CONTOURS 100,300,500,1000

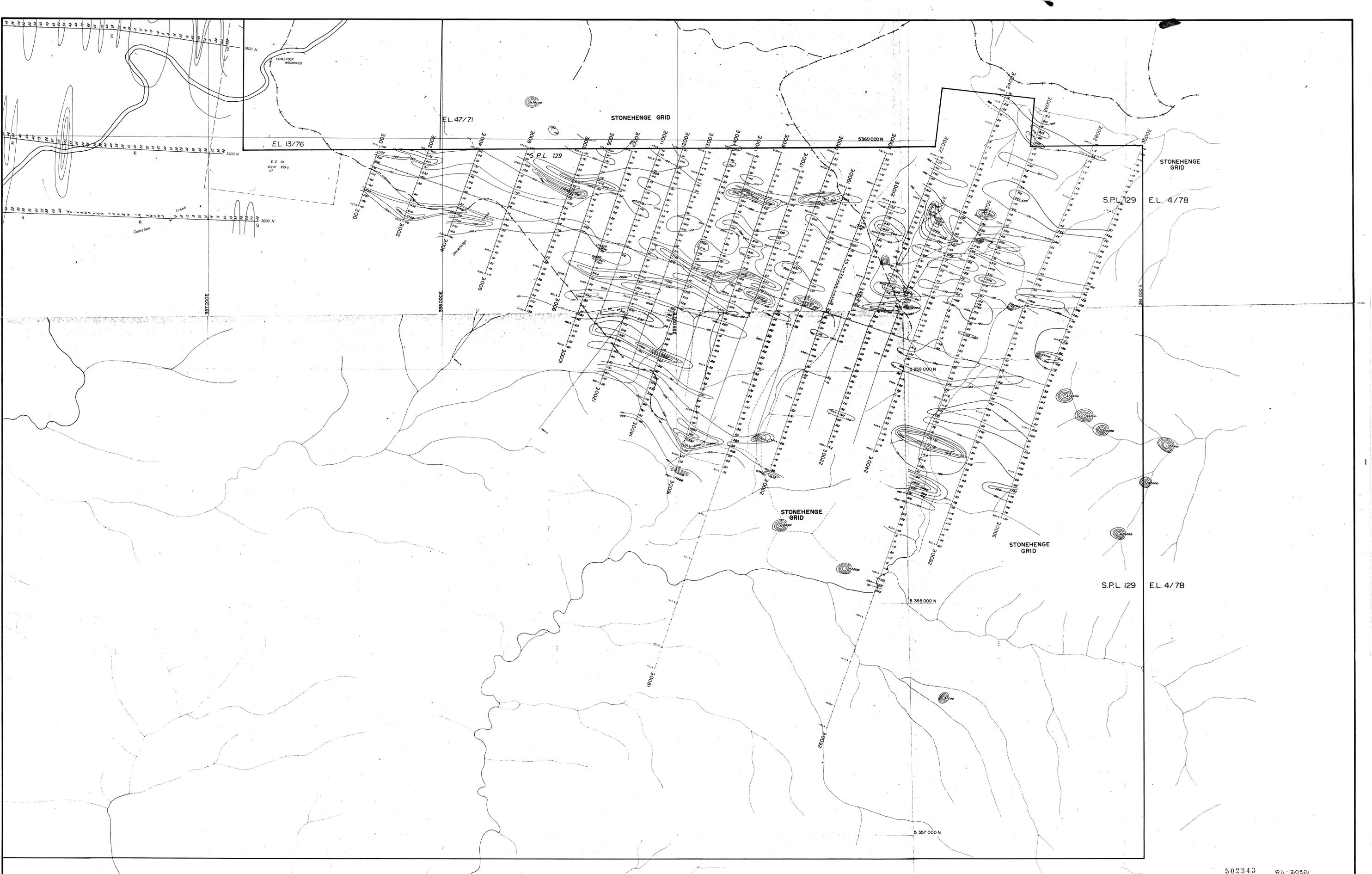
SCALE 1:5000

5 cm

ZEEMAN DIV 1 ZEEMAN DIV 2
 ZEEMAN DIV 3 ZEEMAN DIV 4

N.S. = No Sample

DRAWN BY: P.K.
DRAFTSMAN: S.F.
DATE: April 83
REVISIONS:
FILE NO.
FIG. 4



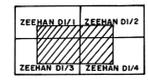
502343 82-2052

GOLD FIELDS EXPLORATION PTY LIMITED

STONEHENGE GRID
SOIL GEOCHEMISTRY
LEAD IN P.P.M.

CONTOURS 100,500,1000,2000,5000

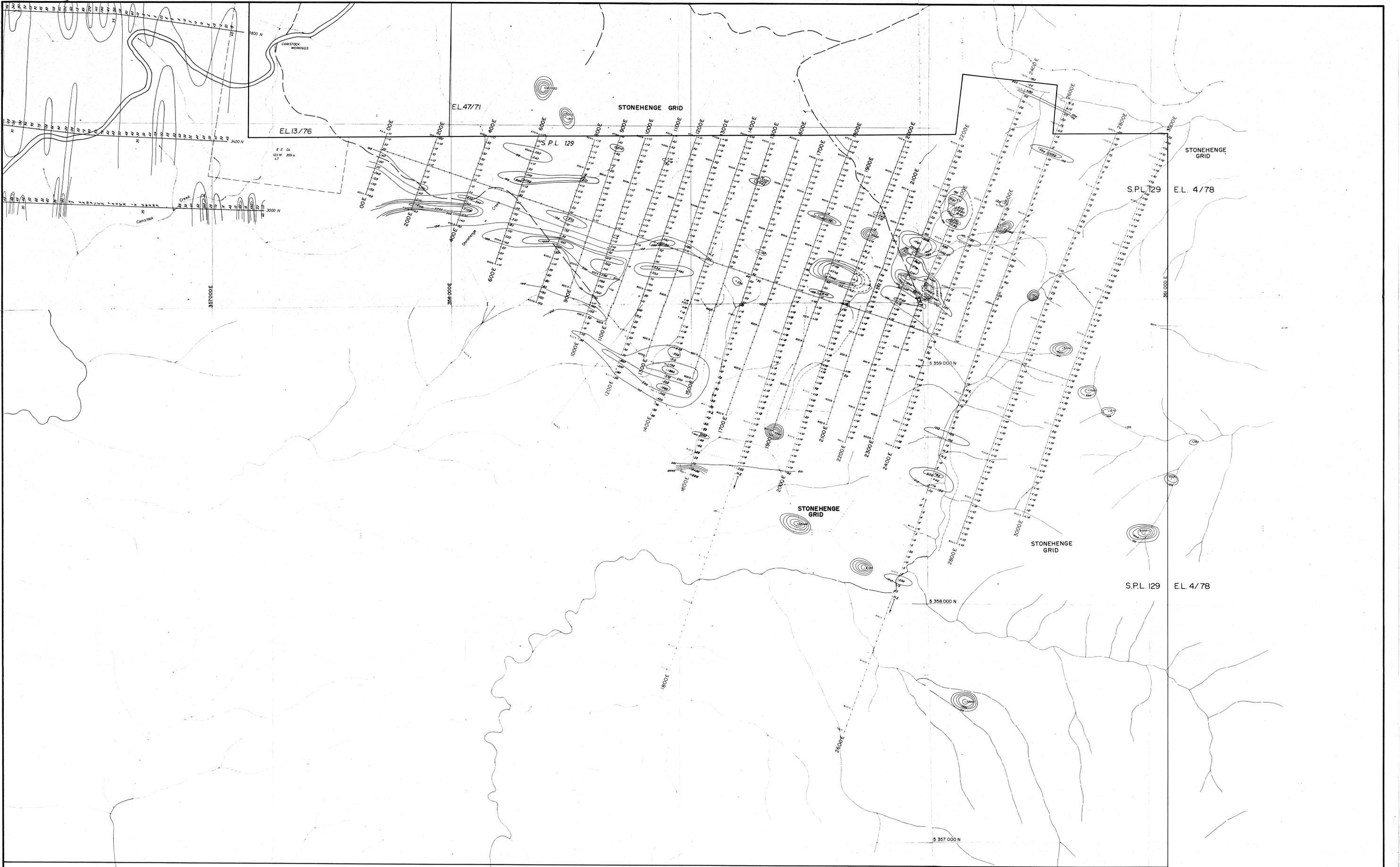
SCALE 1:5000



NS = No Sample

DRAWN BY	P.K.
DRAFTSMAN	S.F.
DATE	APRIL 83
REVISIONS	
FILE NO.	

FIG. 5



502344

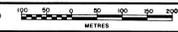
87-2052

GOLD FIELDS EXPLORATION PTY. LIMITED

STONEHENGE GRID
SOIL GEOCHEMISTRY
ZINC IN P.P.M.

CONTOURS 100, 500, 1000, 2000, 5000

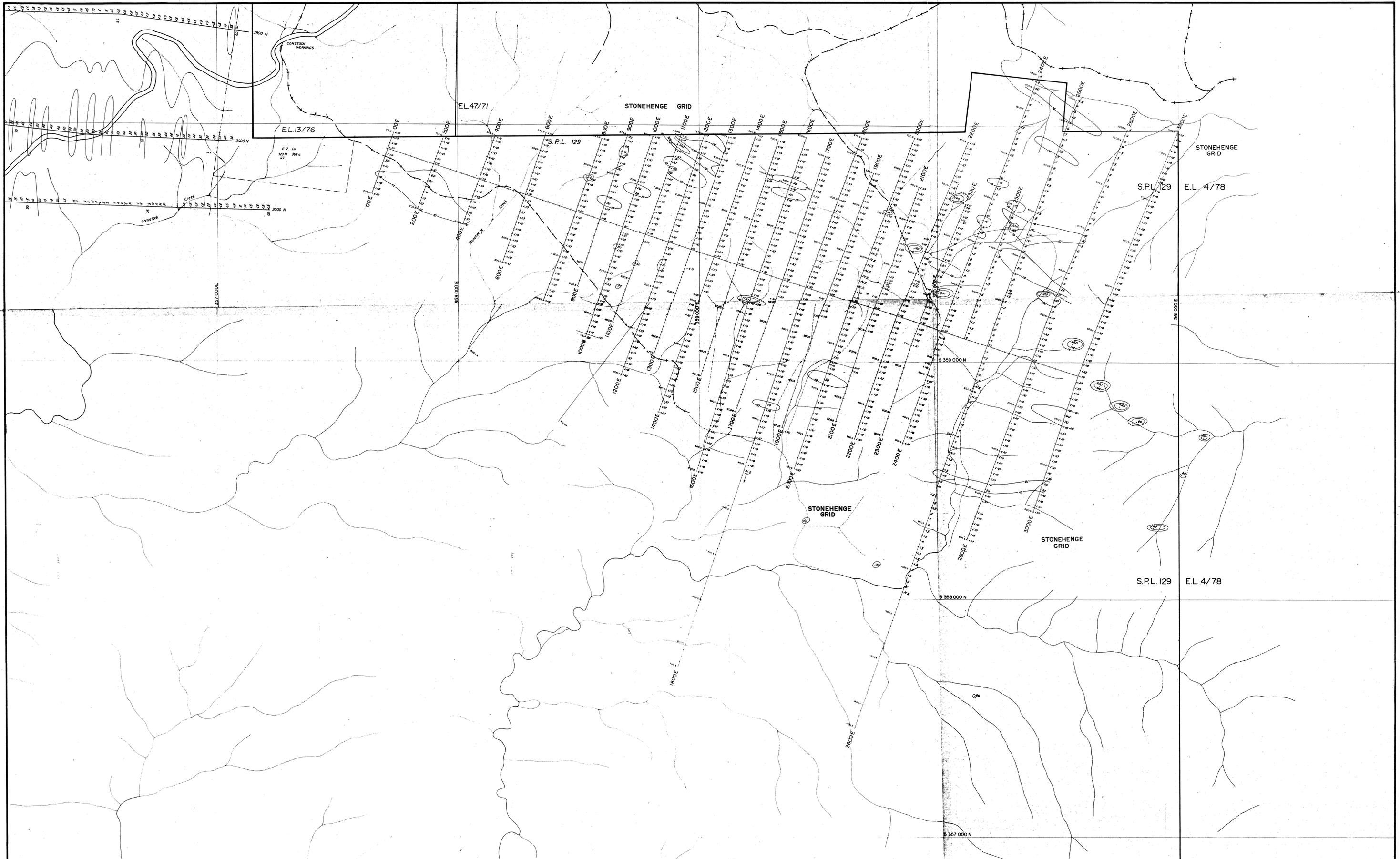
SCALE 1:5000



DRAWN BY	P.K.
DRAFTSMAN	S.F.
DATE	April 83
REVISIONS	
FILE NO.	
FIG. 6	

ZEEHAN D1/1	ZEEHAN D1/2
ZEEHAN D1/3	ZEEHAN D1/4

N.S. = No Sample



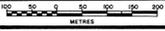
502345 83-2052

GOLD FIELDS EXPLORATION PTY. LIMITED

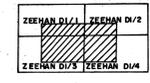
STONEHENGE GRID
SOIL GEOCHEMISTRY

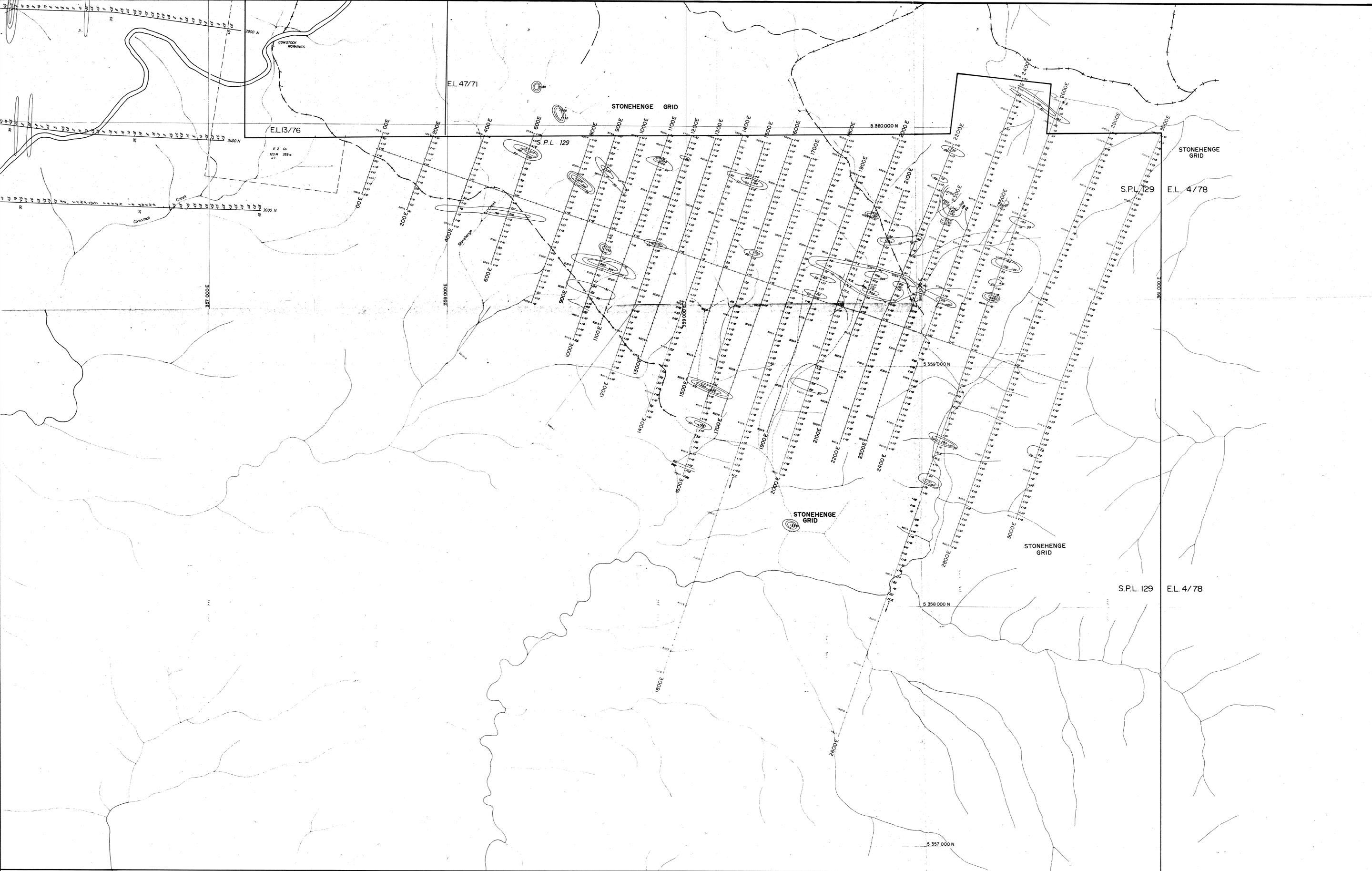
TIN IN P.P.M.
CONTOURS 10, 100

SCALE 1:5000



DRAWN BY: R.K.
DRAFTSMAN: S.F.
DATE: April 83
REVISIONS:
FILE NO.:
FIG. 7



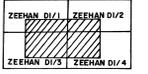


502346 83-2052

GOLD FIELDS EXPLORATION PTY. LIMITED

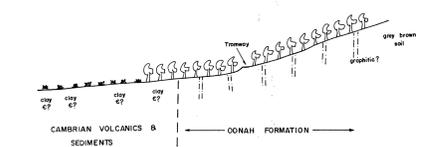
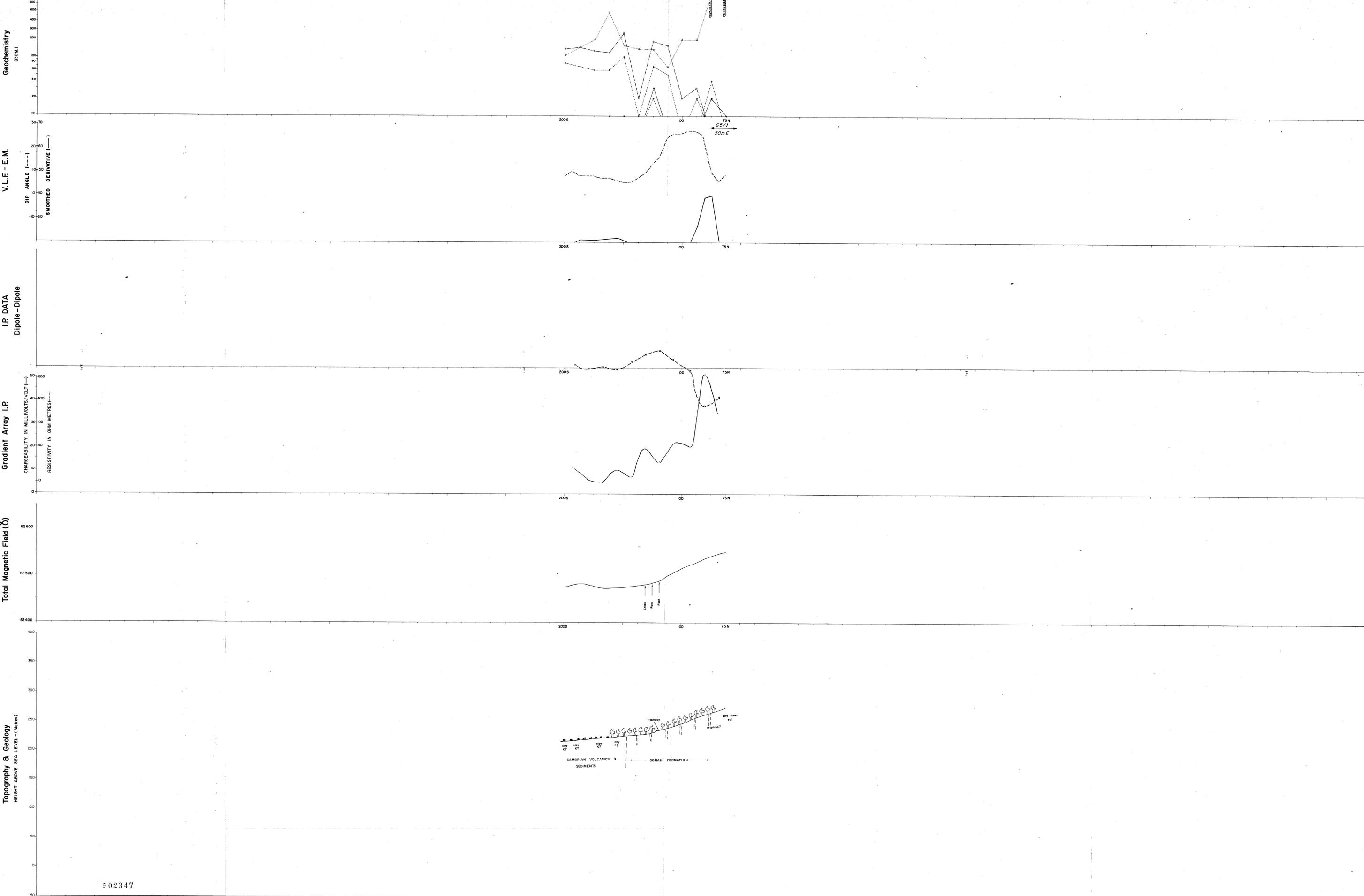
STONEHENGE GRID
SOIL GEOCHEMISTRY
ARSENIC IN P.P.M.

CONTOURS 50, 100, 300
 SCALE 1:5000



N.S. = No Sample

DRAWN BY: P.K.
DRAFTSMAN: S.F.
DATE: April 83
REVISIONS:
FILE NO.
FIG. 8



502347

GOLD FIELDS EXPLORATION PTY. LIMITED

S.P.L. 129 - STONEHENGE GRID
LINE 00
LOOKING N.W.

SCALE 1:2000 METRES

DRAWN	PK.
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	9
	007

I.P. DATA

V.L.F.-E.M.

← G5/1 Dipole No. / Dipole Grade
50mE Position

MAGNETICS

5 cm

GEOCHEMISTRY

Sh
Cu
Pb
Zn
As
W63

GEOLOGY

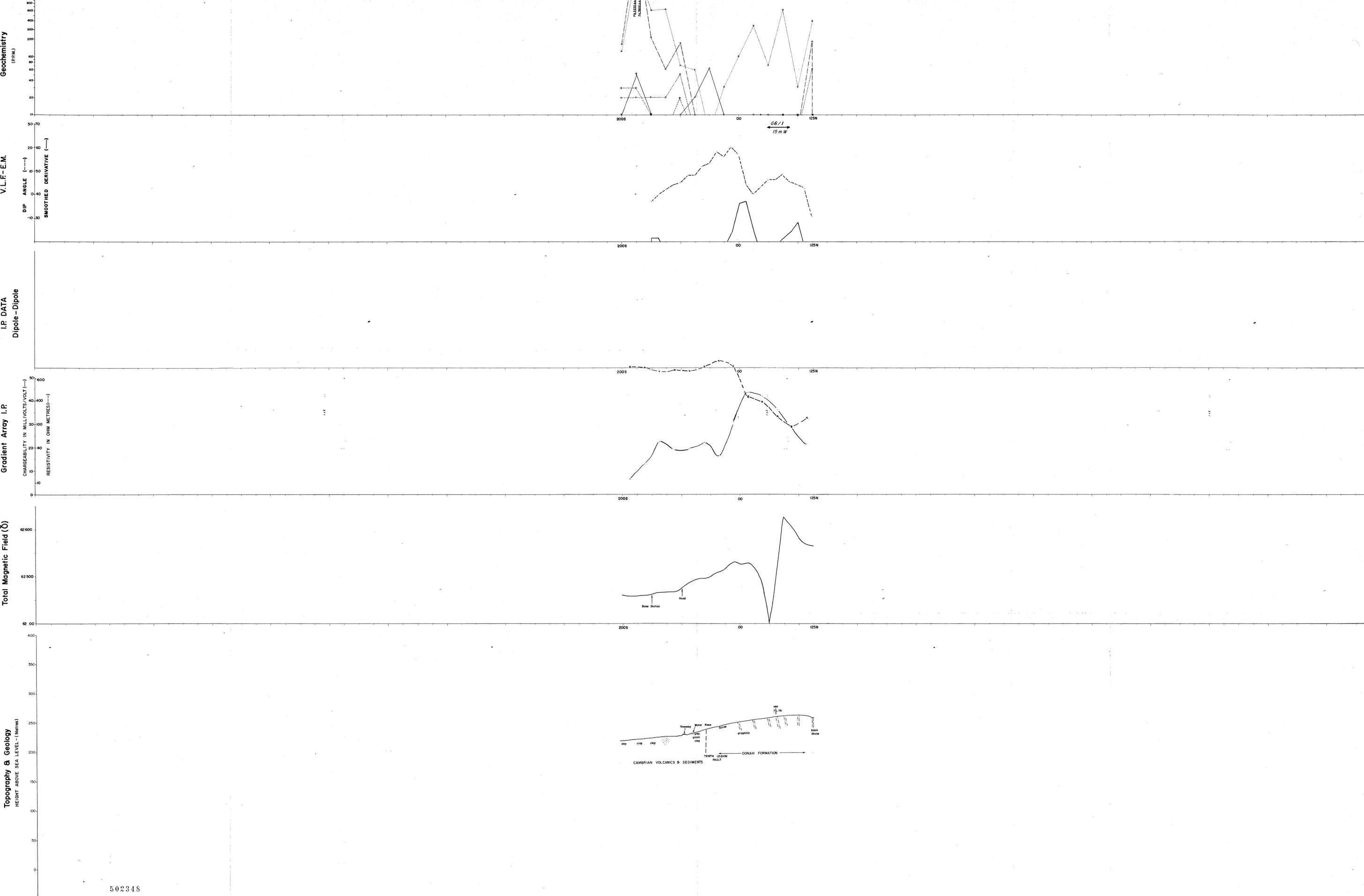
Donah Formation - Precambrian

Shale
Siltstone
Sandstone

Cambrian - Dundas Group?

Basic Lavas
Shale
Siltstone

Grits
Gogoon
Bedding
Cleavage



502348

93-205N

DRAWN		PK	
TRACED		S.F.	
DATE		Feb. 83	
SCALE		1:2000	
FIG. NO.		10	
SCALE		1:2000 METRES	
S.P.L. 129 - STONEHENGE GRID		LINE 200E	
LOOKING N.W.			
SCALE 1:2000 METRES			

008

I.P. DATA

V.L.F.-E.M.

← 66/1 → Dipole No. / Dipole Grade
15m W Position

MAGNETICS

← 66/1 → 5cm

GEOCHEMISTRY

Sn
Cu
Pb
Zn
As
Mo3

GEOLOGY

Oonah Formation - Precambrian

- Shale
- Siltstone
- Sandstone

Cambrian - Dundas Group?

- Basic Lavas
- Shale
- Siltstone

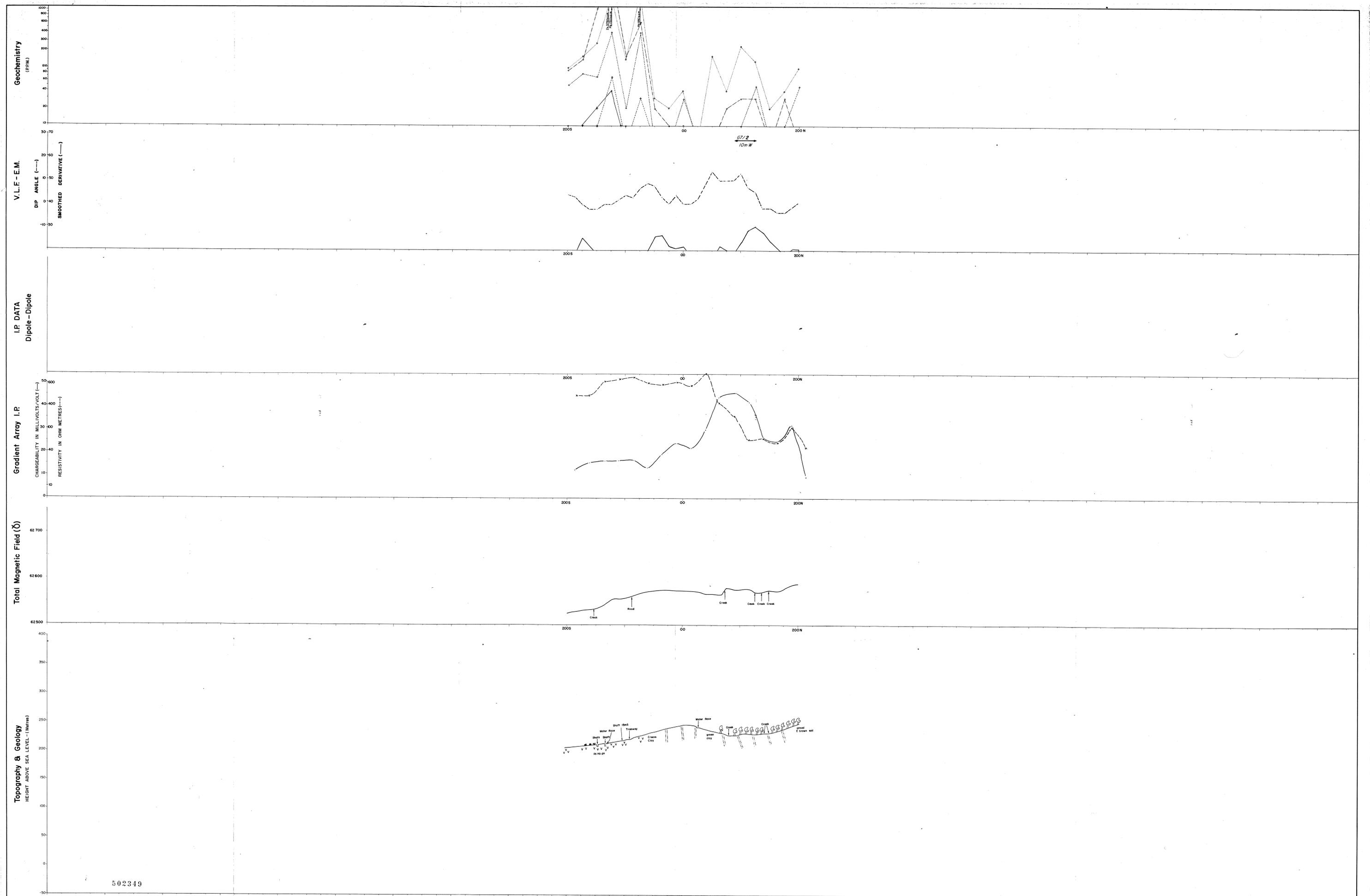
Grits

Gossan

100 Bedding

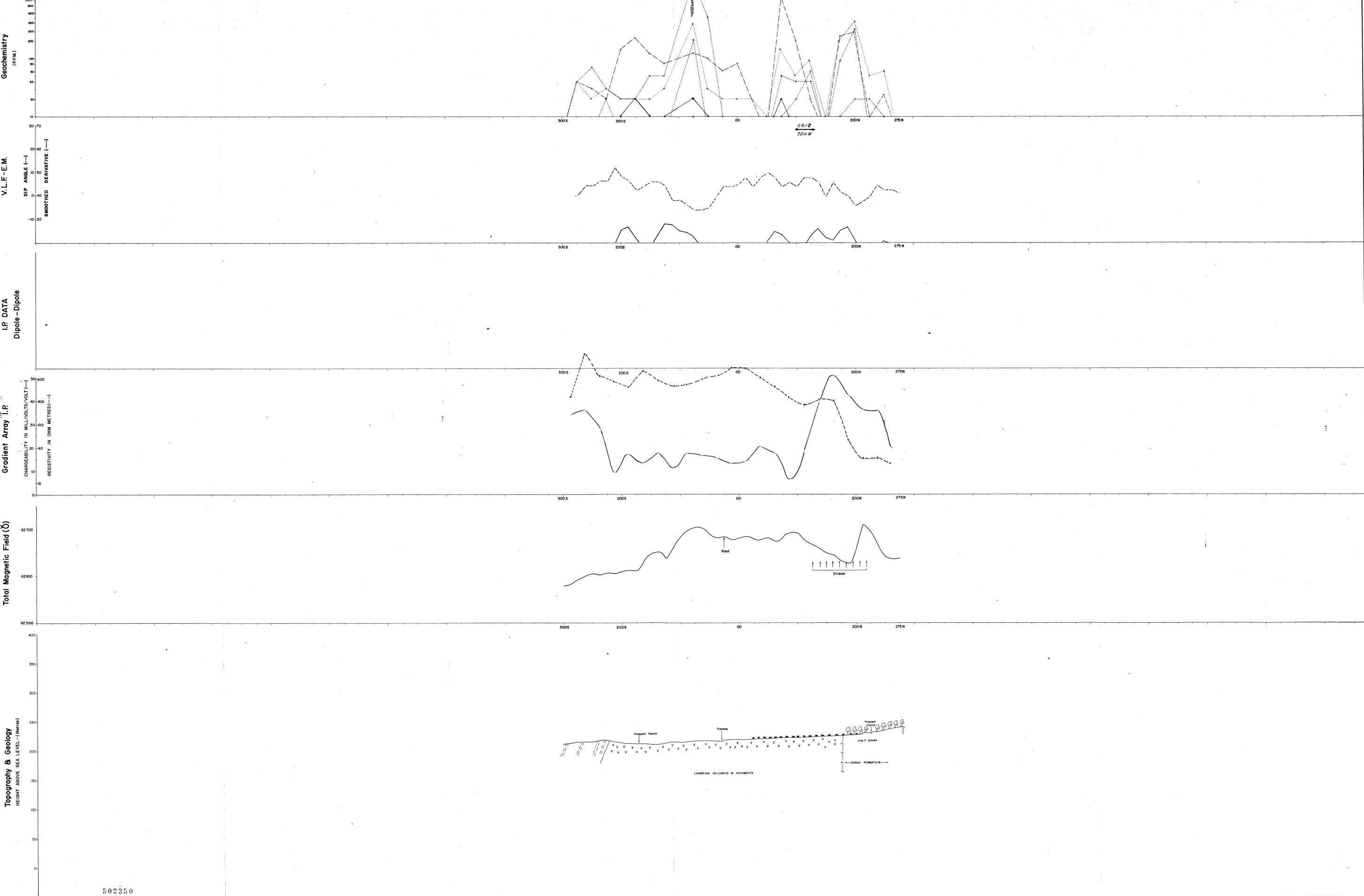
50 Cleavage

All Bearings Magnetic



502349

GOLD FIELDS EXPLORATION PTY. LIMITED S.P.L. 129-STONEHENGE GRID LINE 400 E LOOKING N.W. SCALE 1:2000 METRES		DRAWN: S.F. TRACED: S.F. DATE: Feb. 83 SCALE: 1:2000 FIG. NO: 11 009	I.P. DATA V.L.F.-E.M. 67/2 Diphem No./Diphem Grade 10mW Position	MAGNETICS 5cm All Bearings Magnetic	GEOCHEMISTRY Sn Cu Pb Zn As Mo Wb3	GEOLOGY Qoong Formation - Precambrian Shale Siltstone Sandstone Cambrian - Dundas Group? Basic Lavas Shale Siltstone Grits Gossan Bedding Cleavage
---	--	---	--	--	--	---



502350

GOLD FIELDS EXPLORATION PTY LIMITED
 S.P.L. 129 - STONEHENGE GRID
 LINE 600E
 LOOKING N.W.
 SCALE 1:2000 METRES

DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO	
12	
010	

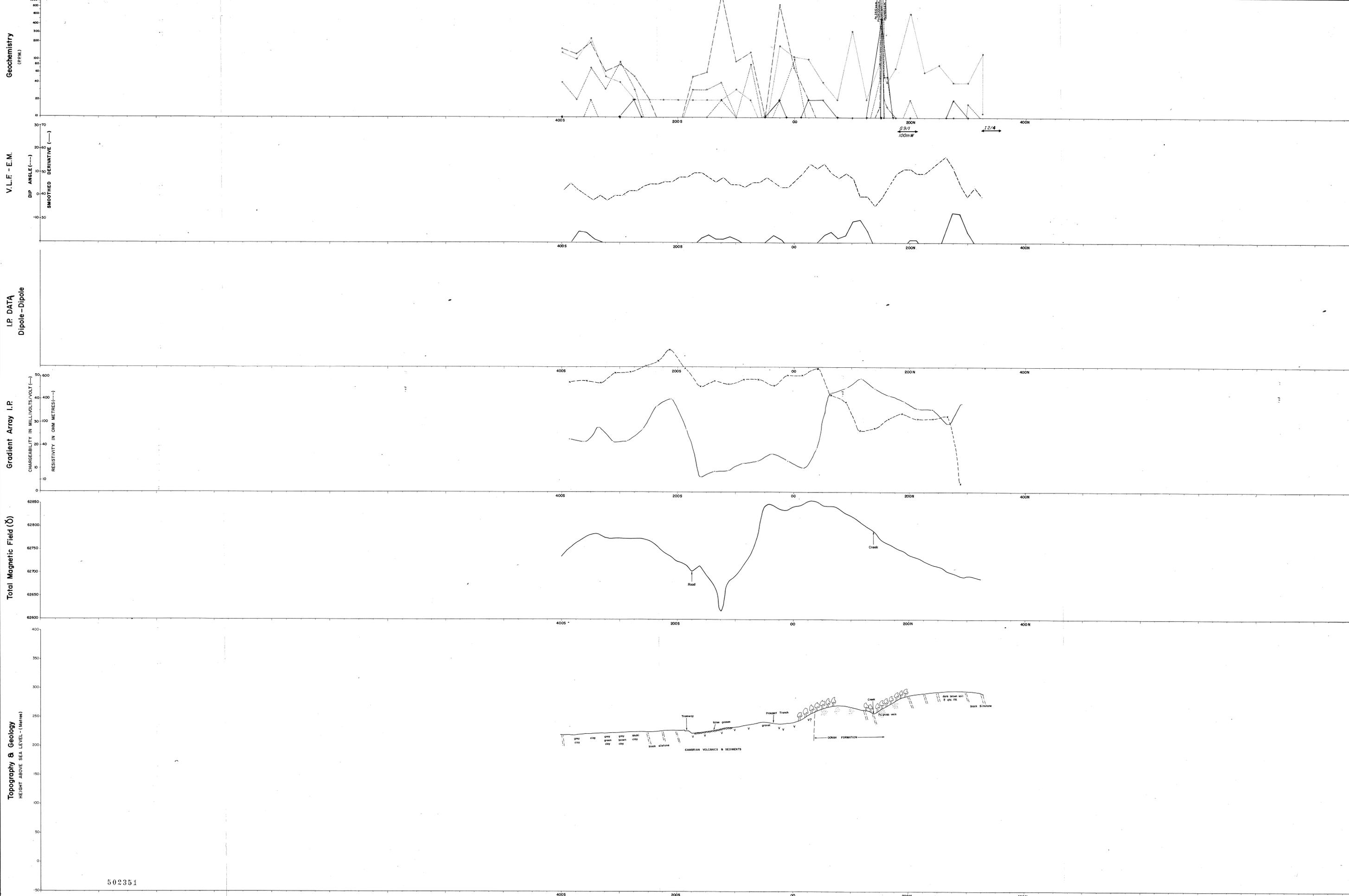
I.P. DATA
 MAGNETICS
 V.L.F.-E.M.
 ← GB/2 → Dipole No. / Dipole Grade
 ← 30mW → Position

GEOCHEMISTRY
 Sn
 Cu
 Pb
 Zn
 As
 MoS

GEOLOGY
 Onondaga Formation - Precambrian
 Shale
 Siltstone
 Sandstone

Cambrian - Dundas Group?
 Basic Lavas
 Grits
 Shale
 Siltstone

Gosson
 Bedding
 Cleavage



502351

502351

GOLD FIELDS EXPLORATION PTY. LIMITED		DRAWN	R.K.
S.P.L. 129 - STONEHENGE GRID		TRACED	S.F.
LINE 800E		DATE	Feb. 83
LOOKING N.W. ←		SCALE	1:2000
SCALE 1:2000 METRES		FIG. NO.	13
011			

I.P. DATA

MAGNETICS

V.L.F.-E.M.

Diphen No / Diphen Grade

Position

GEOCHEMISTRY

Sn

Cu

Pb

Zn

As

Mo

Mo3

GEOLOGY

Oonah Formation - Precambrian

Shale

Siltstone

Sandstone

Cambrian - Dundas Group?

Basic Lavas

Grits

Shale

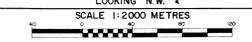
Siltstone

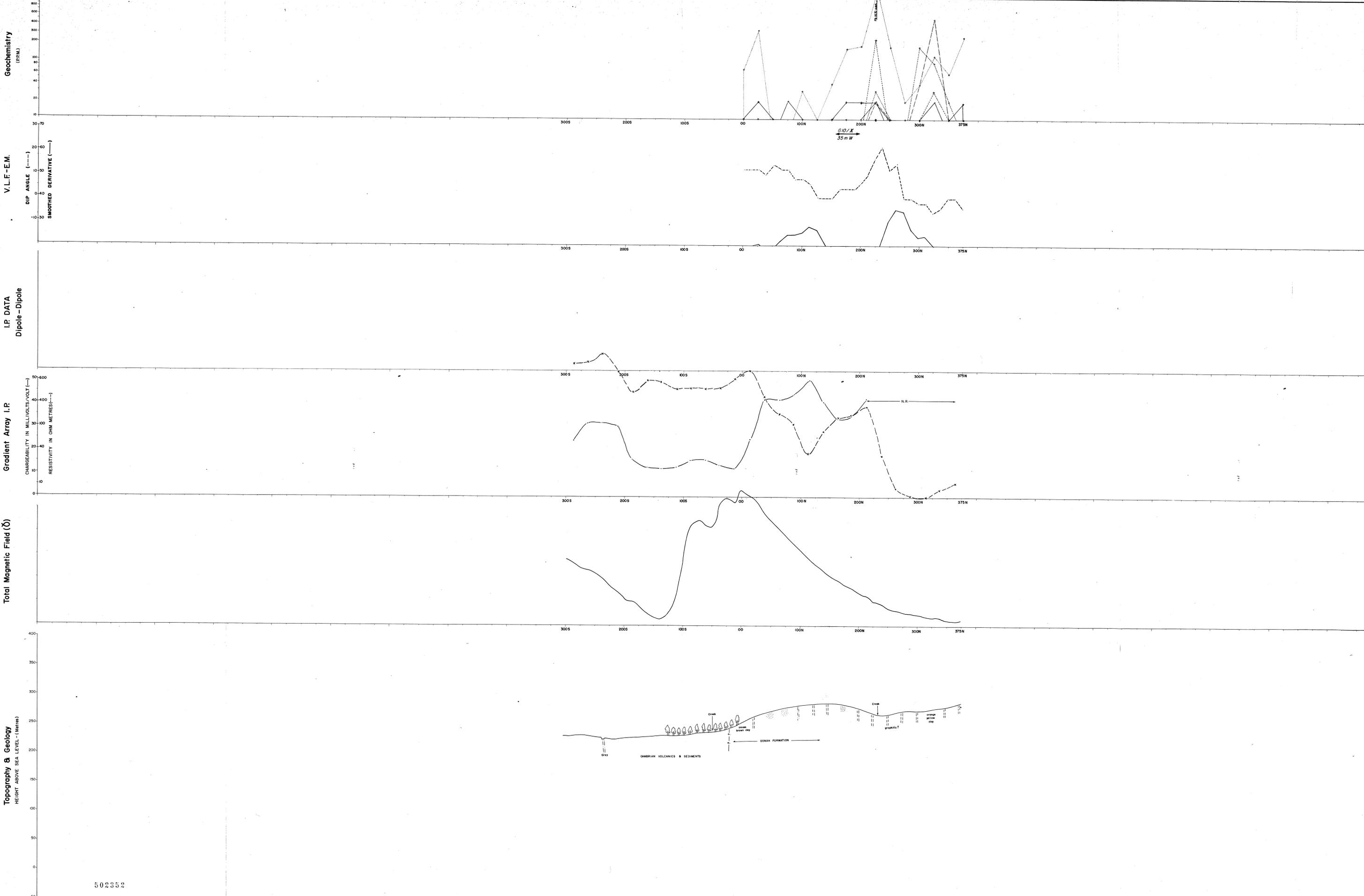
Gossan

Bedding

Cleavage

All Bearings Magnetic





502352

502352

GOLD FIELDS EXPLORATION PTY. LIMITED	DRAWN	PK
	TRACED	S.F.
	DATE	Feb. 03
	SCALE	1:2000
	FIG. NO.	14
		012

S.R.L. 129 - STONEHENGE GRID
LINE 900E
LOOKING N.W.
SCALE 1:2000 METRES

I.P. DATA

N.R. = NO READING

V.L.F.-E.M.

G10/X Dipgram No. / Dipgram Grade
35 m W Position

MAGNETICS

0 cm

GEOCHEMISTRY

Sh
Cu
Pb
Zn
As
Mo

GEOLOGY

Goonah Formation - Precambrian

- Shale
- Siltstone
- Sandstone

Cambrion - Dundas Group?

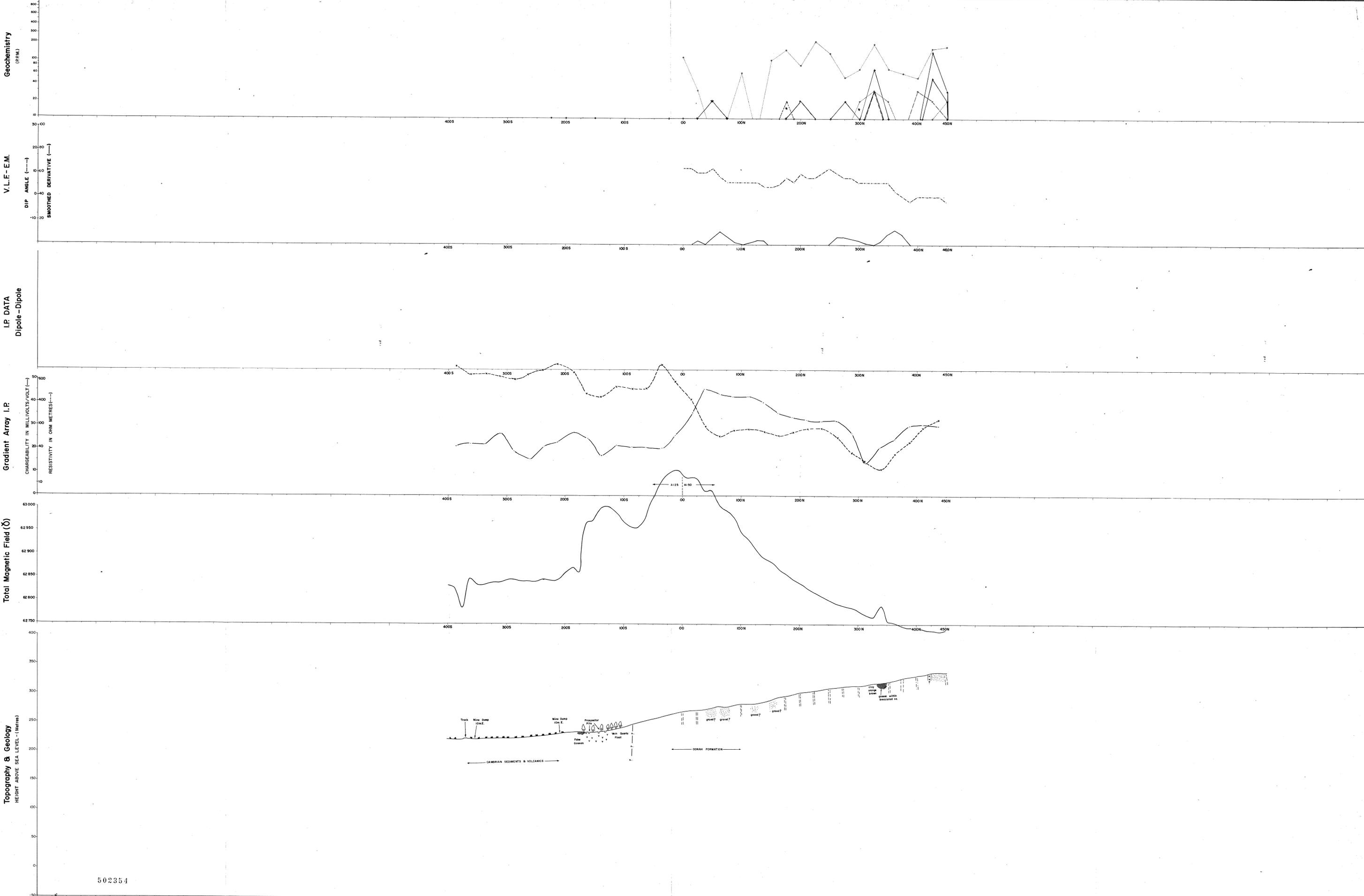
- Basic Lavas
- Grits
- Shale
- Siltstone

Gossan

Bedding

Cleavage

All Bearings Magnetic



502354

GOLD FIELDS EXPLORATION PTY. LIMITED

DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO	16
LOOKING N.W.	014

SCALE 1:2000 METRES

I.P. DATA

A: DIPOLE DISTANCE

MAGNETICS

GEOCHEMISTRY

GEOLOGY

Oonah Formation - Precambrian

- Shale
- Siltstone
- Sandstone

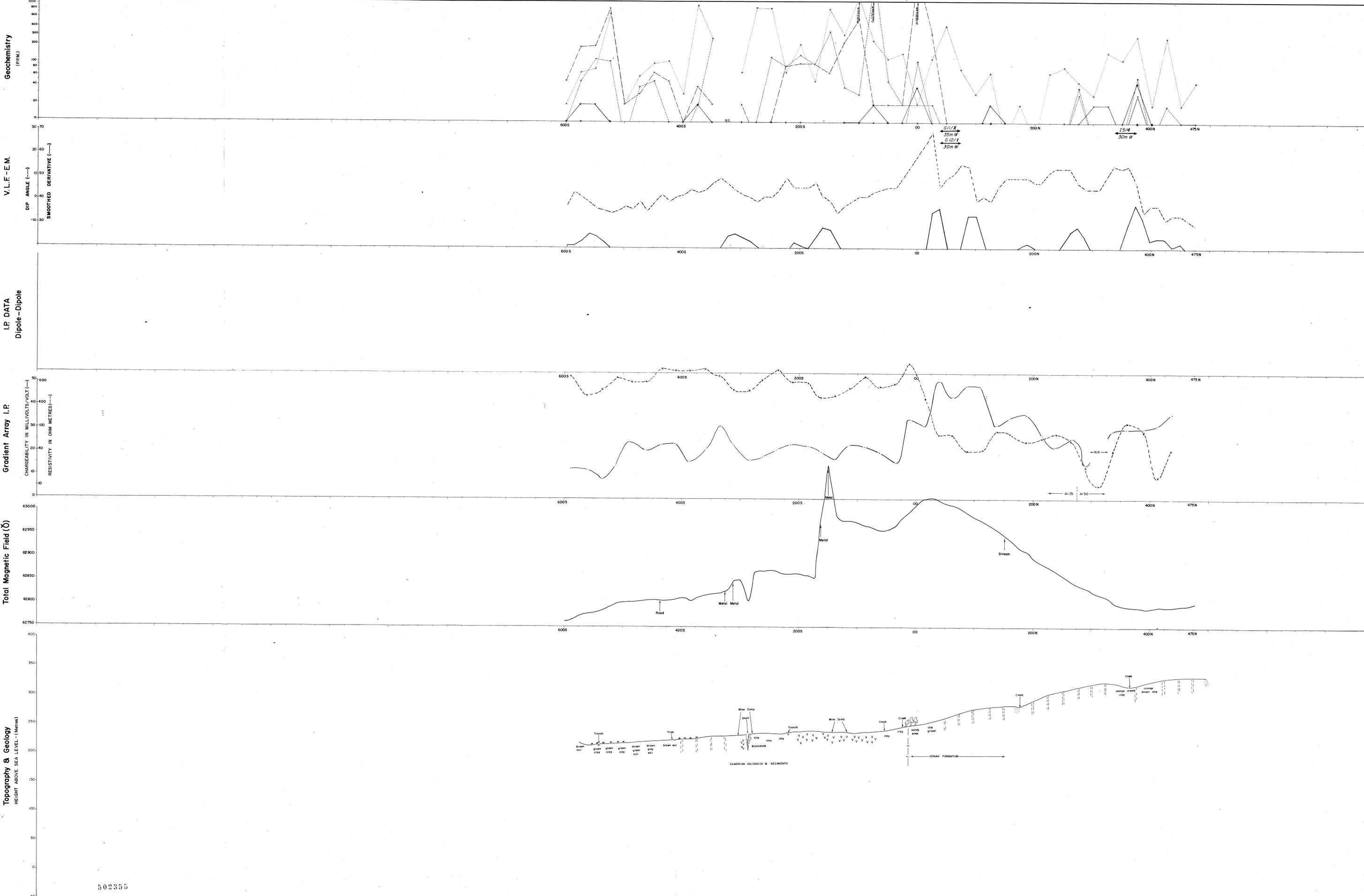
Cambrian - Dundas Group?

- Basic Lavas
- Grits
- Shale
- Siltstone

Gossion

Bedding

Cleavage



502355

GOLD FIELDS EXPLORATION PTY. LIMITED

DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	17
	015

S.R.L. 129 - STONEHENGE GRID
LINE 1200 E
LOOKING N.W.
SCALE 1:2000 METRES

I.P. DATA
A = DIPOLE DISTANCE
N.R. = NO READING

MAGNETICS
5 cm

V.L.F.-E.M.
15/4 Dipgram No. / Dipgram Grade
30m W Position

GEOCHEMISTRY

Sn	
Cu	
Pb	
Zn	
As	N.S. = No Sample
Mo	

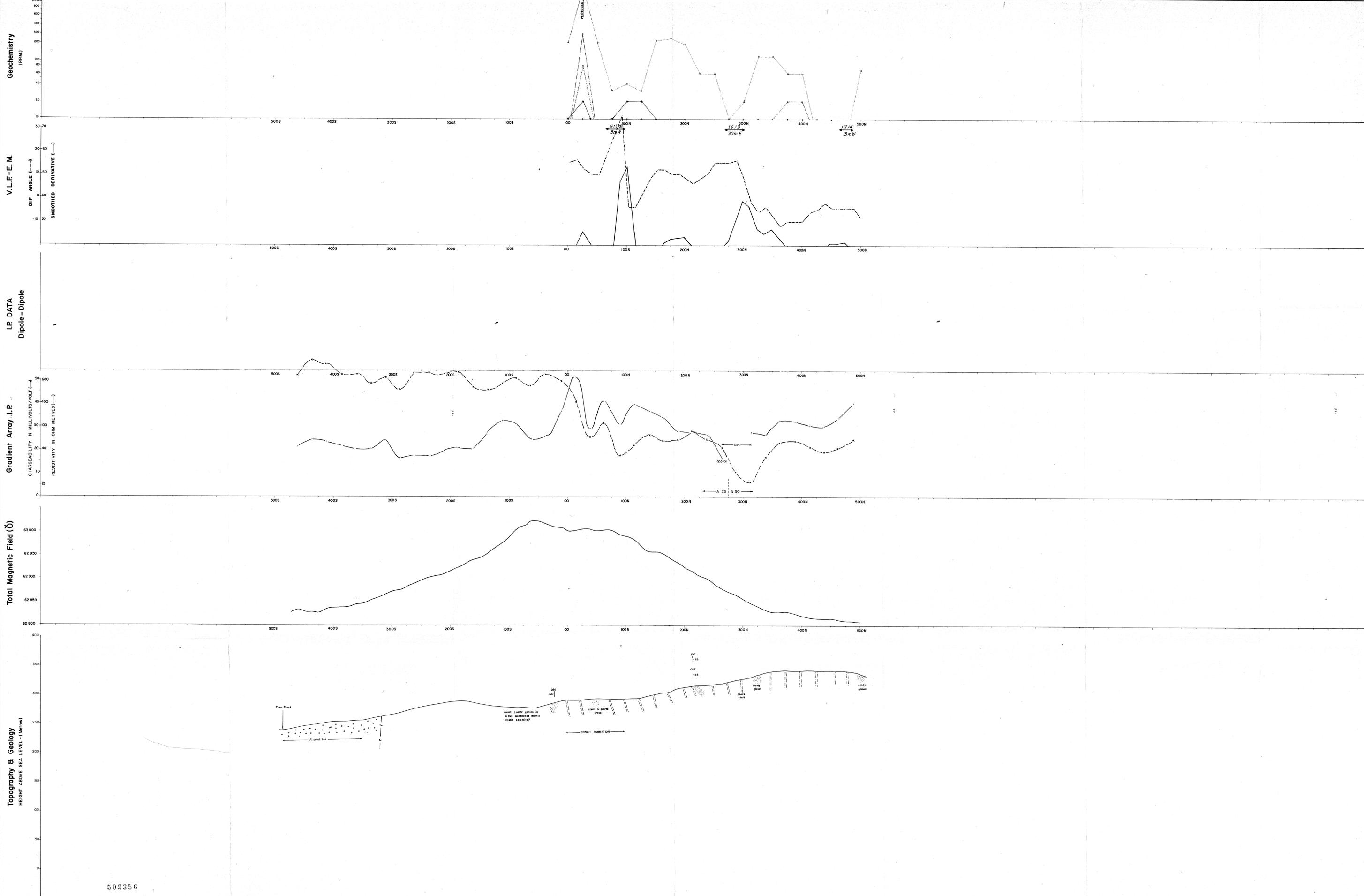
GEOLOGY

Shale	Ordovician Formation - Precambrian
Siltstone	
Sandstone	

Cambrian - Dundas Group?

Basic Lavas	Grits
Shale	
Siltstone	

Gossan
Bedding
Cleavage



502356

GOLD FIELDS EXPLORATION PTY. LIMITED

DRAWN	R.K.
TRACED	S.F.
DATE	Feb. 63
SCALE	1:2000
FIG. NO.	18
	016

S.R.L. 129-STONEHENGE GRID
LINE 1300E
LOOKING N.W.

SCALE 1:2000 METRES

I.P. DATA
A = DIPOLE DISTANCE
NR: NO READING

V.L.F.-E.M.
16/3 Dipole No./ Dipole Grade
30m E Position

MAGNETICS
5m

GEOCHEMISTRY

Sn
Cu
Pb
Zn
As
Wc3

GEOLOGY

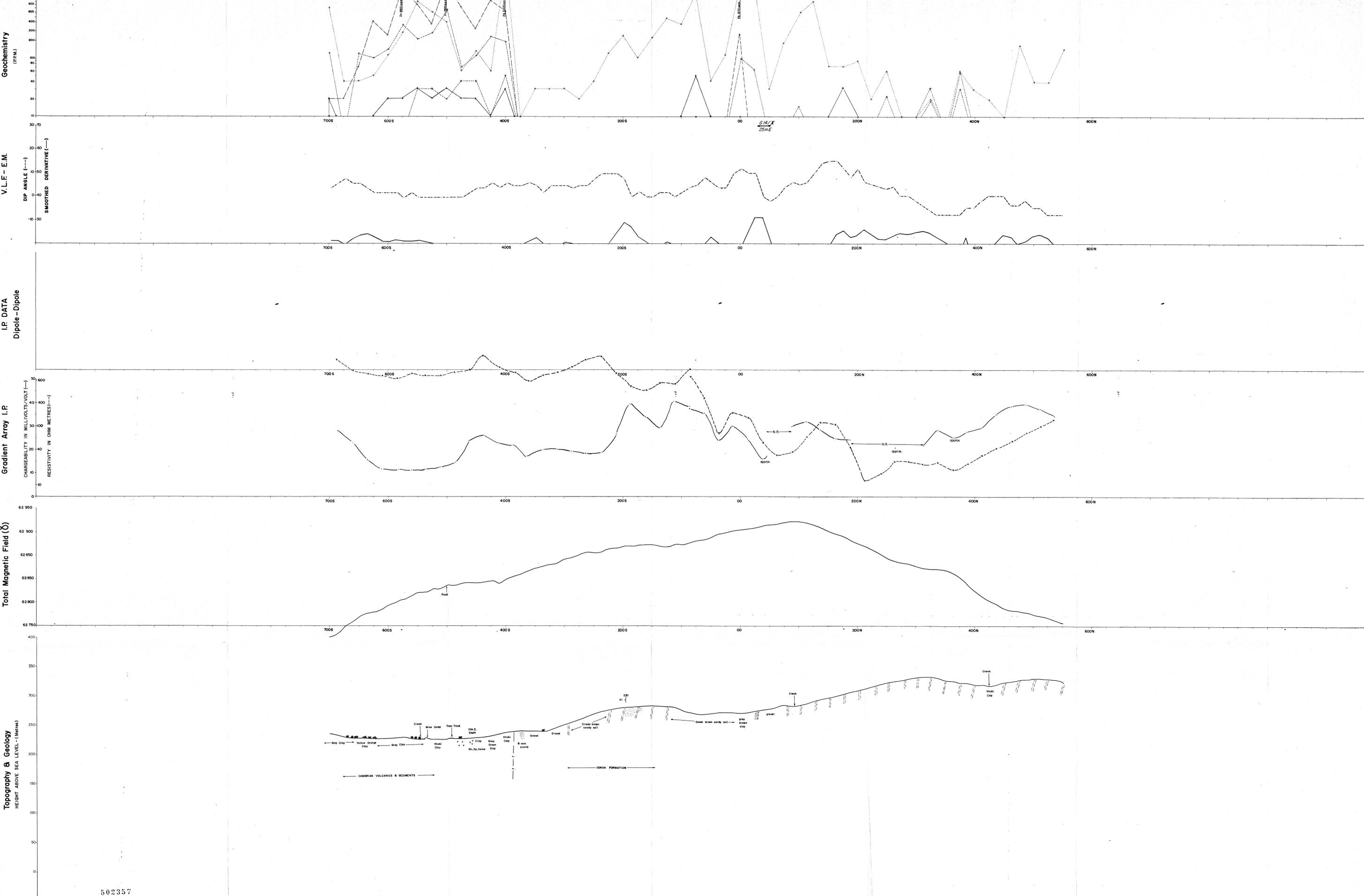
Donah Formation - Precambrian	Shale
Siltstone	Sandstone

Cambrian - Dundas Group?

Basic Lavas	Grits
Shale	Siltstone

Gossan	Bedding	Cleavage
--------	---------	----------

All Bearings Magnetic



502357

GOLD FIELDS EXPLORATION PTY LIMITED
 S.R.L. 129 - STONEHENGE GRID
 LINE 1400E
 LOOKING N.W.
 SCALE 1:2000 METRES

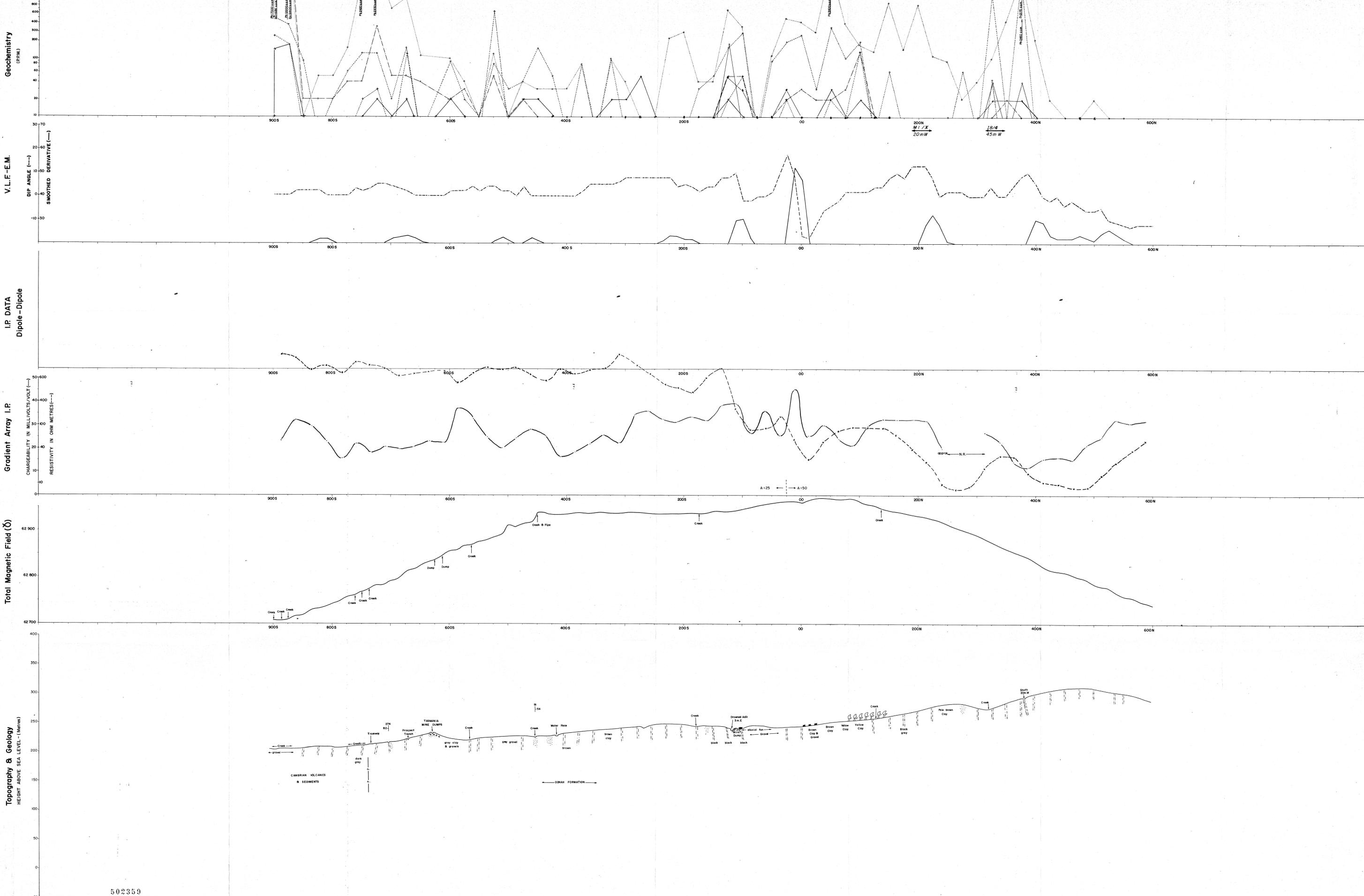
83-2052	
DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO	19
	017

I.P. DATA
 NR. = NO READING
 5 km
V.L.F. - E.M.
 G.M./X Dighem No./ Dighem Grade
 Position

GEOCHEMISTRY
 Sn
 Cu
 Pb
 Zn
 As
 MoS

GEOLOGY
 Onondaga Formation - Precambrian
 Shale
 Siltstone
 Sandstone
 Cambrian - Dundas Group?
 Basic Lavas
 Shale
 Siltstone
 Grits
 Gosson
 Bedding
 Cleavage
 All Bearings Magnetic

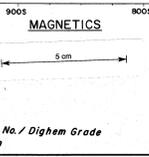




502359
 SP-2052
 GOLD FIELDS EXPLORATION PTY LIMITED
 S.P.L. 129-STONEHENGE GRID
 LINE 1600 E
 LOOKING N.W.
 SCALE 1:2000 METRES
 019

DRAWN	P.L.
TRACED	S.E.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	21

I.P. DATA
 A = DIPOLE DISTANCE
 N.R.: NO READING
 V.L.F.-E.M.
 Dipem No. / Dipem Grade
 Position



MAGNETICS

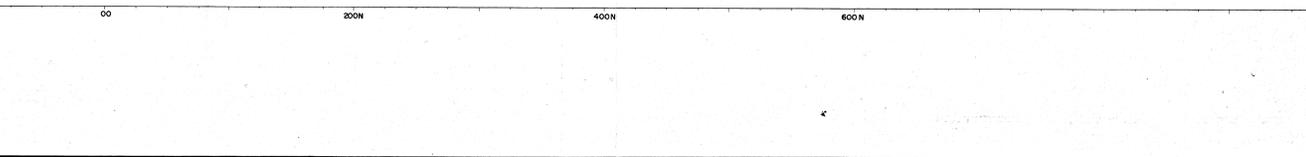
Sn	Shale
Cu	Siltstone
Pb	Sandstone
Zn	
As	
Mo	

GEOLOGY

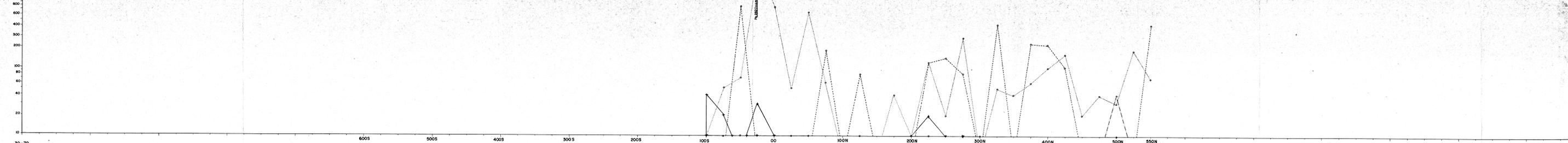
Donoh Formation - Precambrian	Basic Lavas
Shale	Grits
Siltstone	
Sandstone	

Cambrion - Dundas Group ?

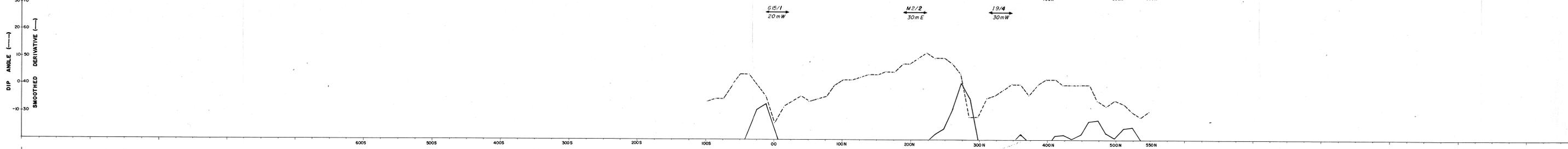
Shale	Gossan
Siltstone	Bedding
	Cleavage
	All Magnetic Bearings



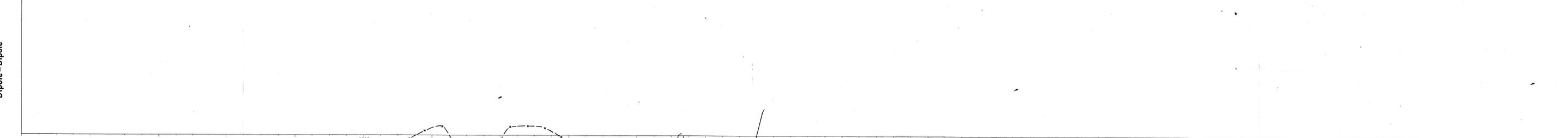
Geochemistry (PPM)



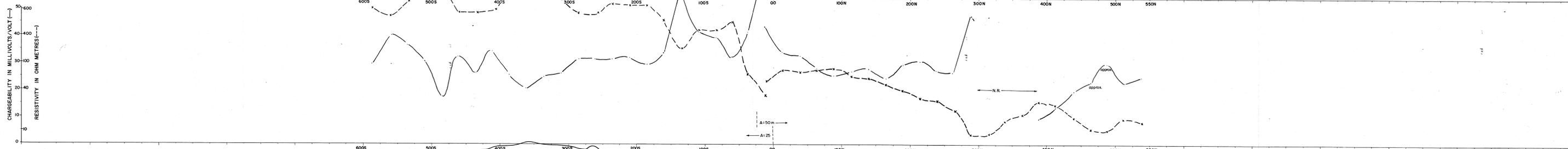
V.L.F.-E.M.



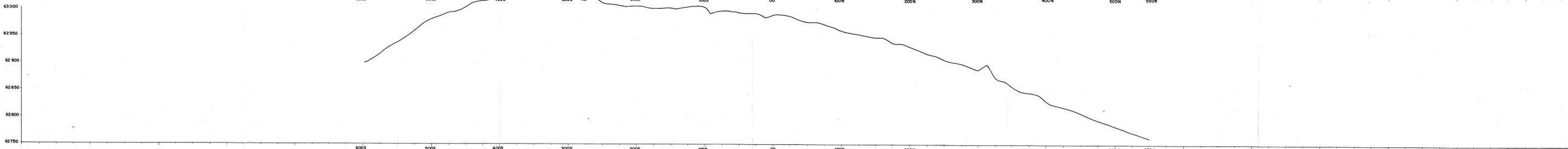
I.P. DATA Dipole-Dipole



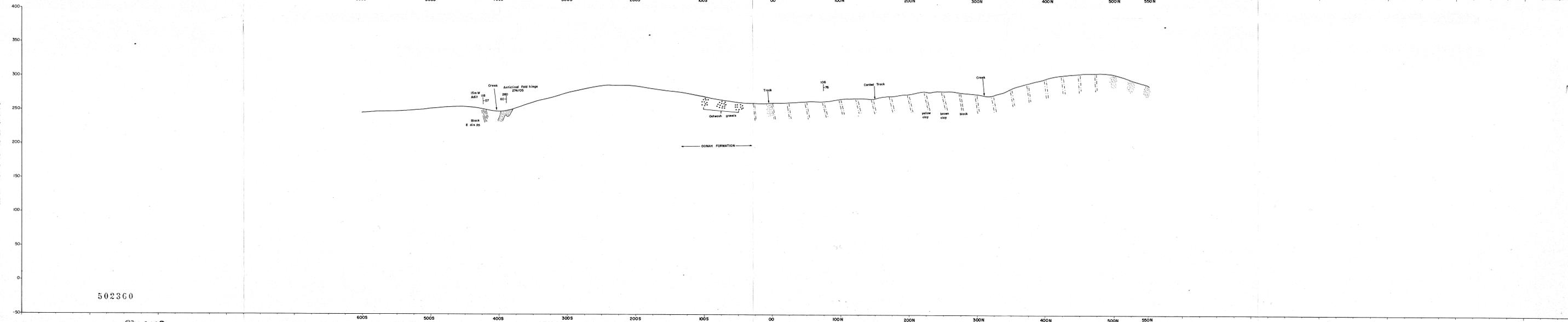
Gradient Array I.P.



Total Magnetic Field (G)



Topography & Geology



502360

GOLD FIELDS EXPLORATION PTY LIMITED

DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	22

S.R.L. 129-STONEHENGE GRID
LINE 1700E
LOOKING N.W.
SCALE 1:2000 METRES

020

I.P. DATA

A = DIPOLE DISTANCE
N.R. = NO READING

V.L.F.-E.M.
515/1
20m W
Dipole No./ Dipole Grade
Position

MAGNETICS

5cm

GEOCHEMISTRY

Sn
Cu
Pb
Zn
As
Mo

GEOLOGY

Oonah Formation - Precambrian

- Shale
- Siltstone
- Sandstone

Cambrian-Dundas Group?

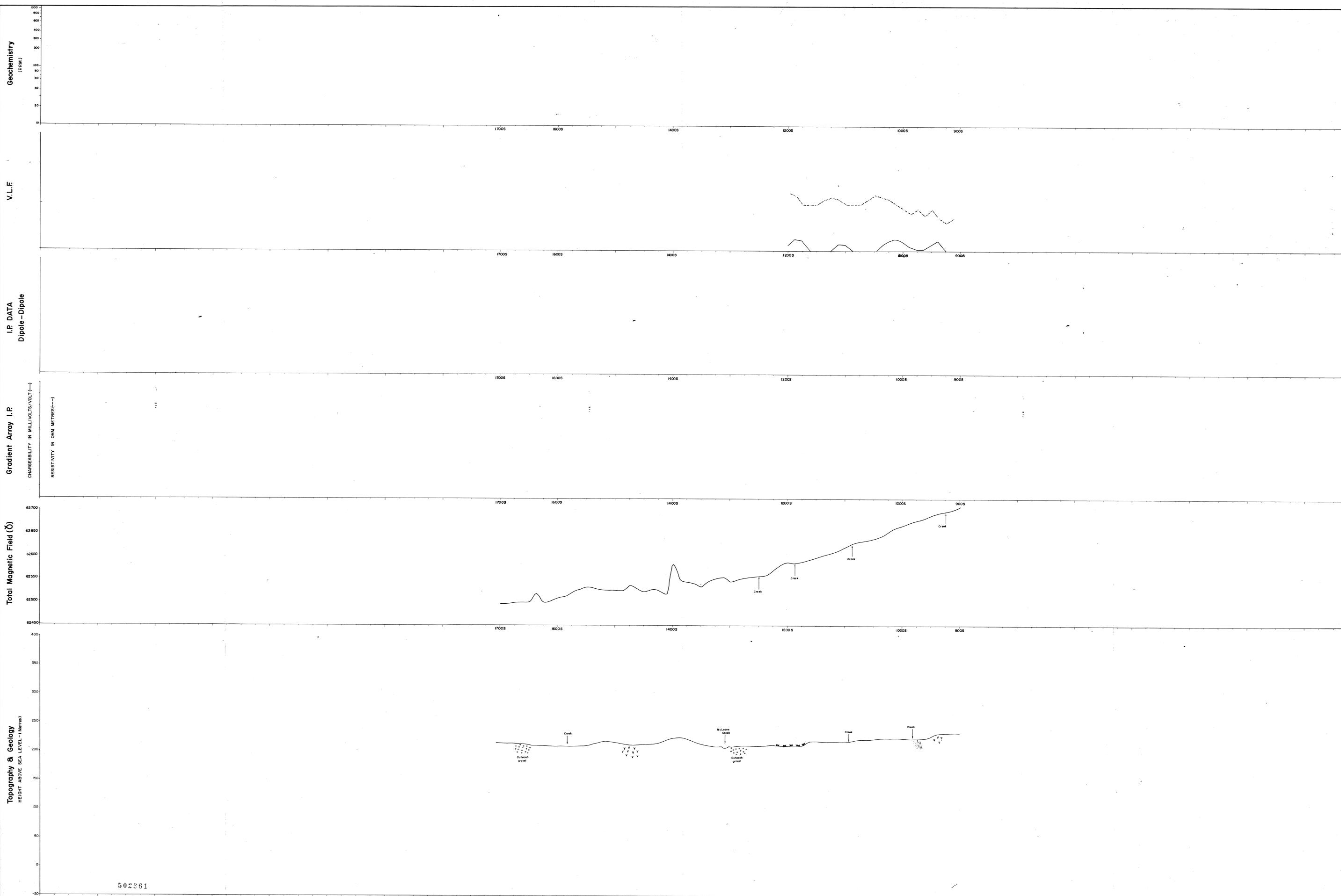
- Basic Lavas
- Shale
- Siltstone

Gossion

Bedding

Cleavage

All Bearings Magnetic



502361

GOLD FIELDS EXPLORATION PTY LIMITED		DRAWN	PK
83-2052		TRACED	S.F.
S.P.L. 129 - STONEHENGE GRID		DATE	Feb. 83
LINE 1800E (1700S-900S)		SCALE	1:2000
SCALE 1:2000 METRES		FIG. NO	23 (P)
LOOKING N.W.			021

I.P. DATA

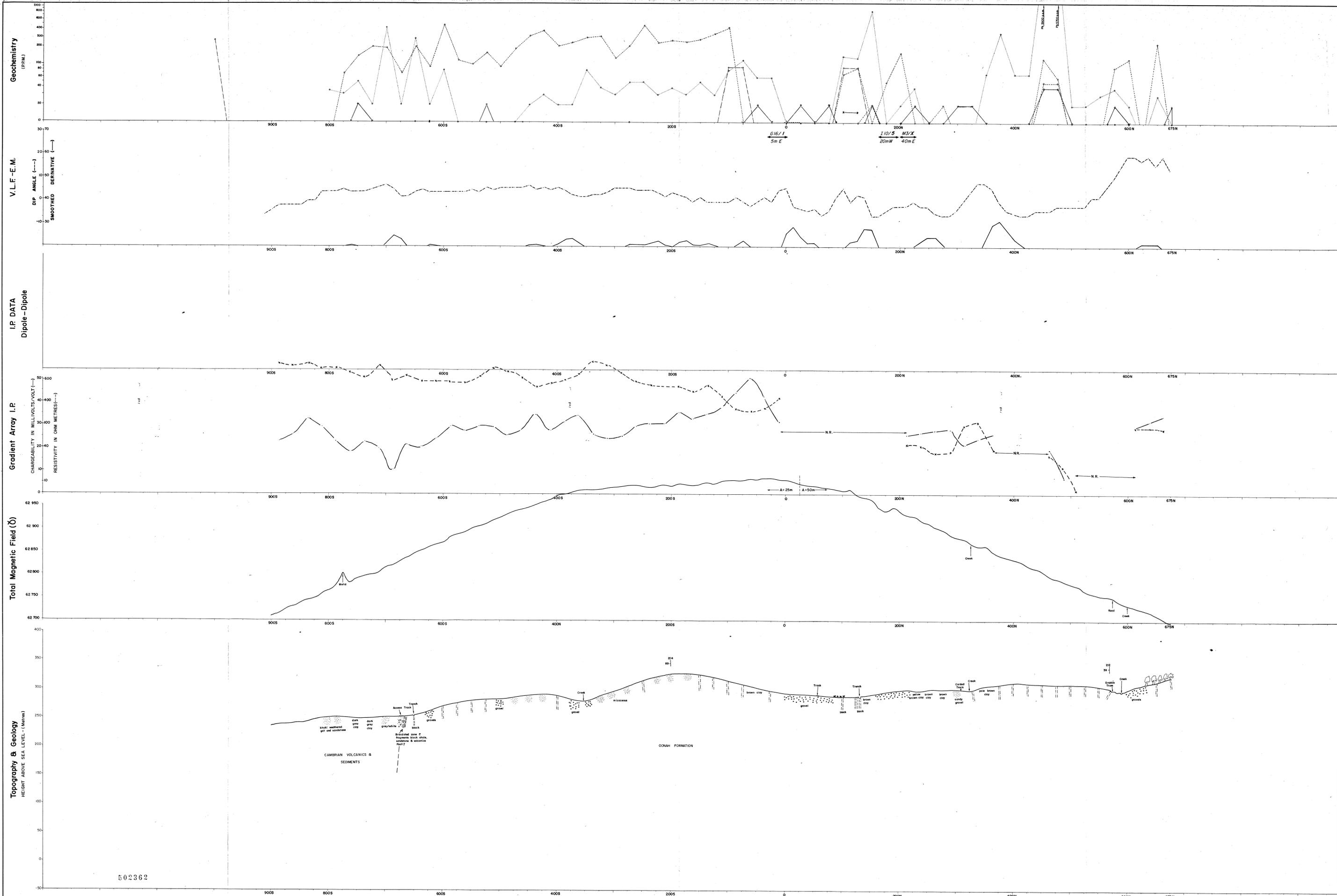
MAGNETICS

GEOCHEMISTRY

- Sn
- Cu
- Pb
- Zn
- As
- MoS

GEOLOGY

Shale	Basic Lavas	Grits	Gossan
Siltstone	Shale	Bedding	Cleavage
Sandstone	Siltstone		

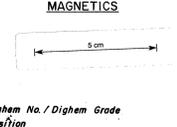


502362

GOLD FIELDS EXPLORATION PTY LIMITED
 S.R.L. 129- STONEHENGE GRID
 LINE 1800E (900S-675N)
 LOOKING N.W.
 SCALE 1:2000 METRES

DRAWN	R.K.
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	23 (2)
	022

I.P. DATA
 A = DIPOLE DISTANCE
 NR = NO READING
 V.L.F.-E.M.
 Diphem No. / Diphem Grade
 Position



GEOCHEMISTRY

Sn
Cu
Pb
Zn
As
Mo
Wc3

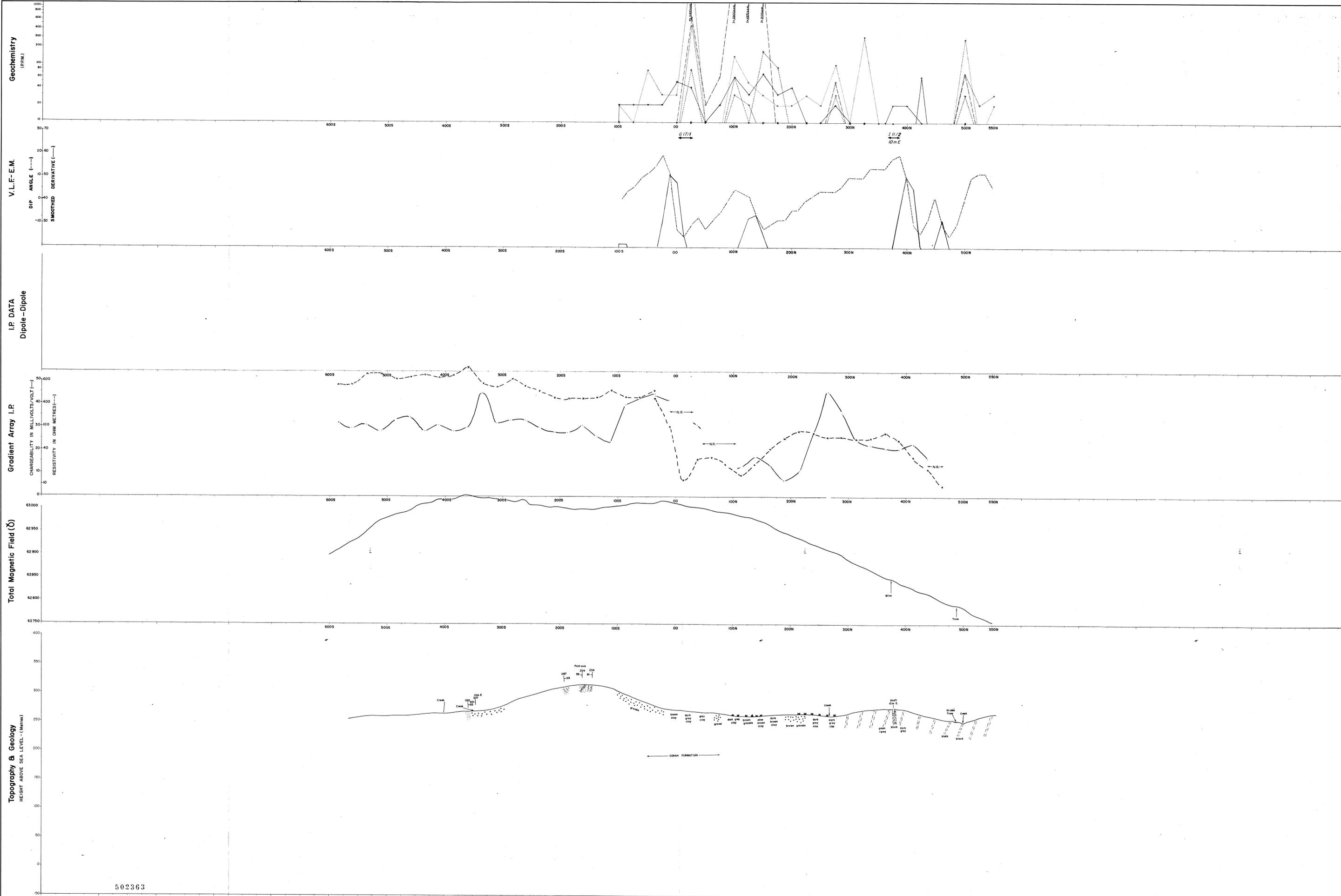
GEOLOGY

Onondaga Formation - Precambrian	Shale	Siltstone	Sandstone
----------------------------------	-------	-----------	-----------

Cambrian - Dundas Group?

Basic Lavas	Grits
Shale	Siltstone

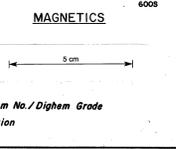
Gossan	Bedding	Cleavage	All Bearings Magnetic
--------	---------	----------	-----------------------



502363
 GOLD FIELDS EXPLORATION PTY. LIMITED
 S.P.L. I29 - STONEHENGE GRID
 LINE 1900E
 SCALE 1:2000 METRES

DRAWN	P.K.
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	24
	023

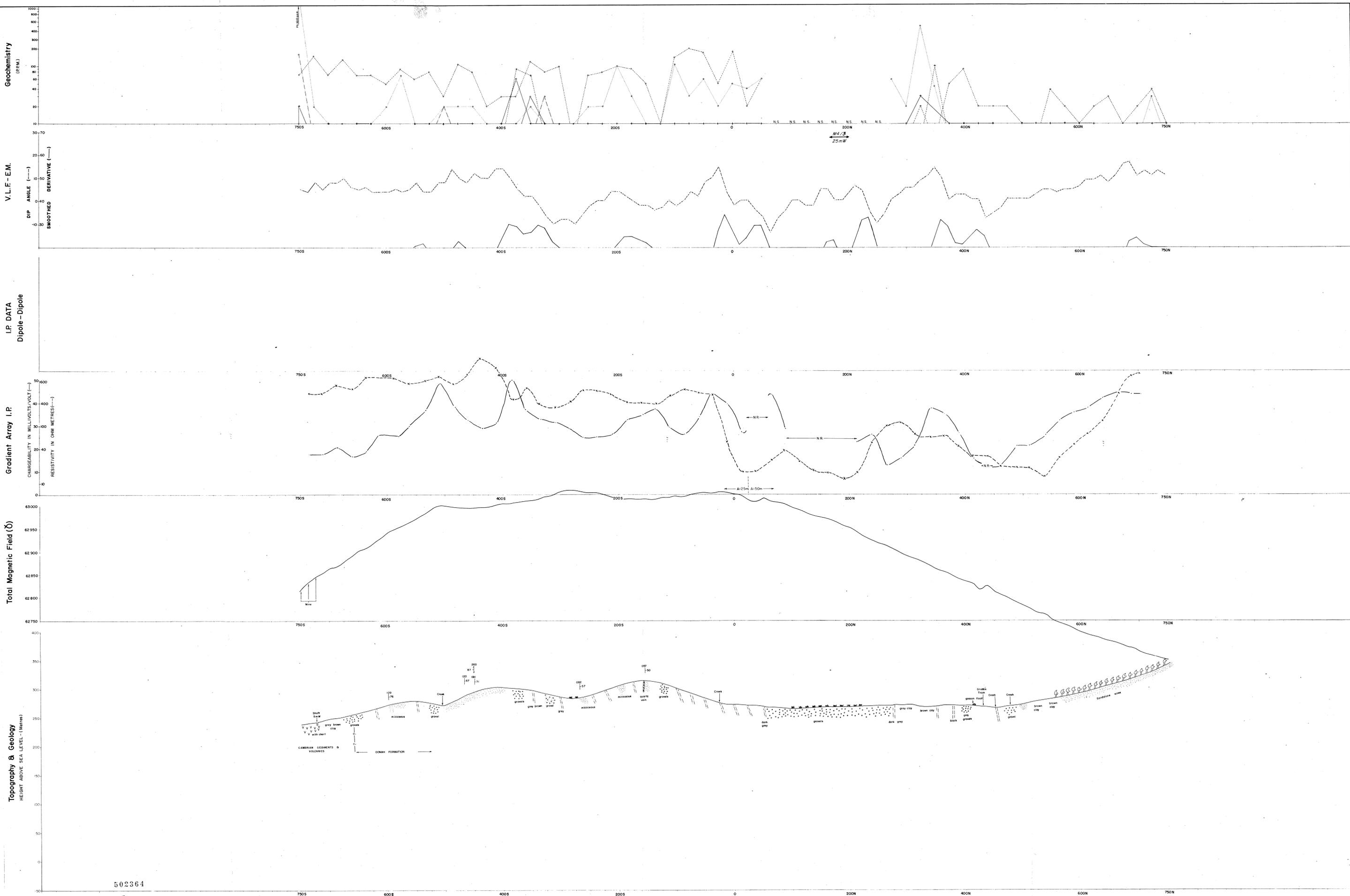
I.P. DATA
 N.R. = NO READING
 V.L.F.-E.M.
 1 1/2
 10m E
 Diphen No./Diphen Grade
 Position



GEOCHEMISTRY
 Sn
 Cu
 Pb
 Zn
 As
 Mo

GEOLOGY
 Orinoh Formation - Precambrian
 Shale
 Siltstone
 Sandstone

Cambrion - Dundas Group ?
 Basic Lavas
 Shale
 Siltstone
 Gossion
 Bedding
 Cleavage
 All Bearings Magnetic



502364

GOLD FIELDS EXPLORATION PTY. LIMITED
 S.P.L. 129-STONEHENGE GRID
 LINE 2000E
 SCALE 1:2000 METRES
 DRAWN P.K.
 TRACED S.F.
 DATE Feb. 93
 SCALE 1:2000
 FIG. NO. 25
 024

I.P. DATA
 A: DIPOLE DISTANCE
 NR: NO READING
 V.L.F.-E.M.
 Diphen No./Diphen Grade
 Position

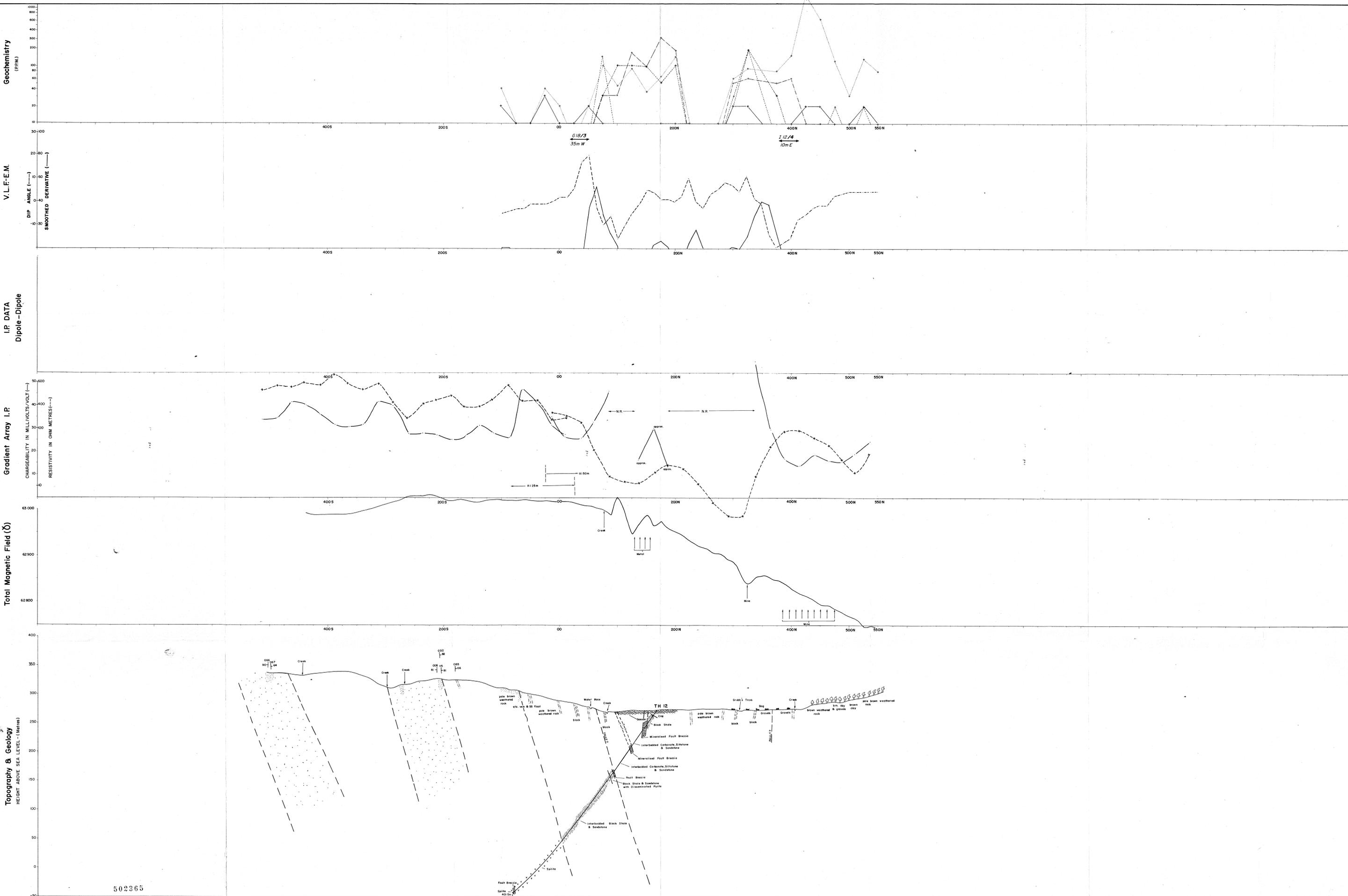
MAGNETICS
 5cm

GEOCHEMISTRY
 Sn
 Cu
 Pb
 Zn
 As
 Mo
 N.S. = No Sample

GEOLOGY
 Onan Formation - Precambrian
 Shale
 Siltstone
 Sandstone

Cambrian - Dundas Group?
 Basic Lavas
 Shale
 Siltstone

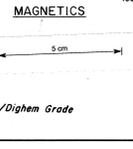
Gosson
 Bedding
 Cleavage
 All Bearings Magnetic



502365
83-2052

GOLD FIELDS EXPLORATION PTY LIMITED	DRAWN	PK
S.R.L. I29 - STONEHENGE GRID	TRACED	S.F.
LINE, 2100 E	DATE	Feb. 83
LOOKING N.W.	SCALE	1:2000
SCALE 1:2000 METRES	FIG. NO.	26
		025

I.P. DATA
A: DIPOLE DISTANCE
NR: NO READING
V.L.F.-E.M.
Dipole No./Dipole Grade
Position



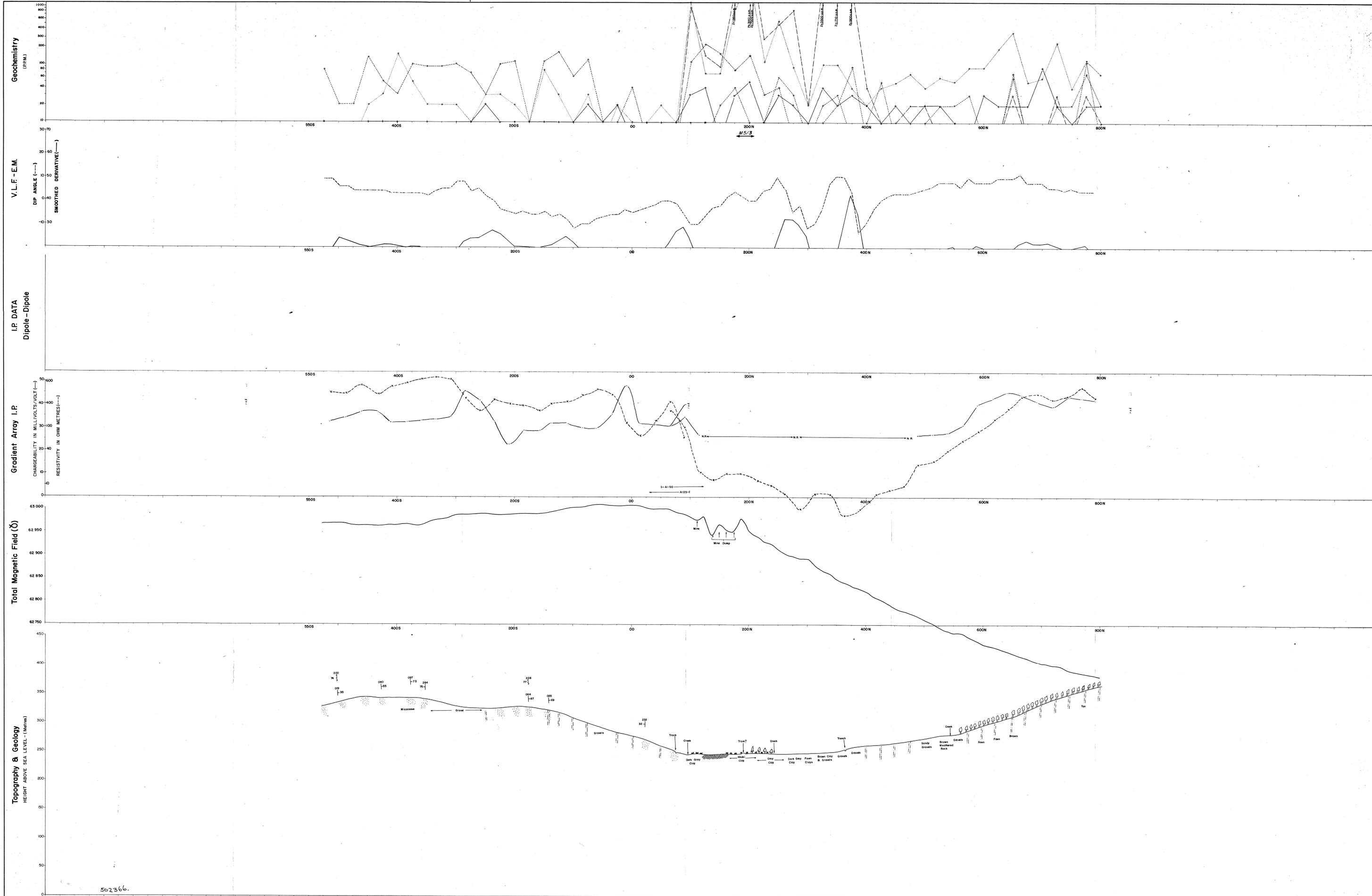
- GEOCHEMISTRY**
- Sn
 - Cu
 - Pb
 - Zn
 - As
 - Mo
 - Mo

- GEOLOGY**
- Onondaga Formation - Precambrian
- Shale
 - Siltstone
 - Sandstone

- Cambrian - Dundas Group?
- Basic Lava
 - Shale
 - Siltstone

- Grits
- Gossan
- Bedding
- Cleavage

All Bearings Magnetic



502366.
83-2052

GOLD FIELDS EXPLORATION PTY. LIMITED

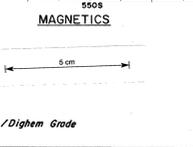
S.P.L. 129 - STONEHENGE GRID
LINE 2200 E
LOOKING N.W.

SCALE 1:2000 METRES

DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	27
	026

I.P. DATA
NR = NO READING
A = DIPOLE DISTANCE

V.L.F.-E.M.
MS/3 Dipole No./Dipole Grade
Position



GEOCHEMISTRY

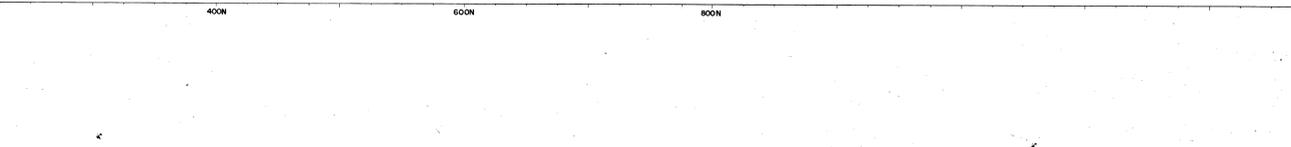
Sn	○
Cu	△
Pb	◇
Zn	▽
As	◇
Mo	◇

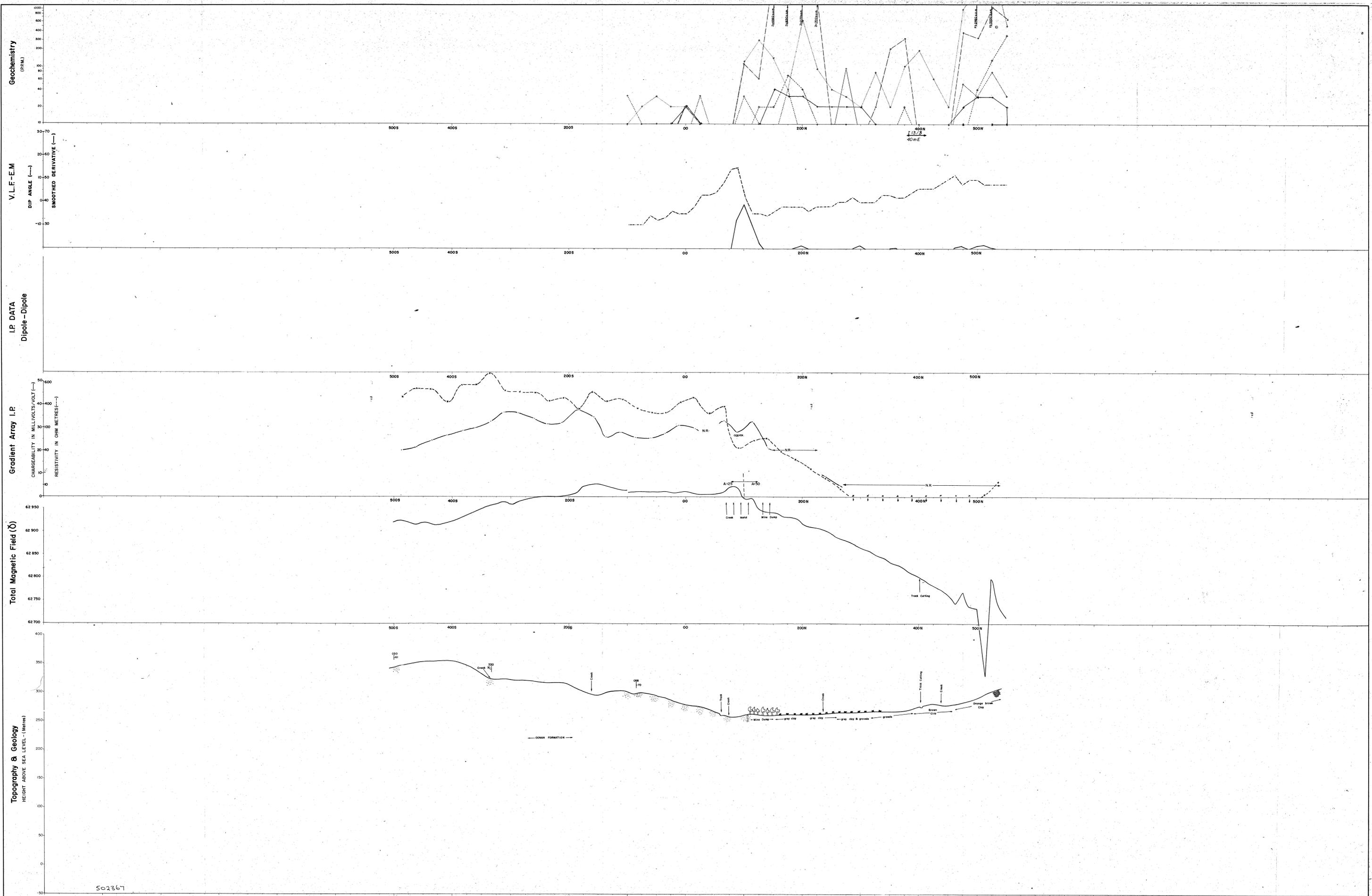
GEOLOGY

Oonah Formation - Precambrian	Shale
	Siltstone
	Sandstone

Cambrian - Dundas Group ?

Basic Lavas	Grits
Shale	Gossan
Siltstone	Bedding
	Cleavage





502367
8-2002
GOLD FIELDS EXPLORATION PTY. LIMITED

DRAWN	PK.
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	28
SCALE 1:2000 METRES	
027	

I.P. DATA
A = DIPOLE DISTANCE
NR = NO READING
V.L.F.-E.M.

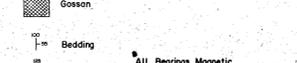
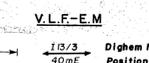
MAGNETICS
Diphen No./Grade Position

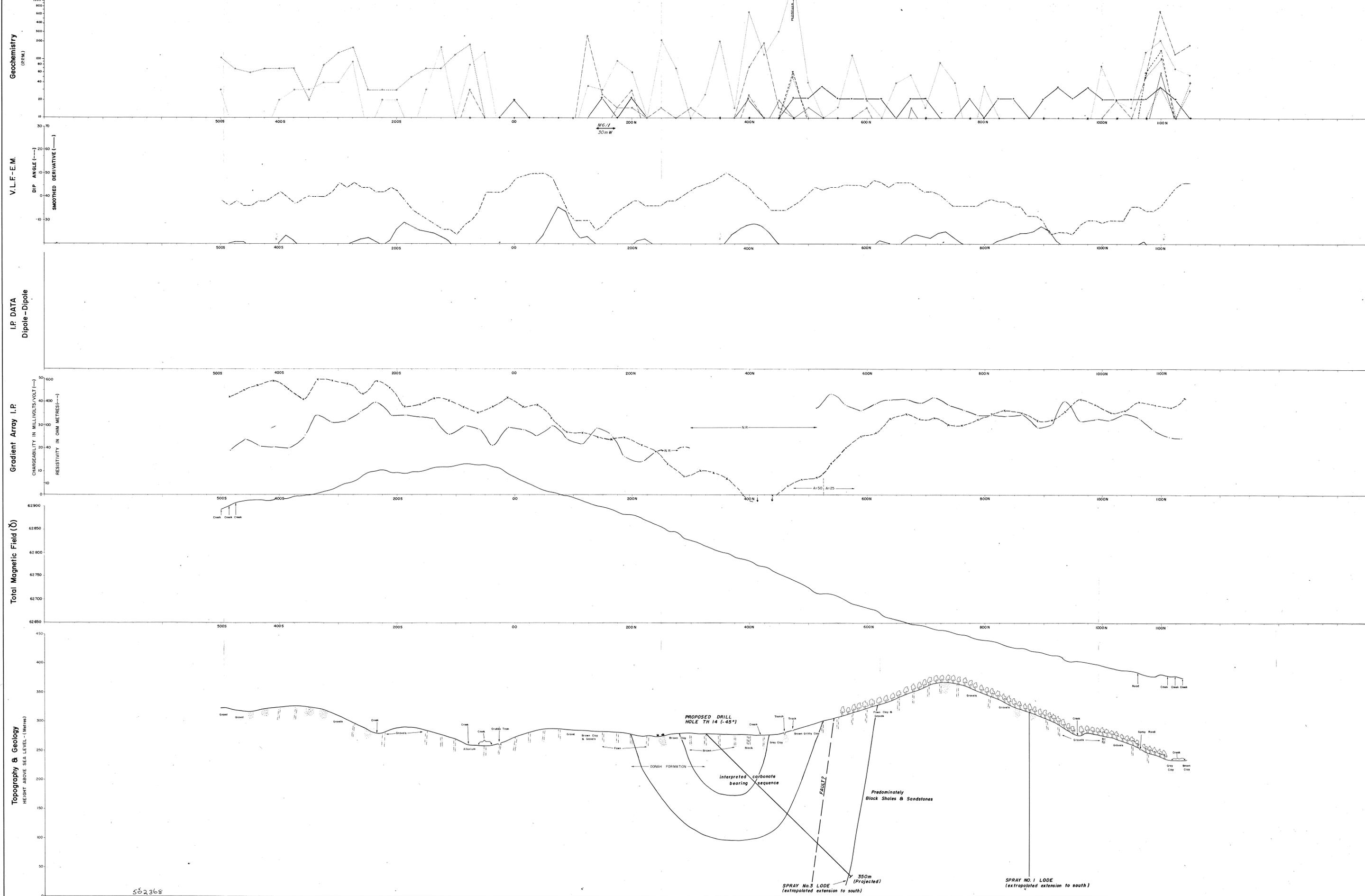
GEOCHEMISTRY
Sr
Cu
Pb
Zn
As
Mo
W

GEOLOGY
Donan Formation - Precambrian
Shale
Siltstone
Sandstone

Cambrian - Dundas Group?
Basic Lavas
Shale
Siltstone

Grits
Gosson
Bedding
Cleavage
All Bearings Magnetic





GOLD FIELDS EXPLORATION PTY LIMITED
 S.P.L. 129 - STONEHENGE GRID
 LINE 2400E
 LOOKING N.W.
 SCALE 1:2000 METRES

DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO	29
	028

I.P. DATA
 A: DIPOLE DISTANCE
 NR: NO READING
 5000 4000 2000 00 200N 400N 600N 800N 1000N 1100N
 V.L.F.-E.M.
 M6/1 Diphem No./Diphem Grade
 30m W Position

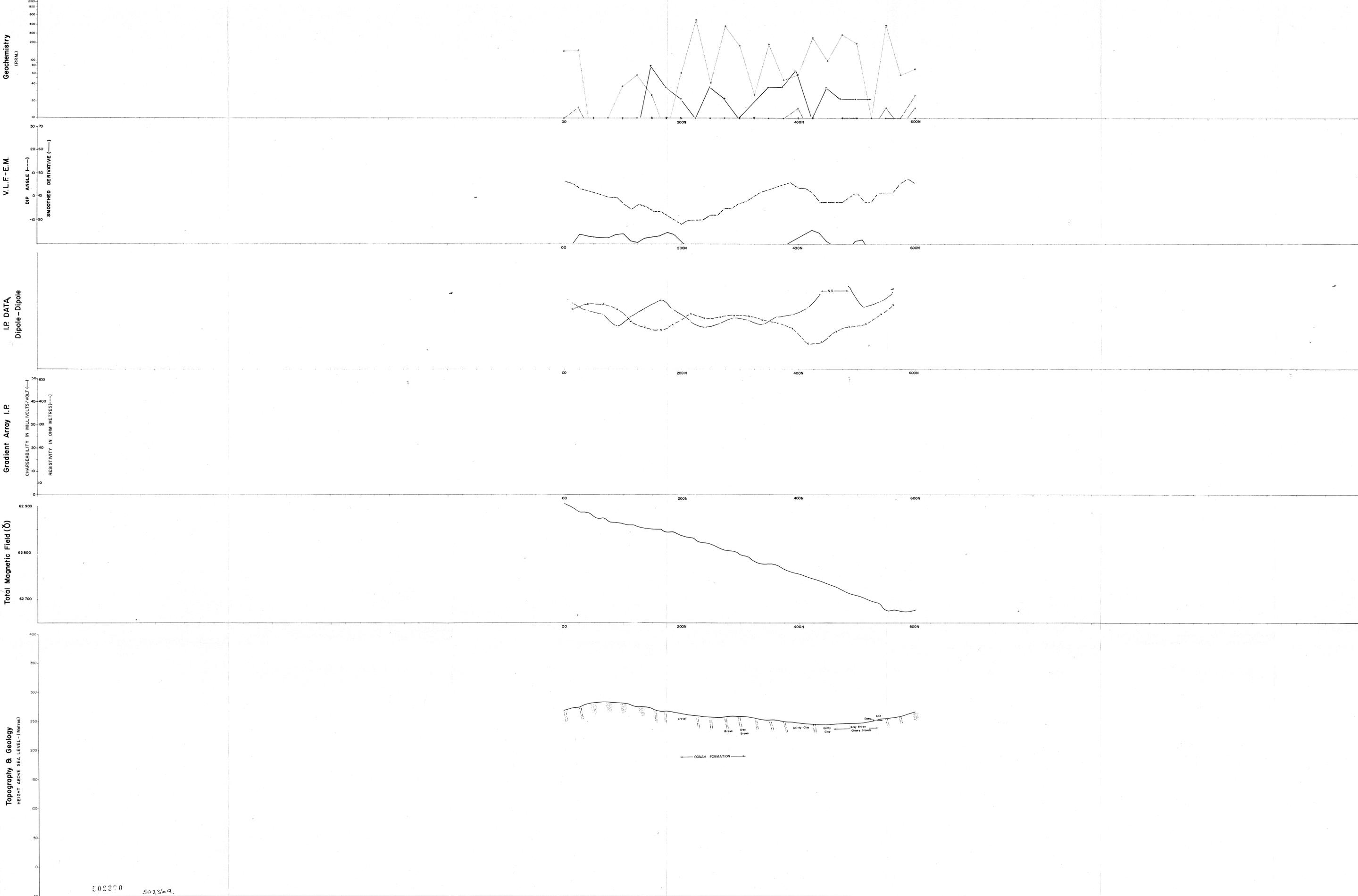
MAGNETICS
 5000 4000 2000 00 200N 400N 600N 800N 1000N 1100N
 5m

GEOCHEMISTRY
 Sn
 Cu
 Pb
 Zn
 As
 Mo

GEOLOGY
 Donah Formation - Precambrian
 Shale
 Siltstone
 Sandstone

Cambrion - Dundas Group?
 Basic Lavas
 Shale
 Siltstone

Grits
 Gossan
 Bedding
 Cleavage



502350 502369

83-2052

GOLD FIELDS EXPLORATION PTY LIMITED

DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO	30
029	

S.P.L. 129 - STONEHENGE GRID
LINE 2500 E
LOOKING N.W.
SCALE 1:2000 METRES

I.P. DATA
N.R. = NO READING

MAGNETICS

GEOCHEMISTRY

Sn	○
Cu	○
Pb	○
Zn	○
As	○
Mo	○

GEOLOGY

Donagh Formation - Precambrian

Shale	▨
Siltstone	▨
Sandstone	▨

Cambrion - Dundas Group?

Basic Lavas	▨
Shale	▨
Siltstone	▨

Grits

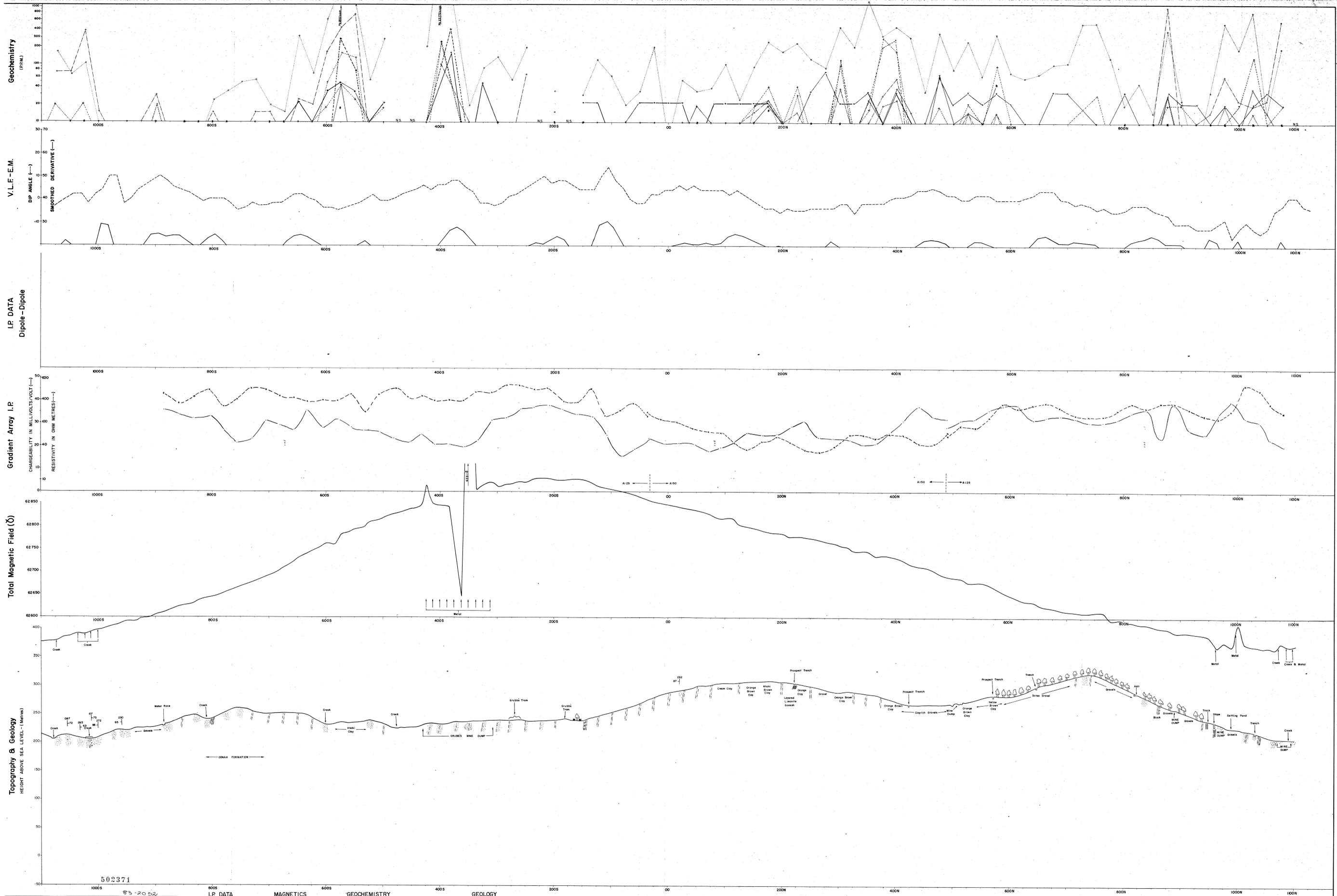
Gossan

Bedding

Cleavage

All Bearings Magnetic

00 200N 400N 600N



GOLD FIELDS EXPLORATION PTY LIMITED

S.P.L. 129 - STONEHENGE GRID
LINE 2600E (1100N-100S)

LOOKING N.W.
SCALE 1:2000 METRES

DRAWN	PK
TRACED	S.F.
DATE	FEB. 83
SCALE	1:2000
FIG. NO.	31 (7)
030	

I.P. DATA

MAGNETICS

GEOCHEMISTRY

GEOLOGY



- Sn
- Cu
- Pb
- Zn
- As
- Mo
- N.S. = No Sample

- Onah Formation - Precambrian**
- Shale
 - Siltstone
 - Sandstone

- Cambrion - Dundas Group ?**
- Basic Lavas
 - Shale
 - Siltstone

- Grits
- Gossion
- Bedding
- Cleavage

All Magnetic Bearings

Geochemistry
(ppm)

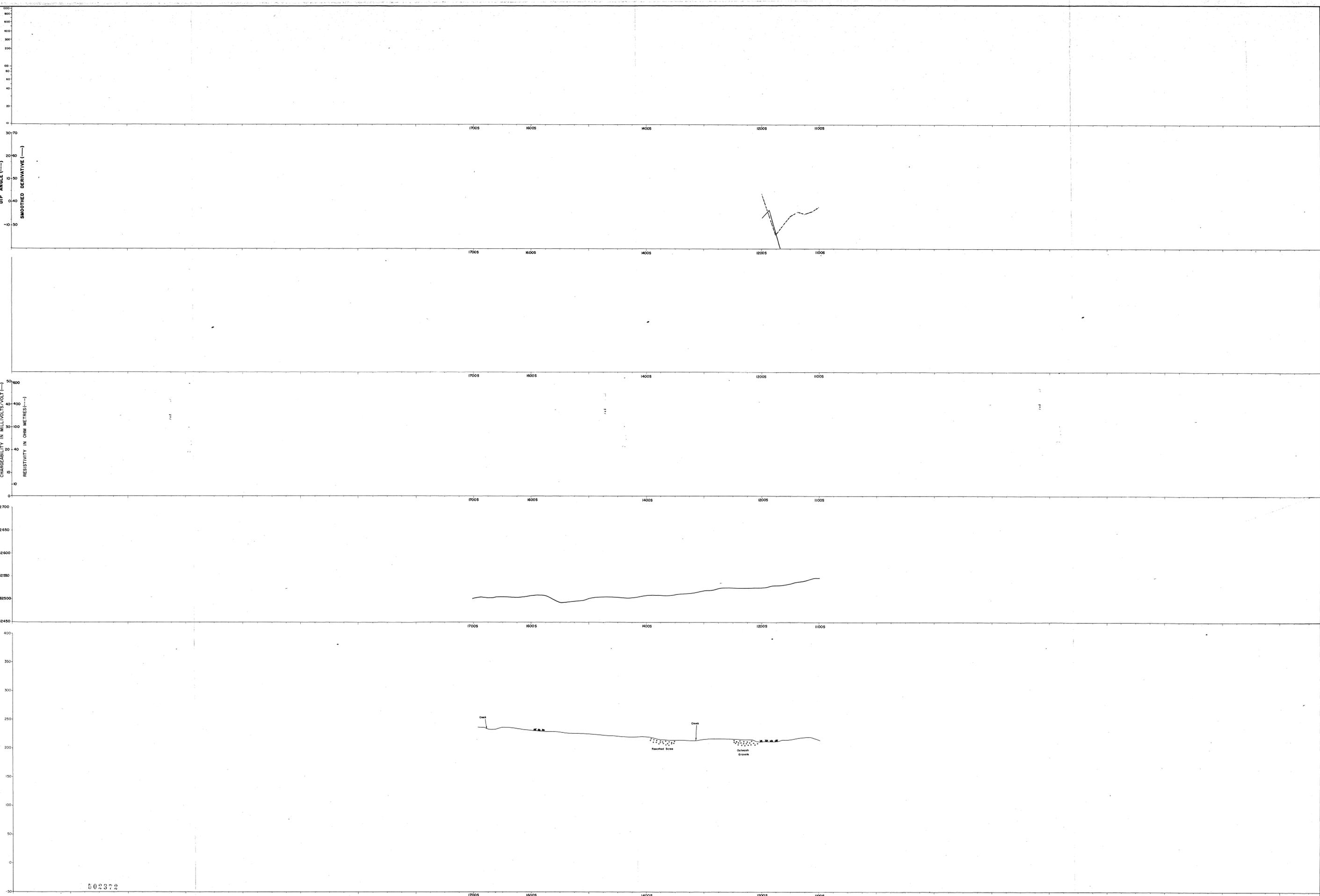
V.L.F. - E.M.
DIP ANGLE (---)
SMOOTHED DERIVATIVE (—)

I.P. DATA
Dipole-Dipole

Gradient Array I.P.
CHARGEABILITY IN MILLIVOLTS/VOLT (---)
RESISTIVITY IN OHM METRES (—)

Total Magnetic Field (G)
62700
62650
62600
62550
62490

Topography & Geology
HEIGHT ABOVE SEA LEVEL - (Metres)
400
350
300
250
200
150
100
50
0
-50



502372

83-2002

GOLD FIELDS EXPLORATION PTY LIMITED
 S.P.L. 129 - STONEHENGE GRID
 LINE 2600E (1100S-1700S)
 LOOKING N.W.
 SCALE 1:2000 METRES

DRAWN	RK
TRACED	S.R.
DATE	Feb. 83
SCALE	1:2000
FIG. NO.	31(8)
	031

I.P. DATA

MAGNETICS

GEOCHEMISTRY

GEOLOGY

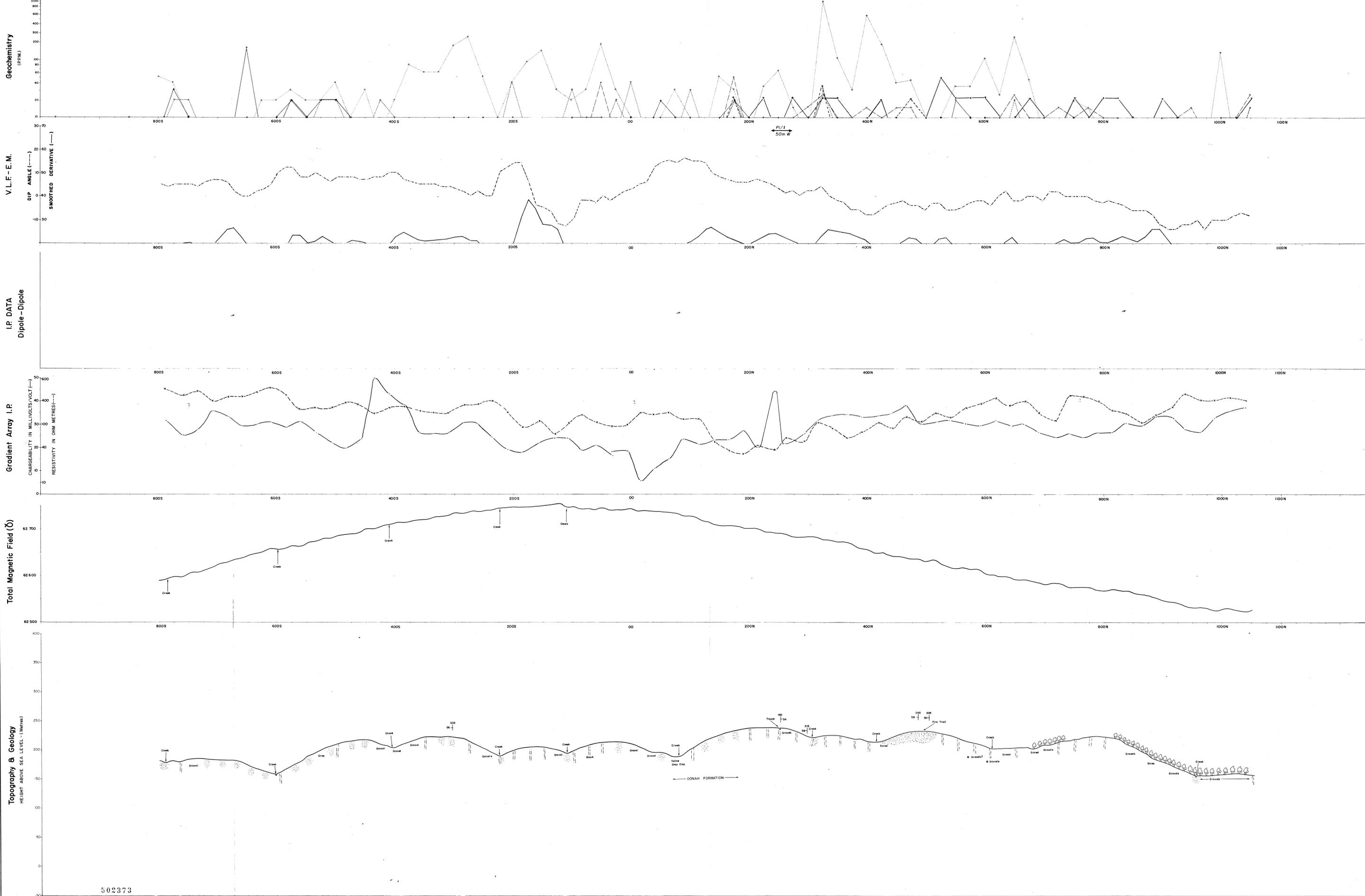


- Sn
- Cu
- Pb
- Zn
- As
- Wb3

- Osnah Formation - Precambrian
- Shale
 - Siltstone
 - Sandstone

- Cambrian - Dundas Group?
- Basic Lava
 - Shale
 - Siltstone

- Grits
- Gossan
- Bedding
- Cleavage



502373

85-2052
 GOLD FIELDS EXPLORATION PTY. LIMITED
 S.P.L. 129 - STONEHENGE GRID
 LINE 2800E
 SCALE 1:2000 METRES

DRAWN	PK
TRACED	S.F.
DATE	Feb. 83
SCALE	1:2000
FIG. NO	32
	032

I.P. DATA **MAGNETICS** **GEOCHEMISTRY** **GEOLOGY**

V.L.F.-E.M.
 PI/I
 50m W
 Position

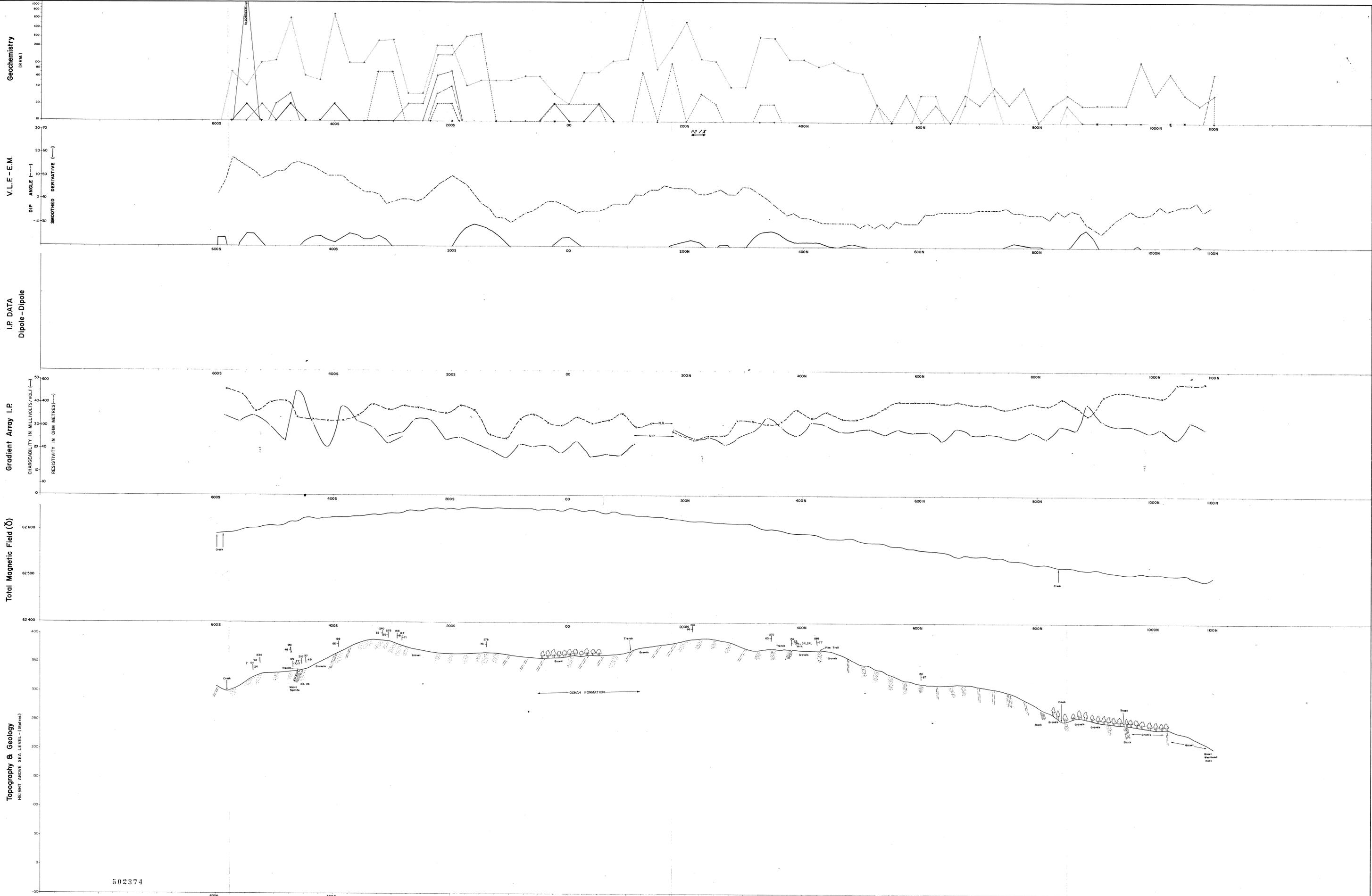
Geoth Formation - Precambrian

- Shale
- Siltstone
- Sandstone

Cambrian - Dundas Group ?

- Basic Lavas
- Shale
- Siltstone
- Grits
- Gossan
- Bedding
- Cleavage

* All Bearings Magnetic



502374

GOLD FIELDS EXPLORATION PTY. LIMITED
 S.P.L. 129-STONEHENGE GRID
 LINE 3000E
 LOOKING N.W.
 SCALE 1:2000 METRES

DRAWN	R.K.
TRACED	S.F.
DATE	Feb. 85
SCALE	1:2000
FIG. NO.	33
	033

I.P. DATA
 N.R. = NO READING
 5 cm
 V.L.F.-E.M.
 P2/X Dipole No. / Dipole Grade
 50 m E Position

GEOCHEMISTRY
 Sn
 Cu
 Pb
 Zn
 As
 Mo

Onash Formation - Precambrian
 Shale
 Siltstone
 Sandstone

Cambrian - Dundas Group?
 Basic Lavas
 Shale
 Siltstone

Gossan
 Bedding
 Cleavage
 All Bearings Magnetic



GEOLOGY				SYMBOLS		REVISIONS		DRAWING INFORMATION				
Quaternary Qra Recent Alluvium Tertiary P Volcanic Quartzite, Sandstone, Siltstone, Shale, Conglomerate, Limestone, Ferruginous Sandstone, Iron Rich Siltstone, Volcanic Sandstone, Lignite Development	Ordovician Oz Mt Zeehan Conglomerates	Cambrian Cc Black Silstone Cg Greywacke, Siltstone, Sandstone, Quartzite, Carbonate Cd Silstone, Greenstone Cg Conglomerate Chert Basalt Volcanics	Crimson Creek Formations Cc Undifferentiated	Pre-Cambrian Puo Quartzite and Siltstone Cgq Greenstone, Quartzite, Siltstone, Sandstone, Conglomerate, Spillite	ROCKS Dg Devonian Granite and Adolinite Cgq Cambrian Gabbro	1- Geological Boundary 2- Geological boundary uncorroborated and/or fault 3- Limit of horizontal 4- Fault and linear negative topographic features 5- Lobe - open slope 6- Dip and strike of bedding 7- Dip and strike of bedding overturned	8- Dip and strike of foliation 9- Anticline syncline axis 10- Trend bedding 11- Mine workings: AdB 12- Shaft 13- Dike 14- Dike	15- Dighem conductance grade 16- Zone or anomaly label	17- Scale bar: 0 to 400 metres 18- North arrow 19- 5 cm scale bar	Survey flown Feb. 1982 - North-South Flight lines spaced 150m. apart. Ref: RN/MG.82/15	83-2052 RENISON LIMITED (ZEEHAN DI) 502375 STONEHENGE DIGHEM E.M. ANOMALIES SCALE: 1:10,000 METRES Ref: RN/MG.82/15	DRAWN: J.B. TRACED: T.S.O.S./J.B. DATE: Oct. 1982 SCALE: 1:10,000 DRAWING No.: FIG. 35



STONEHENGE GRID
S.P.L. 129 EL. 4/78

S.P.L. 129 EL. 4/78



- Legend**
- ANOMALY TYPE**
-  CONTACT TYPE
 -  "CLASSIC CROSSOVER" TYPE

ZEEHAN D/1	ZEEHAN D/2
ZEEHAN D/3	ZEEHAN D/4

502377

GOLD FIELDS EXPLORATION PTY. LIMITED

STONEHENGE GRID

V.L.F.

FRASER ALGORITHM

SCALE 1:5000

FIG. 38

DRAWN BY : P.K.
DRAFTSMAN S.F.
DATE : Jan, 83
REVISIONS :
FILE NO.



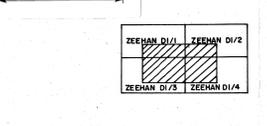
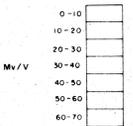
STONEHENGE GRADIENT ARRAY I.P.
 RECEIVER SCINTREX IPR 8
 CONTRACTOR SCINTREX
 DIPOLE SPACING: 25 m except for
 50 m LINES

1300E 287N - 487N	1800E 37N - 562N	ARRAY 1 LINES 00E - 600E
1400E 62 S - 537 N	1900E 12 S - 462 N	ARRAY 2 LINES 800E - 1400E
1500 E, 62 S - 537 N	2000E 37N - 700N	ARRAY 3 LINES 1600E - 2200E
1600 E, 12 S - 587N	2100 E, 12 S - 537N	ARRAY 4 LINES 2300 E - 3000E
1700E, 12 S - 537N	2200E, 62 S - 787N	
	2300 E, 12N - 557N	
	2400 E, 62N - 537N	
	2500 E, 12N - 562N	
	2600 E, 12 S - 482N	

ELECTRODES AT:

ARRAY 1	LINE 400E, 600N, 600S
ARRAY 2	LINE 1100E, 1000S, 1000N
ARRAY 3	LINE 1800 E, 1200S, 1200N
ARRAY 4	LINE 2600 E, 1200 S, 1550N

N.R. = NO READING



502378
 GOLD FIELDS EXPLORATION PTY. LIMITED
 8/2-2062
STONEHENGE GRID
GRADIENT ARRAY I.P. SURVEY
CHARGEABILITY (Mv / V)

DRAWN BY P.K.
DRAFTSMAN S.F.
DATE April 85
REVISIONS
FILE NO.

SCALE 1:5000

FIG. 39



STONEHENGE GRID
E.L. 4/78

S.P.L. 129 E.L. 4/78

502379

STONEHENGE GRADIENT ARRAY I.P.
 RECEIVER: SCINTREX I.P.R. 8
 CONTRACTOR: SCINTREX
 DIPOLE SPACINGS: 25 m except for
 150m LINES

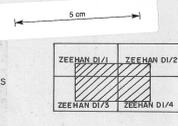
1800E, 37N - 562N
 1900E, 12 S - 462 N
 2000E, 37N - 700N
 2100E, 12 S - 537 N
 2200E, 62 S - 787N
 2300E, 112N - 537 N
 1400E, 62 S - 537 N
 1500E, 62 S - 537 N
 1600E, 12 S - 567 N
 1700E, 12 S - 537 N

ARRAY 1: LINES 00E - 600E
 ARRAY 2: LINES 800E - 1400E
 ARRAY 3: LINES 1500E - 2200E
 ARRAY 4: LINES 2300E - 3000E

ELECTRODES AT:
 ARRAY 1: LINE 400E, 600N, 600S
 ARRAY 2: LINE 1000E, 1000S, 1000N
 ARRAY 3: LINE 1800E, 1200S, 1200N
 ARRAY 4: LINE 2600E, 1200S, 1500N

40-63	1000-1600	OHM-METRES
63-100	1600-2500	
100-160	2500-4000	
160-250	4000-6300	
250-400	6300-10000	
400-630	10000-16000	
630-1000	OVER 16000	

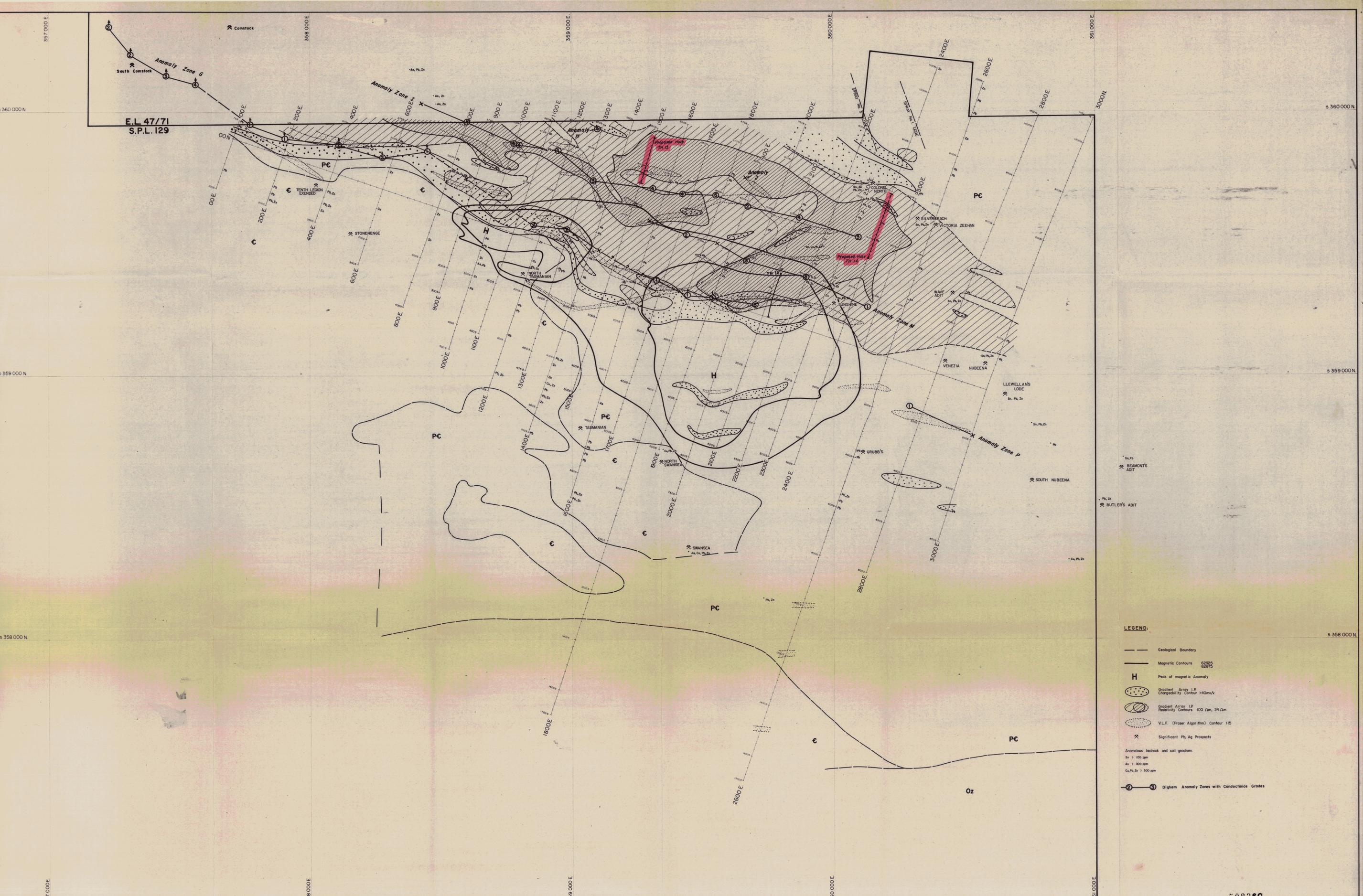
N.R. = NO READING



GOLD FIELDS EXPLORATION PTY. LIMITED
 50-2052
STONEHENGE GRID
GRADIENT ARRAY I.P. SURVEY
RESISTIVITY (OHM-METRES)

SCALE 1:5000
 METRES

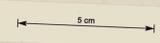
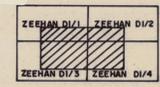
DRAWN BY: P.K.
 DRAFTSMAN: S.F.
 DATE: APR/83
 REVISIONS:
 FILE NO.
 FIG. 40

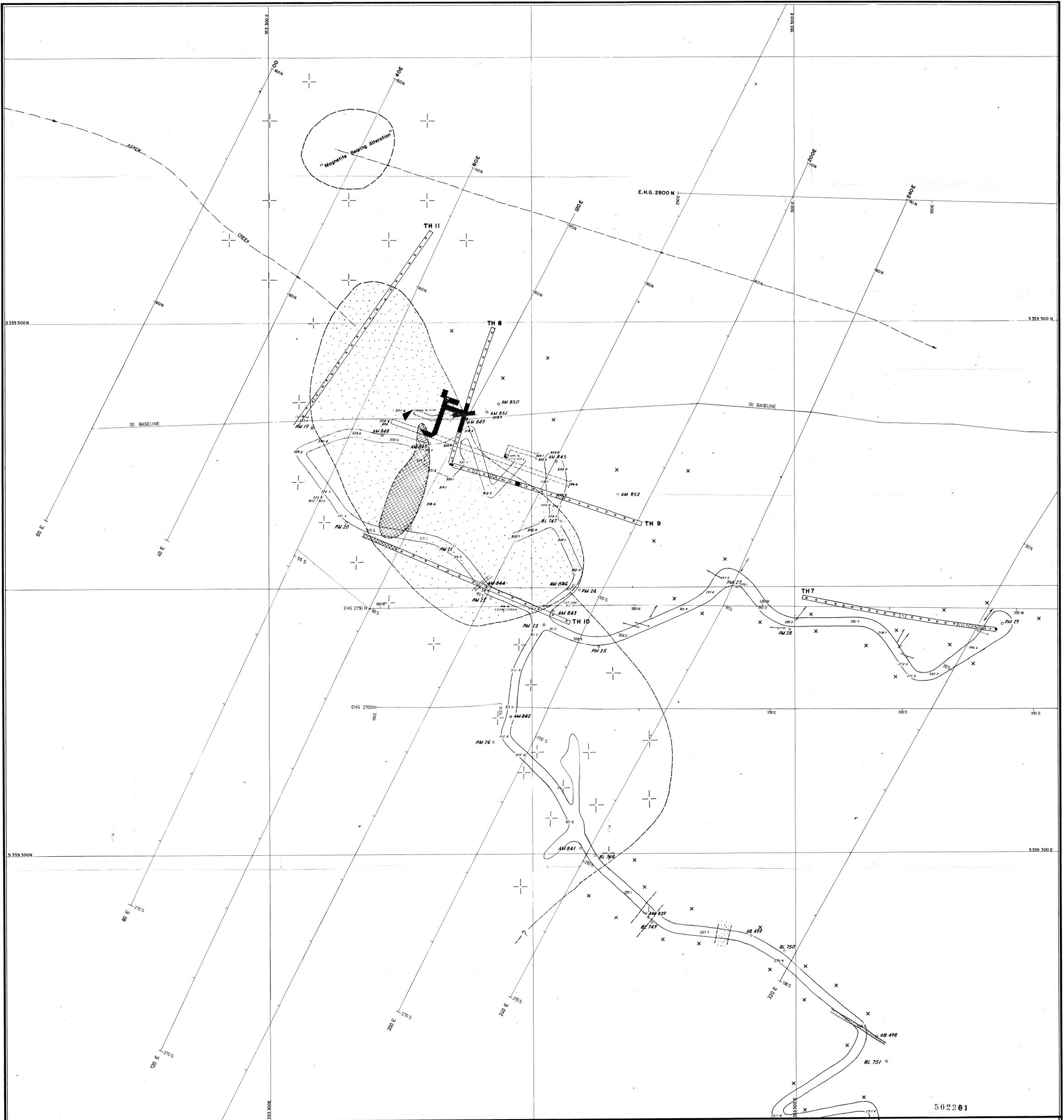


- LEGEND:**
- Geological Boundary
 - Magnetic Contours
 - H** Peak of magnetic Anomaly
 - ⊙ Gradient Array I.P. Chargeability Contour >40mV/v
 - ⊙ Gradient Array I.P. Resistivity Contours 100 Ohm, 24 Ohm
 - ⊙ V.L.F. (Fraser Algorithm) Contour >15
 - ⋆ Significant Pb, Ag Prospects
 - Anomalous bedrock and soil geochem.
 Sn > 100 ppm
 As > 300 ppm
 Cu, Pb, Zn > 500 ppm
 - ②-⑤ Diphen Anomaly Zones with Conductance Grades

502380

GOLD FIELDS EXPLORATION PTY LIMITED	
83-2082	STONEHENGE GRID
ANOMALY COMPILATION	
DRAWN BY RK.	
DRAFTSMAN T.G.D.S.	
DATE June 83	
REVISIONS	
FILE NO.	
SCALE 1:5000	FIG 41

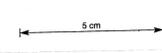




Legend

- POTENTIALLY ECONOMIC Sn &/or Ag GRADES
- TOURMALINE ALTERATION
- GREISENISED GRANITE
- ARGILLIC ALTERATION
- FINE GRAINED PORPHYRITIC GRANITE
- COARSE GRAINED WHITE GRANITE
- FINE GRAINED WHITE GRANITE
- MEDIUM TO COARSE GRAINED RED GRANITE

- TOURMALINE VEININGS: NEAR VERTICAL
- JOINTING & GREISEN VEINING: NEAR VERTICAL OR STEEPLY DIPPING AS SHOWN



TD 13	TD 14	TD 15
TE 13	TE 14	TE 15

502361

GOLD FIELDS EXPLORATION PTY. LIMITED

33-2052

GLOBE MINE AREA

INTERPRETATIVE GEOLOGY

&

DIAMOND DRILL HOLE LOCALITY

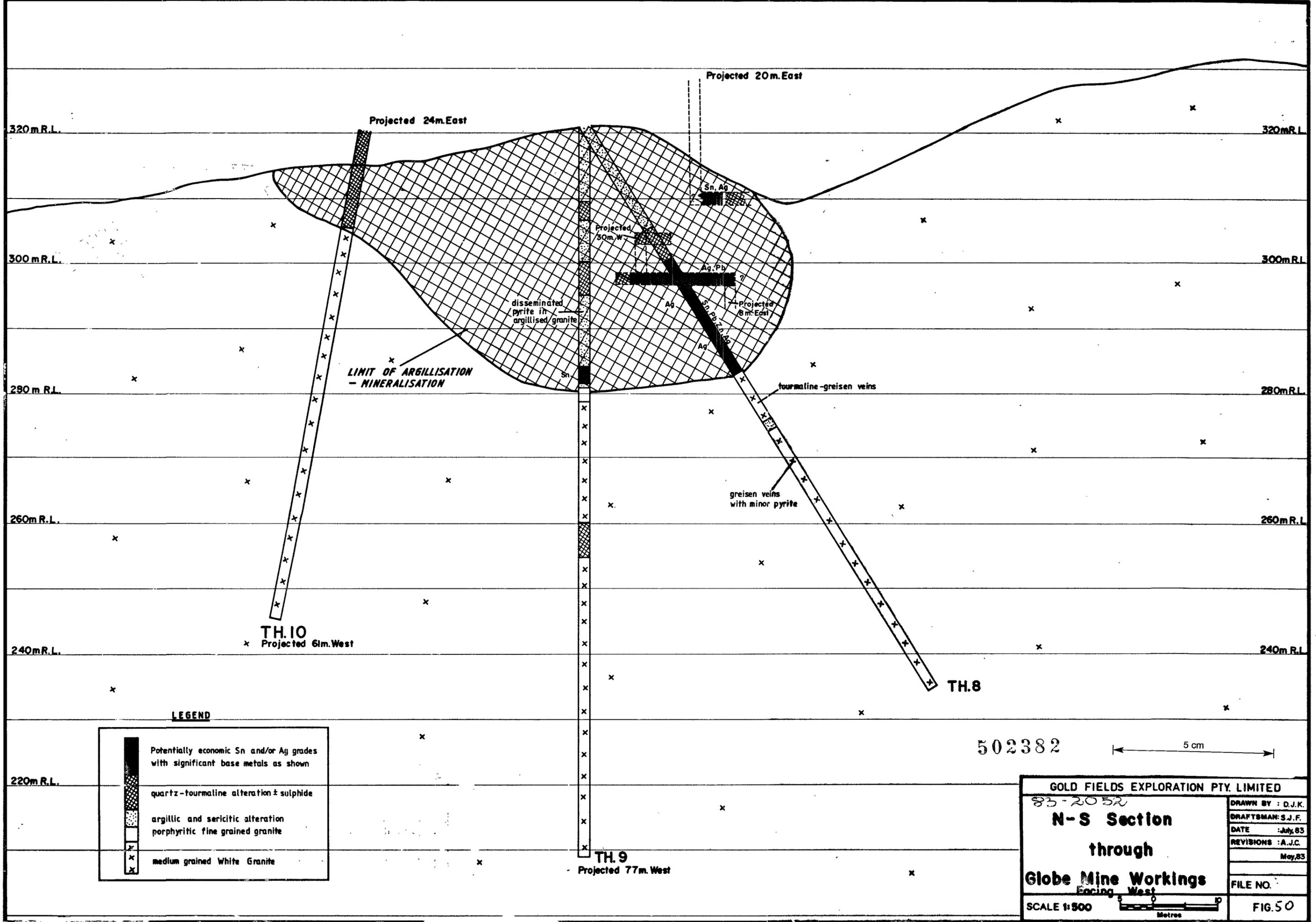
PLAN

DRAWN BY: A.J.C.
DRAFTSMAN: S.J.F.
DATE: Oct. 83
REVISIONS:
FILE NO.

SCALE 1:500

METERS

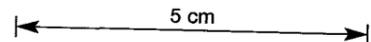
FIG. 49



LEGEND

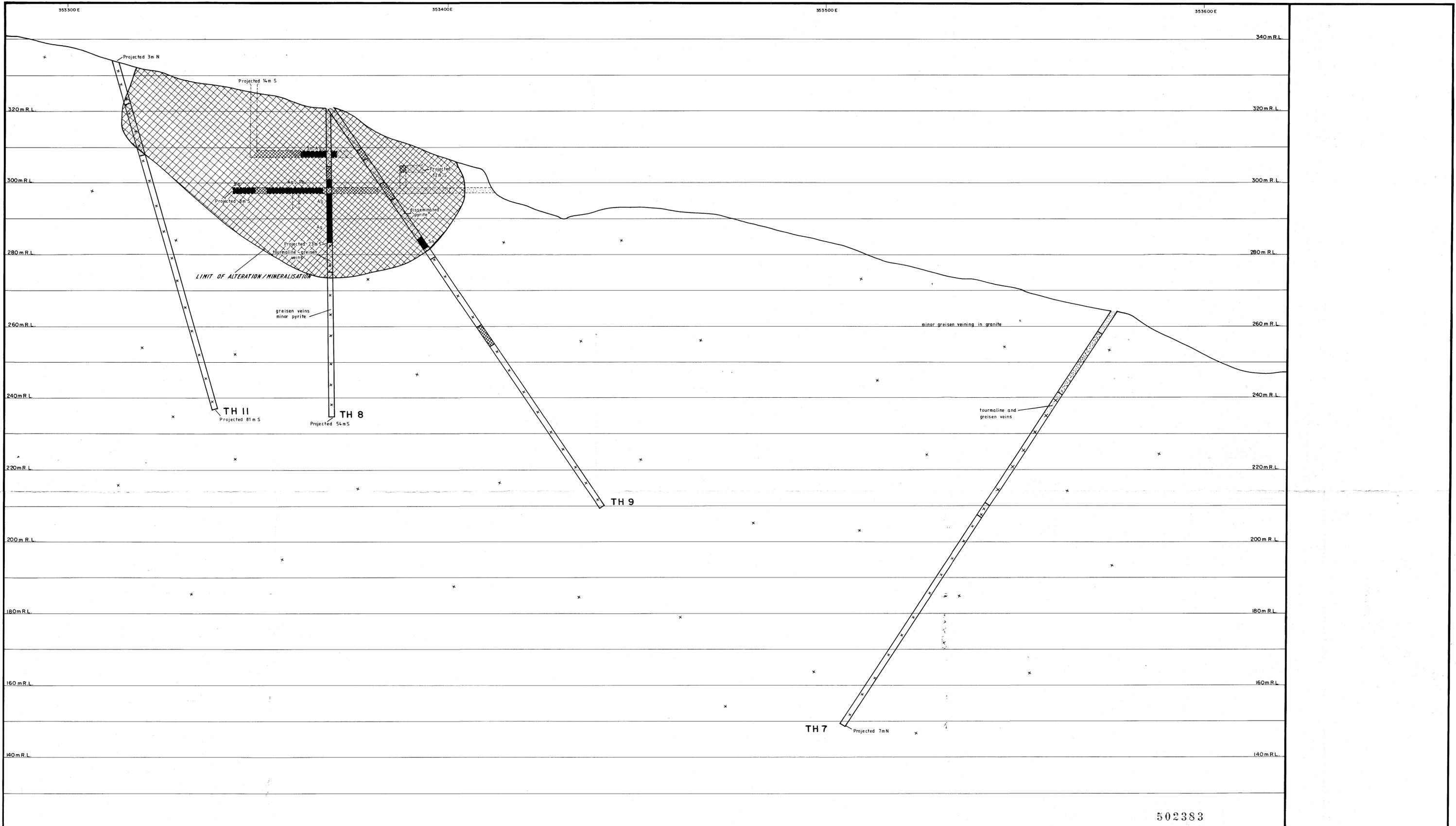
	Potentially economic Sn and/or Ag grades with significant base metals as shown
	quartz-tourmaline alteration ± sulphide
	argillic and sericitic alteration porphyritic fine grained granite
	medium grained White Granite

502382



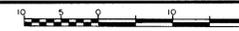
GOLD FIELDS EXPLORATION PTY. LIMITED	
83-2052	
N-S Section	
through	
Globe Mine Workings	
Facing West	
SCALE 1:500	
FILE NO.	FIG. 50

DRAWN BY : D.J.K.
 DRAFTSMAN: S.J.F.
 DATE : July, 83
 REVISIONS : A.J.C.
 May, 83



Legend

-  potentially economic Sn and/or Ag grades with significant base metals as shown: Sn 0.1% or Ag 20ppm
-  quartz - tourmaline alteration ± sulphide
-  greisenised granite and greisen veins
-  argillic and sericitic alteration
-  porphyritic fine grained granite
-  medium grained White Granite
-  fine to medium grained granite

GOLD FIELDS EXPLORATION PTY. LIMITED							
82-2052							
EAST-WEST SECTION							
(bearing 105 AMG)							
through the Globe Mine Area							
facing north							
SCALE 1: 500							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">DRAWN BY: A.C.</td> <td style="width: 50%;">DRAFTSMAN: S.F.</td> </tr> <tr> <td>DATE: July, 83</td> <td>REVISIONS:</td> </tr> <tr> <td>FILE NO.:</td> <td>FIG. 51</td> </tr> </table>	DRAWN BY: A.C.	DRAFTSMAN: S.F.	DATE: July, 83	REVISIONS:	FILE NO.:	FIG. 51
DRAWN BY: A.C.	DRAFTSMAN: S.F.						
DATE: July, 83	REVISIONS:						
FILE NO.:	FIG. 51						

5 cm

502383