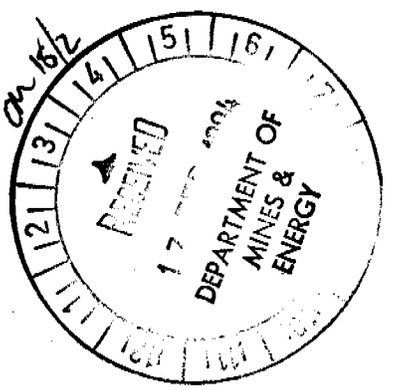
ANNUAL REPORT
EXPLORATION LICENCES 7021, 7127, 7391, 7661, 7980 AND 7981
BURRUNDIE DOME AREA, NT



JANUARY 1993 - DECEMBER 1993

BY

I.K. BUTLER

OF

AZTEC MINING COMPANY LIMITED

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PINE CREEK SD52-3
Pine Creek 5270

Darwin NT
February 1994

CR 94/120

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SUMMARY

The Burrundie Dome project comprised six exploration licences (7021, 7127, 7391, 7661, 7980 and 7981). These tenements have recently been amalgamated into SEL 8421. It is located 50 kms northwest of Pine Creek in the Emerald Springs area of the Northern Territory.

The tenements are centred on a distinctive structural entity identified as the Burrundie Dome within the Lower Proterozoic Pine Creek Geosyncline. The oldest sediments exposed in the area are carbonaceous schists of the South Alligator Group which is overlain by a flysch type sequence of the Burrell Creek Formation, Finniss River Group. The South Alligator Group has been intruded by sills of Zamu Dolerite prior to regional deformation at about 1800 m y.

There are numerous recorded mineralisation types in the area, the most important ones being; stratiform base metal sulphide bodies eg. Iron Blow, Mt Bonnie; stratiform gold-sulphide bodies eg. Golden Dyke, Cosmo Howley; structurally controlled base metal and gold deposits eg. Pickfords; Zamu Dolerite hosted gold; greywacke hosted gold - quartz veins eg. Yam Creek; greywacke hosted tin - quartz veins eg. Hayes Creek; and quartz mica pegmatite hosted tin eg. Jimmys Knob.

The area has a well developed drainage pattern and abundant outcrop which resulted in geochemical exploration programmes being very successful for effectively exploring the area. It was extensively explored for gold during the 1980's. The primary target being sought by Aztec Mining is base metal mineralisation occurring as stratiform orebodies or structurally controlled polymetallic sulphide bodies. Work conducted previously by Aztec Mining included literature research, data compilation, detailed rock chip sampling of gossans in geochemically anomalous areas, gridding, soil sampling, ground magnetics surveys, detailed geological mapping, and diamond drilling. During the 1993 field season a similar work programme was conducted.

This exploration has located a thin gossan/silicate/sulphide lode with sphalerite associated with pyrrhotite stratigraphically positioned just above a distinctive limestone unit in the Lower Koolpin Formation. The lode has been mapped throughout the project area and an additional lode has been identified higher in the stratigraphy.

An outcrop of weathered limestone with galena mineralisation identified at the Emerald Springs Anomaly was prospected in more detail and diamond drilled.

Further work is recommended to identify areas where the gossan/silicate/sulphide lode may thicken.

1. INTRODUCTION

Exploration Licences 7021, 7127, 7391, 7661, 7980 and 7981) are located immediately north of the Stuart Highway some fifty kilometres northwest of Pine Creek in the Emerald Springs area (Figure 1).

The topography is typically rugged with strike ridges of Zamu Dolerite and South Alligator Group sediments separated by alluvial valleys. Access into the area is via cleared tracks that run northwards off the Stuart Highway. One of the tracks follows ridge lines and the other is restricted to the valley floors. Access to most of the licence areas would be impossible during the wet season.

The licences were taken out to explore primarily for base metal mineralisation in the South Alligator Group.

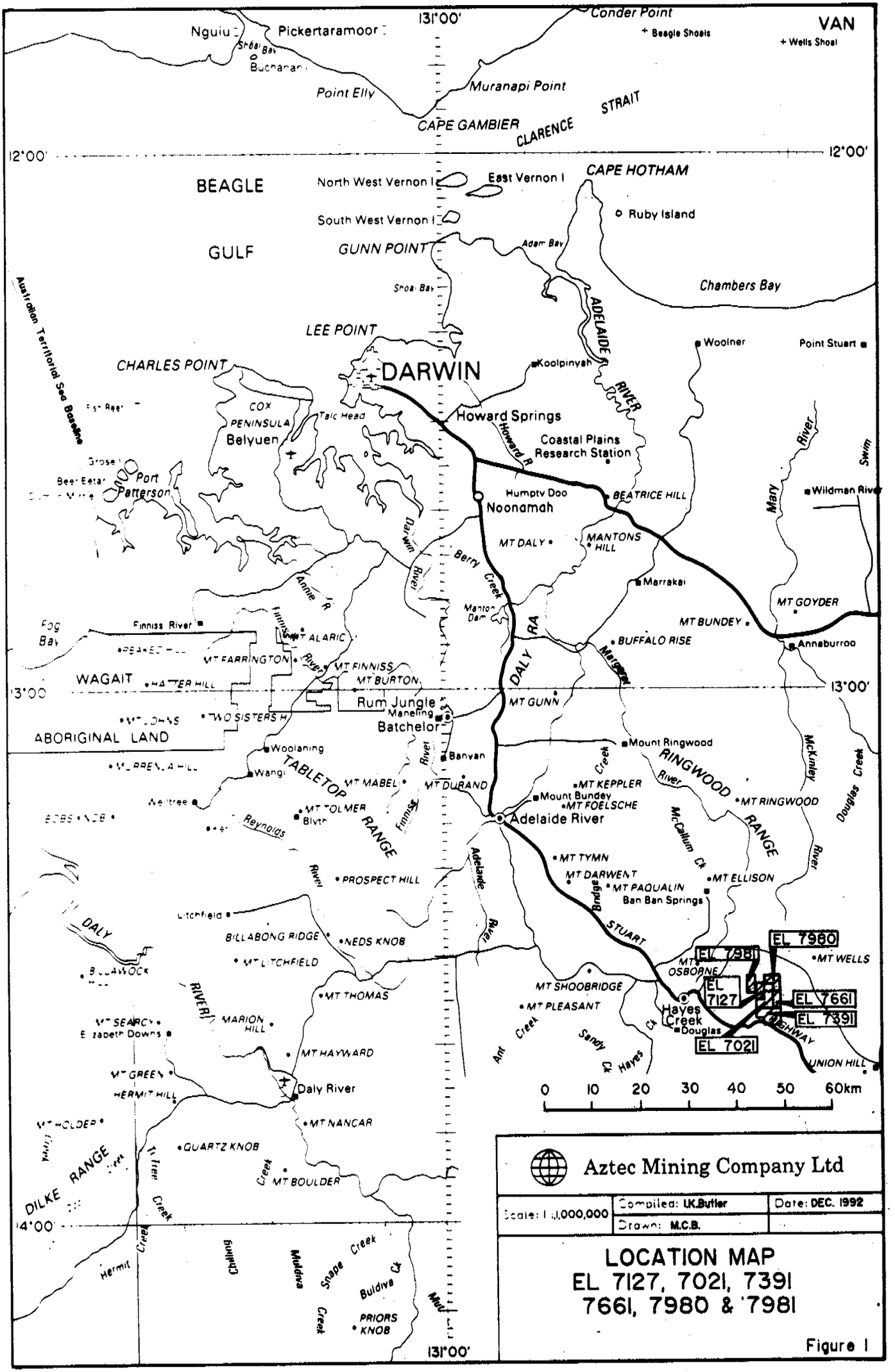
The aim of this report is to discuss work conducted in the 1993 field season, present results and propose a work programme with a estimated budget for the 1994 field season.

2. TENURE

The Burrundie Project was comprised of the following contiguous block of tenements (Figure 1).

EL Number	Date Granted	Period (Years)	Size (Graticular Block)
7021	23.10.90	4	3
7127	20.11.90	3	2
7391	31.05.91	4	5
7661	28.02.92	3	2
7980	28.04.93	4	3
7981	28.04.93	3	2

These tenements have been replaced by SEL 8421 which was granted to Aztec Mining Ltd on 18th November 1993 for a period of two years.



Aztec Mining Company Ltd

Scale: 1:1,000,000	Compiled: I.K.Butler	Date: DEC. 1992
	Drawn: M.C.B.	

LOCATION MAP
EL 7127, 7021, 7391 7661, 7980 & 7981

Figure 1

3. *CONCLUSIONS*

1. The Yellowtrack silicate (actinolite/chlorite) lode is located within Lower Koolpin stratigraphy and can be traced throughout the Burrundie Dome project area.

2. Magnetic anomalies located within Lower Koolpin stratigraphy at Burrundie are sourced from pyrrhotite rich facies associated with silicate/sulphide lodes.

3. Lead and zinc mineralisation is located within a limestone bed of the Middle Koolpin formation at the Emerald Springs Anomaly. The limestone is stratigraphically higher than the limestone immediately below the Yellowtrack silicate/sulphide lode.

4. Detailed geological mapping has revealed there is another silicate/sulphide lode stratigraphically above the Yellowtrack lode.

5. The gossan at Yellowtrack is most likely sourced from siderite breccias with anomalous zinc.

6. Further exploration is required to fully evaluate the economic potential of both the Yellowtrack silicate/sulphide lodes.

4. *PREVIOUS EXPLORATION*

There has been a considerable amount of systematic exploration for gold dominantly, and to a lesser extent base metal mineralisation in the Burrundie Dome area in the past. A summary of previous work carried out in the area follows:-

GEOPEKO 1977 - 1980

Geopeko explored the area for Iron Blow - Mt Bonnie polymetallic sulphide type deposits predominantly within the Mt Bonnie Formation (Goulevitch 1977, 1978). Two magnetic anomalies were diamond drilled in an area referred to as the Saunders Creek Anomaly. No significant base metal or gold mineralisation were reported in these holes.

EL 3138 1982 - 1987 GEOPEKO - ANACONDA AUSTRALIA - CSR LIMITED

In 1982, a detailed stream sediment sampling programme and geological mapping with rock chip sampling of the Koolpin Formation was conducted by Geopeko to evaluate the potential for iron formation hosted gold and associated base metal mineralisation in the stratigraphically lower sections of the South Alligator Group. (Nicholson and Radford 1982).

In 1983 the geochemical anomalies generated by this work were partly evaluated by soil sampling. Only one anomaly (Horseshoe valley) was recommended for further work however further detailed mapping and rock chip sampling downgraded the area. (Rolfe and Radford 1983).

CSR conducted further stream sediment sampling programmes from 1985 to 1987 searching primarily for disseminated gold mineralisation within Zamu Dolerite. Detailed follow up of the stream sediment anomalies located the source of the anomalous gold, mainly in the Middle or Upper Koolpin Formation and in quartz veins. Mineral claims were pegged to cover some of these gold occurrences.

EL 4374 1985 - 1989 CSR LIMITED - CYPRUS MINERALS AUSTRALIA LIMITED

Work carried out by CSR included reconnaissance geological mapping, rock chip sampling, low level (airborne) magnetics survey and a BLEG stream sediment sampling survey. The primary target of this exploration was dolerite hosted gold mineralisation. Cyprus carried out a Landsat Thematic Mapper interpretation followed up by two phases of rock chip sampling and geological mapping. Anomalous areas defined were either covered by existing Mining Leases eg. Pickforms or were outside the EL boundaries.

EL 4817 CSR LIMITED - CYPRUS MINERALS AUSTRALIA LIMITED

A very similar programme of work to that conducted within EL 4734 was carried out concurrently in EL 4817 by CSR initially and later by Cyprus. Again the geochemically anomalous areas were restricted to existing Mining Leases/Claims or were outside the EL boundaries.

EL 6246 1988 - 1990 OCEANIA EXPLORATION AND MINING NL

Work carried out comprised primarily of an airborne magnetics survey and interpretation. It was concluded that the magnetic response was a function of stratigraphy. Koolpin Formation was the highest. There were no obvious magnetic anomalies indicative of mineralised bodies.

EL 6529 1989 - 1990 WESTERN MINING CORPORATION

Exploration was aimed at the discovery of economic gold and/or base metal mineralisation within favourable structural/stratigraphic portions of the South Alligator and Mt Partridge Groups. Exploration activities were focussed to the area by a regional structural and stratigraphic assessment of the South Alligator Group. Work carried out included literature research, image processing, Landsat TM imagery, stream sediment survey and a little soil sampling. The work failed to define any areas worthy of follow up exploration.

MCN 3142 - 3147, 3162 - 3167 (1989 - 1990) CARPENTARIA GOLD PTY LIMITED

The claims were pegged to enclose an area in which a stream sediment gold anomaly had been located but not followed up by the previous EL holder, CSR Limited. The gold bearing potential of the Koolpin Formation and Zamu Dolerite was investigated by stream sediment and rock chip sampling. This detailed exploration failed to define any substantial gold targets.

MCN 598 - 622 1983 - 1991 NORD RESOURCES - FREEPORT - OCEANIA EXPLORATION AND MINING NL

The exploration consisted of two main periods of activity. During 1983 - 1985 Freeport of Australia drilled six drill holes into selected geochemical targets in MLN 605. This drilling intersected low grade gold mineralisation and with anomalous arsenic plus base metal values. The best intersection as 1m @ 1.6 g/t Au and 6.3% As from 58 - 59 m.

During 1988 Oceania Exploration and Mining NL carried out geological mapping, rock chip, soil and drainage geochemical surveys which highlighted five anomalous zones with potential for gold mineralisation. Each of these was associated with chert/BIF horizons in the Koolpin Formation. They were considered to have low potential for a significant gold resource.

5. GEOLOGY AND MINERALISATION

5.1 REGIONAL GEOLOGY

5.1.1 Previous Work

The regional geology of the area is described by Walpole et al (1968) and Needham, Crick, and Stuart-Smith (1980). Goulevitch (1977, 1978 a) compiled 1:25,000 geology maps covering the Burrundie Dome Area. Nicholson (1982) mapped the Middle Koolpin Formation in detail and compiled interpretive 1:10,000 geological plans covering most of the Burrundie Dome area. These plans have formed the basis for subsequent work conducted by a number of different explorers who have only modified the geology in detail.

5.1.2 General Geology

Apart from minor outcrops of Cretaceous Sandstone, all the major lithologies in the area belong to the Lower Proterozoic Pine Creek Geosyncline. The oldest sediments exposed are carbonaceous schists of the lower Koolpin Formation (originally Wildman Siltstone). These are conformably overlain by a heterogeneous sequence of mudstone, banded iron formation, volcanic chert and greywacke of the South Alligator Group, and a flysch - type sequence of the Burrell Creek Formation, Finniss River Group.

Sediments in the South Alligator Group were intruded by sills of Zamu Dolerite prior to mid-greenschist facies metamorphism facies metamorphism and regional deformation at about 1800 m y. The Cullen Granite which lies in the south of the area and the Prices Springs Granite which lies in the north of the area were intruded at about 1720 m y (Walpole et al 1968).

5.2 DETAILED GEOLOGY

A detailed description of the prospect geology stratigraphy and structure of Burrundie Dome Area has been presented in Company Annual Reports on Open File at the DME Library. These reports are Nicholson and Radford 1982 (CR 83/017), Heyworth 1988 (CR 88/245A), and Dreverman 1990. In addition, the stratigraphy of the Koolpin Formation is discussed in a paper, Controls on Gold Mineralisation in the Pine Creek Geosyncline, Nicholson and Eupene 1984. The reader is referred to these reports and paper for details.

5.3 MINERALISATION

Numerous mineralisation types are recorded in the Cosmo/Burrundie area, the most important ones being greywacke hosted tin-quartz veins eg. Hayes Creek Mine; quartz mica pegmatite hosted tin eg. Jimmy's Knob; greywacke hosted gold quartz veins, eg. Yam Creek; stratiform base metal sulphide bodies eg. Iron Blow, Mt Bonnie and stratiform gold sulphide bodies eg. Golden Dyke, Cosmopolitan Howley.

6. WORK CARRIED OUT AND RESULTS

6.1 GEOLOGICAL MAPPING

Detailed geological mapping at 1:2,500 scale was carried out to infill areas not mapped during the previous year. The entire length of the Yellowtrack anticline (see Enclosure 1 for location) has now been mapped from the Yellowtrack anomaly in the north to Bob's Knob anomaly in the south. The mapping has been drafted onto Enclosures 3, 4, 5 and 6. A preliminary stratigraphic column (Figure 2) has been drawn up for the Yellowtrack Anticline. The additional mapping has confirmed previous interpretations discussed in earlier reports (Butler, 1993) and has shown:-

- there is most likely only one sulphide-silicate lode stratigraphically above the Yellowtrack lode and it is low in sulphides (poor gossan development);
- the Zamu dolerite is discordant with bedding;
- the stratigraphy is variable within the mapped area and is suggestive of rapid facies and thickness variations; and
- there are numerous thin, highly altered (sericite, actinolite, chlorite) dolerite sills within the sequence. They are commonly misidentified in the field.

6.2 ROCK CHIP SAMPLING

A total of 88 rock chips were collected from the project area during the field season (see Enclosures 2 and 6 for location and Appendix II for analyses). The samples were analysed for Cu (2), Pb (2), Zn (1), As (100) by AAS (MA-3 method) and Au (0.01) by Fire Assay (FAGC method) at Assaycorp, Pine Creek.

Samples 586818 - 825 (Enclosure 6) were strongly limonitic and siliceous outcrops of the upper sulphide-silicate lode at Bobs Knob anomaly. The samples were only weakly anomalous in Zn (555 ppm max), As (235 ppm max) and Cu (508 ppm max).

Samples 582884 - 890 (Enclosure 2) were collected in the vicinity of a gold rockchip anomaly from the previous year (581933 - 10 g/t). No gold was detected in any of the samples.

Samples 581936 - 952 , 967 - 982, 985 - 5822000 and 578351 - 382 (Enclosure 2) were collected from within EL 7980. Regional traversing and rock chipping of limonitic outcrops was carried out in areas with elevated Cu, Pb and Zn stream geochemistry. Some of the samples were strongly anomalous in Zn (3350 ppm max) and weakly anomalous in Cu (547 ppm max).

6.3 SOIL SAMPLING

An additional 48 (-425 microns) samples were collected from the western portion of the Yellowtrack South anomaly in order to close off a weak Zn anomaly outlined from earlier work. The sampling closed off the Zn anomaly but only slightly elevated levels of Zn (max 142 ppm) were recorded. The analyses and locations are in Appendix I.

6.4 DIAMOND DRILLING

YTD 5

In order to follow up previous drilling at a Zn rich surface gossan exposed at the Yellowtrack anomaly one diamond drill hole (YTD 5) was drilled at -69° towards 60° magnetic to intersect an interpreted down plunge thickening of the gossan below the base of oxidation. The hole was precollared to 54m and cored (NQ) to 148m (see Figure 3).

Prominent breccia zones with a siderite matrix were intersected at a similar stratigraphic interval as the silicate-sulphide lode (immediately above limestone) in YTD 5. The breccia zones were split by diamond saw and the core analysed at Woodcutters Laboratory for Cu, Pb and Zn by AAS (see Appendix III). Anomalous Zn (0.96% max 96.5 - 98.5m) levels were recorded and it is most likely the sideritic breccia is the source of the surface gossan at Yellowtrack rather than the silicate sulphide lode.

ESD 2

To follow up diamond drill hole ESD 1 at the Emerald Springs anomaly a second diamond hole ESD 2 was drilled approximately 120m further along strike (see Enclosure 5 for location). It was drilled at -69° towards 40° magnetic and was designed to test mineralised limestone intersected in a water bore below the base of oxidation. The hole was precollared to 49m and cored (NQ) to 147.5m (see Figure 4 ESD 2 Cross Section).

The diamond drilling intersected fresh Zamu dolerite then passed into a recrystallised limestone bed (9m) with no sulphide minerals. The hole then passed into a sequence of strongly hornfelsed sideritic Banded Iron Formation (carbonate facies) and dolomitic mudstone possibly with further altered dolerite sills. The only sulphide mineral noted throughout the hole was pyrite.

6.5 GROUND MAGNETICS

Detailed magnetic surveys were conducted over the Yellowtrack South and Bobs Knob anomalies. The area covered was guided by air magnetic high anomalies which were interpreted to be sourced from a pyrrhotitic facies associated with the silicate-sulphide lodes. Readings were taken every 12.5m on lines 100m apart (see Appendix IV). The survey was conducted using a single Geometrics Model 816 portable Proton Magnetometer.

The data was evaluated by consultant geophysicist L Farrar. Areas with magnetic highs were outlined however they were low order and not clearly defined. The surface geochemical response was low over these anomalies.

7. *EXPENDITURE DURING 1993*

Salaries/Wages	$32,692
Geological Consultants	7,789
Geophysical Consultants	2,500
Analyses	1,540
Drilling	20,850
Motor Vehicle	734
Fuel	262
Contract Services	2,231
Accommodation/Meals	2,123
Equipment Hire	950
Field Costs	557
Administration (15%)	10,834
TOTAL	**$83,062**

The combined covenant for Exploration Licences 7021, 7127, 7391, 7661, 7980 and 7981 was $67,300.

8. *PROPOSED WORK PROGRAMME AND BUDGET FOR YEAR ONE - SEL 8421*

The proposed work programme for year one is as follows:-

(i)	Evaluation of exploration data to date	$3,000
(ii)	Infill detailed geological mapping and sampling	7,000
(iii)	Diamond drilling	$20,000
TOTAL		**$30,000**

The estimated expenditure for year one is a minimum of $30,000 however should results be encouraging then additional work would be carried out.

GORMAN GRAPH PAPER MFD IN N.Z.

Pale pk sericitic, w-m hem f-m gr arkose (siltstone, f.gr. sandstone)

hem 2

hematite rich beds Tr. boxwork

hem cbc slst. Grey col. soft ± occ harder more resistant bed

hem decrease down strat

Pale, w hem cbc slst.

Thin laminated chert bed. (pink-creamy)

hem

Laminated beds of w hem w cbc slst/ssm hard.

hem 2

lam 2

laminated pk cht beds

laminated cbc siltstone

lode

cbc 3

white

grey-black graphitic schist.

cbc 3

hem 1

white

Massive hem. beds. Pk-mauve col.

W. hem, dominantly laminated cbc siltstone

hem 1

hem-lam 1

pink

cbc 2

soft pk col sericitic schist

banded bed

grey black graphitic schist.

large Py casts

cbc 2

cbc 2

Pk hem oolitoidal text pitted surface

Banded 1

Banded 1

Banded 1

ferrug (hem)

W. hem

±Po

cbc 1

cbc 1

siderite

altered at base. Pitted text. chl-musc ± sil Hematitic.

actim/chl/sphalt Po ≥ Siderite/sphal

?

lode

limestone

limestone

lower cbc

lower cbc

10cm thick FTTOS

YELLOWTRACK 10000N

8100N

5900N

0

25 m

50m

1:1000.

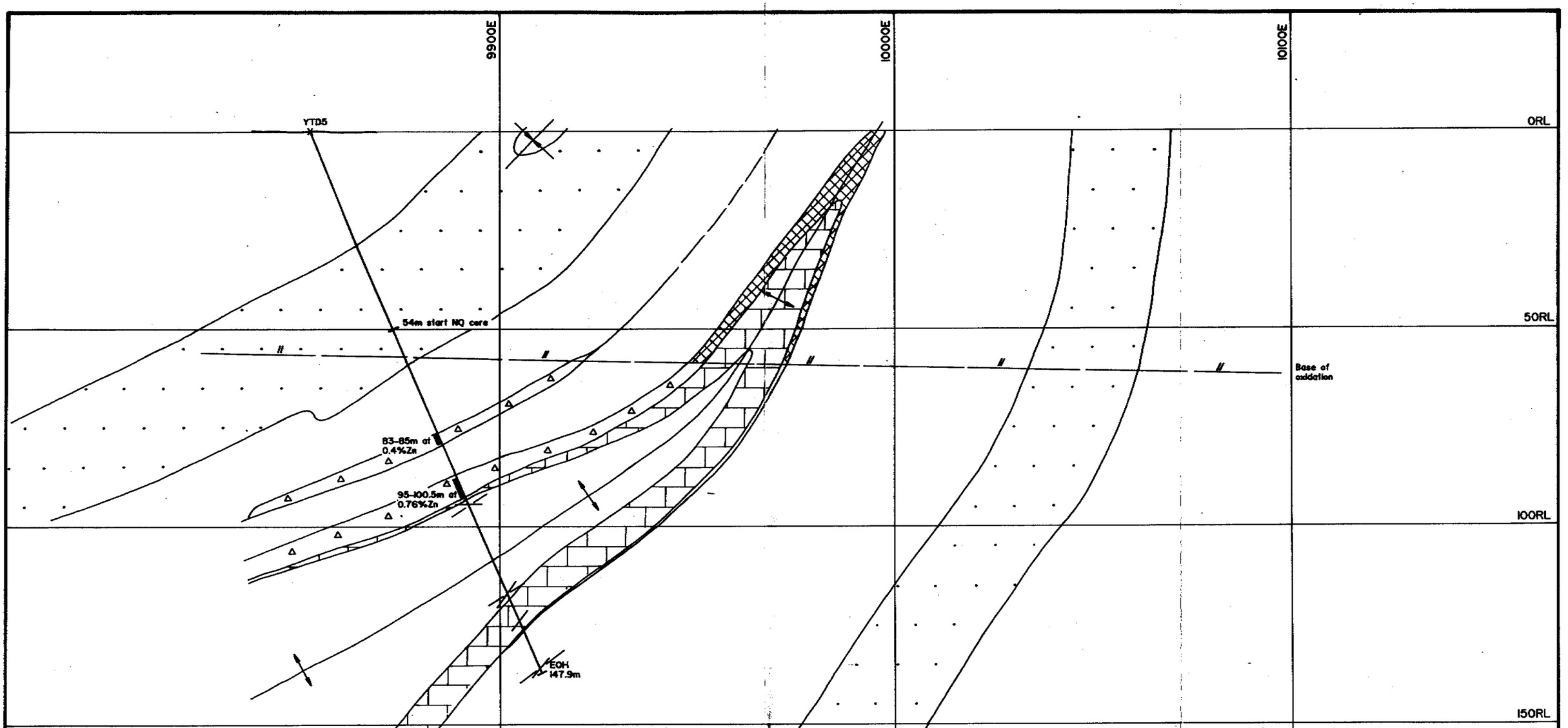
BURRUNDIE PROJECT

YELLOWTRACK ANTICLINE

STRATIGRAPHY

I. K. Butler

FIGURE 2



depth	dip	azimuth (mag)
0	-69	60
54	-66	in rods
84	-66	64
115	-66	63
147.9	-66	60

Aztec Mining Company Ltd

BURRUNDIE PROJECT
YELLOW TRACK ANOMALY
9850N CROSS SECTION

PROJ. NAME BURRUNDIE NO

Figure 3

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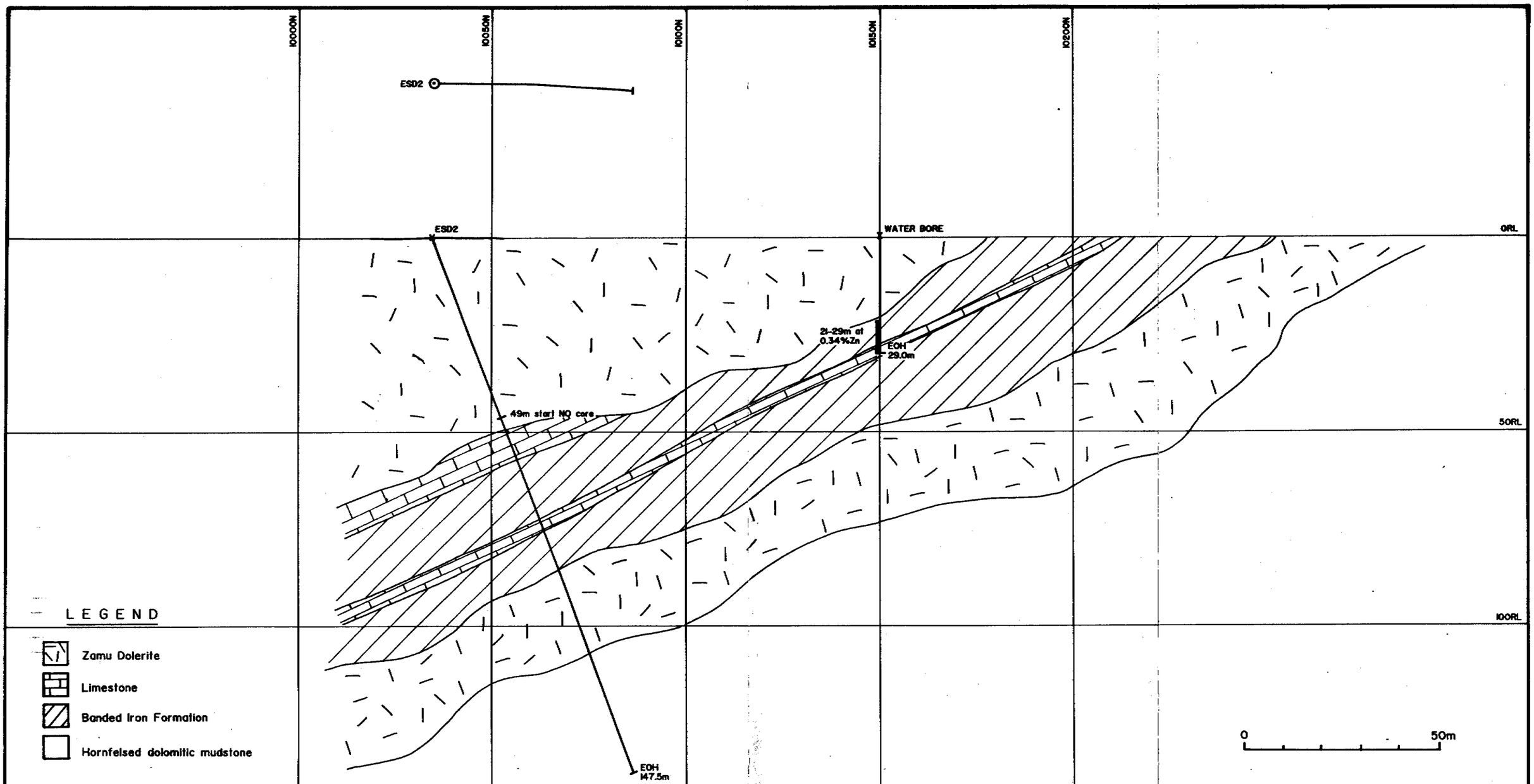


LEGEND

- Zamu Dolerite
- Limestone
- Banded Iron Formation
- Hornfelsed dolomitic mudstone

depth	dip	azimuth (mag)
0	69	40
49	69	41.5
90	69	43
147	69	44

SECTION AT 40° MAG

Aztec Mining Company Ltd

BURRUNDIE PROJECT
EMERALD SPRINGS ANOMALY
SECTION 10150E

PROJ. NAME. BURRUNDIE NO.

Figure 4

COMPILED: I.K.Butler	SCALE: 1 : 1,000
DRAWN: M.C.B	DATE: DEC. 1993

9. REFERENCES

Butler I.K., 1993. Annual Report for Year Two Exploration Licence 7127 Burrundie Dome Area, NT. *Unpublished Report for the NT Department of Mines and Energy Library.*

Butler I.K., 1993. Annual Report for Year Two Exploration Licence 7391. *Unpublished Report for the NT Department of Mines and Energy Library.*

Butler I.K., 1992. Annual Report for Year Two Exploration Licence 7127. *Unpublished Report for the NT Department of Mines and Energy Library.*

Conan-Davies M.S., 1990 Western Mining Corp, Final Relinquishment Report for El 6529 Emerald Springs. *Unpublished Report for the NT Department of Mines and Energy Library*

Dreverman P.C., 1990 Arimco NL. Relinquishment Report for El 4734 Saunders Creek. *Unpublished Report for the NT Department of Mines and Energy Library.*

Eupene G.S., Nicholson P.M. 1990 Iron Blow and Mount Bonnie Polymetallic Deposits pp 755-758 Geology of the Mineral Deposits of Australia and Papua New Guinea AUSIMM.

Harris J.L., 1990 Cyprus, Final Report for Exploration Licence 4734, NT. *Unpublished report for the NT Department of Mines and Energy Library.*

Heyworth J.L., 1990 Cyprus, Final Report for Exploration Licence 4734, NT. *Unpublished Report for the NT Department of Mines and Energy Library.*

Heyworth D.S., 1988 CSR Limited. Final Report for Exploration Licence 3138, Burrundie, Northern Territory. *Unpublished Report for the NT Department of Mines and Energy Library.*

Kettlewell D.C., 1990. Carpentaria Gold. Relinquishment Report for Mineral Claims N3142 - 3147 and N 3162 - 3167 Emerald Springs NT. *Unpublished Report for the NT Department of Mines and Energy Library.*

Miller G., 1089 Cyprus. Partial Relinquishment Report El 4734 NT. *Unpublished Report for the NT Department of Mines Energy Library.*

Nicholson, P.M., Eupene G.S. 1984. Controls on Gold Mineralisation in the Pine Creek Geosyncline PP 337-396. The Aus.I.M.M. Conference, Darwin, NT. August 1984.

Nicholson P.M., Radford N.W., 1982, Geopeko. Annual Report for First Year of Tenure, Exploration Licence 3138. *Unpublished Report for the NT Department of Mines and Energy Library.*

Nord Resources (Pacific) Pty Ltd 1991. Mineral Claims N 598 to N 622 Cessation Report. *Unpublished Report for the NT Department of Mines and Energy Library.*

Oceania Exploration and Mining NL 1990. Final Report, Exploration Licence 6264 Saunders Creek. *Unpublished Report for the NT Department of Mines and Energy Library.*

Orridge G.R., 1989 Nord Joint Venture, Report on Exploration Work Carried Out During 1988 in the Dawns Range and Burrundie Dome Claim Blocks. *Unpublished Report for the NT Department of Mines and Energy Library.*

Rolfe G.K., Radford N.W., 1983. Geopeko. Annual Report for Second Year of Tenure, Exploration Licence 3138. *Unpublished Report for the NT Department of Mines and Energy Library.*

APPENDIX I

ANALYTICAL RESULTS

SOIL SAMPLING

ASSAYCORP PTY LTD

A.C.N. 052 982 911

174 Ward Street, Pine Creek, N.T. 0847

P.O. Box 41, Pine Creek, N.T. 0847

Telephone (089) 76 1262

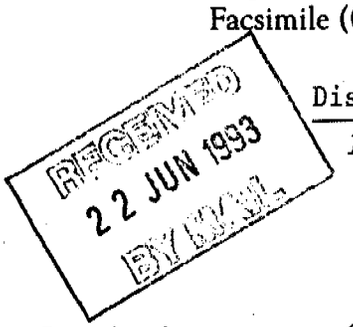
Facsimile (089) 76 1310

ASSAY CODE: AC 07617

Woodcutters Joint Venture

Burrundie Soils (-40#)

EL7391 YELLOWTRACK SOUTH.



Distribution

Ian Butler

Client Reference: 3710

Project :

Cost Code:

Date Received: 08/06/1993

Number of Samples: 48

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Cu	AAS/MA-3	Prec. ± 10%	1	ppm
Pb	AAS/MA-3	Prec. ± 10%	2	ppm
Zn	AAS/MA-3	Prec. ± 10%	1	ppm

Authorisation: Ray Wooldridge

Report Dated: 14/06/1993

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 07617

Sample	Cu (ppm)	Pb (ppm)	Zn (ppm)	N	E
576319	49	54	111	6700N	9275E
576320	40	39	60		9250
576321	37	41	48		9225
576322	42	13	43		9200
576323	46	4	42		9175
576324	48	6	31		9150
576325	<< Sample not received >>				
576326	31	5	46		9100
576327	82	8	33	7000N	9200
576328	42	9	33		9225
576329	37	7	25		9250
576330	27	3	15		9275
576331	26	5	7		9300
576332	48	<2	19		9325
576333	60	2	51		9350
576334	103	4	113		9375
576335	98	9	74		9400
576351	47	5	55	6800N	9100
576352	57	26	68		9150
576353	40	3	61		9175
576354	51	2	75		9200
576355	45	9	68		9225
576356	42	7	78		9250
576357	61	3	77		9275
576358	45	8	102		9300

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 07617

Sample	Cu (ppm)	Pb (ppm)	Zn (ppm)	N	E
576359	58	<2	100	6800	9325
576360	57	3	154		9350
576361	32	33	37		9375
576362	41	5	74		9400
576363	62	29	95		9425
576364	47	13	50		9450
576365	49	10	58		9475
576366	58	6	46		9500
576367	21	<2	45	6900	9450
576368	54	<2	139		9425
576369	74	<2	125		9400
576370	87	<2	142		9375
576371	86	<2	125		9350
576372	39	9	49		9325
576373	40	12	115		9300
576374	32	9	53		9275
576375	40	14	41		9250
576376	43	5	36		9225
576377	51	7	39		9200
576378	46	11	41		9175
576379	64	3	51		9100
576380	66	13	30		9150
576381	64	16	28		9125

APPENDIX II

ANALYTICAL RESULTS

ROCK CHIP SAMPLING

ASSAYCORP PTY LTD

A.C.N. 052 982 911

174 Ward Street, Pine Creek, N.T. 0847

P.O. Box 41, Pine Creek, N.T. 0847

Telephone (089) 76 1262

Facsimile (089) 76 1310

ASSAY CODE: AC 07644

RECEIVED 22 JUN 1993 BY MAIL

Distribution

Ian Butler

Woodcutters Joint Venture

Burrundie Rock Chips

EL 7391

BOBS KNOB ANOMALY

Client Reference: 3615

Project :

Cost Code:

Date Received: 10/06/1993

Number of Samples: 8

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA/GC	Acc. ± 15%	0.01	ppm
Au(R)	FA/GC	Acc. ± 15%	0.01	ppm
Cu	AAS/MA-3	Prec. ± 10%	1	ppm
Pb	AAS/MA-3	Prec. ± 10%	2	ppm
Zn	AAS/MA-3	Prec. ± 10%	1	ppm
As	AAS/MA-3	Prec. ± 10%	1	ppm

Authorisation: Ray Wooldridge

Report Dated: 17/06/1993

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
P.O. Box 41, Pine Creek, N.T. 0847
Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 07644

Sample	Au (ppm)	Au(R) (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
586818	0.01		228	9	180	157
586819	<0.01	<0.01	280	12	131	240
586820	0.02		508	63	209	92
586821	0.02	0.01	194	24	100	168
586822	0.02		211	39	70	32
586823	0.01		284	41	555	181
586824	0.01		65	19	266	114
586825	0.03	0.02	92	16	332	235

ASSAYCORP PTY LTD

A.C.N. 052 982 911

174 Ward Street, Pine Creek, N.T. 0847

P.O. Box 41, Pine Creek, N.T. 0847

Telephone (089) 76 1262

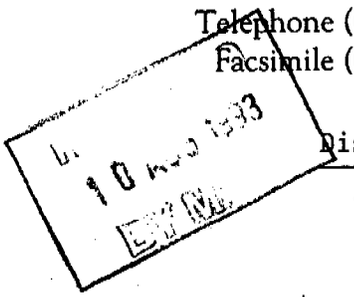
Facsimile (089) 76 1310

ASSAY CODE: AC 08715

Woodcutters Joint Venture

EL7127 BURRUNDIE

FOLLOW UP GOLD



Distribution

Ian Butler

Client Reference: 3624

Project :

Cost Code:

Date Received: 31/07/1993

Number of Samples: 7

Sample Preparation

Analysis	Analytical Technique	Precision & Accuracy	Detection Limit	Data Units
Au	FA50	Acc. ± 15%	0.01	ppm
Au(R)	FA50	Acc. ± 15%	0.01	ppm
Cu	AAS/MA-3	Prec. ± 10%	1	ppm
Pb	AAS/MA-3	Prec. ± 10%	2	ppm
Zn	AAS/MA-3	Prec. ± 10%	1	ppm
As	AAS/MA-3	Prec. ± 10%	1	ppm

Authorisation: Ray Wooldridge

Report Dated: 02/08/1993

ASSAYCORP PTY LTD
A.C.N. 052 982 911
174 Ward Street, Pine Creek, N.T. 0847
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Telephone (089) 76 1262
Facsimile (089) 76 1310

ASSAY CODE: AC 08715

Sample	Au (ppm)	Au(R) (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
582884	<0.01		29	<2	45	129
582885	<0.01	<0.01	55	<2	187	114
582886	<0.01	<0.01	29	<2	156	121
582887	<0.01	<0.01	34	<2	95	189
582888	<0.01		65	<2	207	164
582889	<0.01		18	<2	33	614
582890	<0.01	<0.01	41	<2	75	60

SampNo	Au	Cu	Pb	Zn	As	North	East
581950	.00	12	43	778		8499734	783573
581952	.00	14	9	721		8499781	783505
581967	.00	71	22	238		8498902	783960
581968	.00	36	18	108		8499043	783963
581969	.00	67	17	136		8498963	784026
581970	.00	168	18	227	166	8499476	785015
581971	.00	232	17	49		8499420	784961
581972	.00	281	24	108		8499408	784873
581973	.00	462	25	164		8499020	784985
581974	.00	541	22	319	106	8499027	784829
581975	.00	80	9	72		8498743	784620
581976	.00	153	11	200		8498771	784570
581977	.00	79	8	179		8498813	784601
581978	.00	58	9	64		8498831	784536
581979	.00	73	12	43	118	8498869	784506
581980	.00	417	16	110	309	8498906	784472
581981	.00	297	20	83	123	8498962	784438
581982	.00	170	11	140	102	8499001	784432
581985	.00	43	45	10		8497943	785349
581986	.00	47	20	14		8498136	785195
581987	.00	122	11	99		8498518	784865
581988	.00	88	10	272		8498558	784827
581989	.00	90	13	353		8498594	784791
581990	.00	128	10	131		8498555	784748
581991	.00	115	9	137		8499610	784705
581992	.00	547	28	166		8498847	784965
581993	.00	146	30	26		8498859	785092
581994	.00	226	26	154		8498739	785098
581995	.00	82	116	63	109	8499223	785283
581996	.00	81	41	79		8499580	785423
581997	.00	54	12	75		8499740	785312
581998	.00	62	9	360		8499855	785299
581999	.00	99	12	163	651	8499977	785273
582000	.00	54	19	179		8499987	785197

SampNo	Au	Cu	Pb	Zn	As	North	East
84553	.00	380	110	80	910	5488	9847
84554	.00	410		300	770	5578	9723
84555	.00	260	50	280	760	5470	9373
84556	.20	280		140	610	4634	9400
84557	.00	80	130	690	700	4936	9450
84558	.00	440		200	1000	5131	9528
84559	.00	190	240	600	1260	5187	9537
84560	.00	400		120	1840	5333	9647
84561	.00	420		60	860	5467	9513
84562	.00	380		360	1350	5377	9649
84563	.00	40		400	650	8458	10762
84564	.00	40		510	900	8397	10783
84565	.00	50		200	790	8403	10713
84566	.36	320	120	330	3360	9757	10215
84567	.89	530	500	570	4420	9757	10215
84568	.00			110		9965	9905
84738	.00	77	16	85		10694	10616
84739	.00	73	19	84		10742	10613
84740	.00	60	16	59		10656	10631
84741	.00	60	17	93		10611	10627
84742	.03	210	43	280	160	9888	9972
578351	.00	64	10	204		9420	12539
578352	.00	259	14	187		9464	12525
578353	.00	62	10	163		9809	12430
578354	.01	216	14	211		9874	12451
578355	.00	104	13	16		11732	11203
578356	.00	199	42	177	607	9963	12499
578357	.00	179	21	418		10031	12512
578358	.00	76	39	215	485	10104	12497
578359	.00	316	17	344		10171	12484
578360	.00	101	11	133		10265	12511
578361	.00	144	18	54	155	10290	12587
578362	.00	114	13	192		10334	12518
578363	.00	59	12	206		10320	12471
578364	.00	61	27	79	906	10355	12489
578365	.00	84	15	72		10116	12372
578366	.00	55	13	78		10418	12506
578367	.00	60	17	342	660	10503	12503
578368	.00	71	86	310		10560	12474

SampNo	Au	Cu	Pb	Zn	As	North	East
578369	.00	238	72	674		10603	12446
578370	.00	73	11	86		10632	12592
578371	.00	90	22	50	893	10718	12602
578372	.00	56	20	40	412	10737	12536
578373	.00	65	24	63		10778	12538
578374	.00	52	3	68		10780	12602
578375	.00	41	15	43	473	11205	12350
578376	.00	208	56	1470	161	11141	12388
578377	.00	85	23	3350		11136	12422
578378	.00	62	60	1110		11192	12464
578379	.00	56	6	82		11107	12447
578380	.00	138	10	156	411	11047	12519
578381	.00	32	14	64	239	10998	12572
578382	.00	208	15	249	168	11100	12535
578808	.00	214	85	42	645	7832	9810
578809	.00	142	51	68	739	7832	9810
578810	.00	82	20	386	836	11605	10016
578811	.00	196	29	268	2351	11266	10239
578812	.03	240	11	75		4107	9792
578813	.09	244	16	74	145	4265	9909
578814	.06	155	4	342		4538	10175
578815	.00	291	2	211	190	3851	10484
578816	.02	125	32	349	246	3595	10494
578817	.20	47	3	109	440	3975	10707
578818	.06	260	7	312	107	4406	10512
578819	.01	371	12	97	410	4991	10429
578820	.01	465	18	103	280	5885	10192
578821	.11	550	20	178	630	5842	10120
578822	.00	566	319	243	102	5307	9328
578823	.00	282	22	46		5371	9343
578824	.00	331	26	358		5635	9402
578825	.00	243	16	256	298	6032	9563
578826	.00	177	190	161		5976	9607
578827	.00	206	15	547		6086	9424

ASSAYCORP PTY LTD
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Telephone (089) 76 1262
Facsimile (089) 76 1310

EL 7900
ROCK CHIPS.

ASSAY CODE: AC 04245

Sample	Au (ppm)	Au(R) (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)
581922	<0.01	<0.01	289	13	124	<0.5	214
581923	<0.01		288	52	547	<0.5	247
581924	<0.01		302	81	68	1.1	596
581925	<0.01		216	109	37	0.7	331
581926	<0.01		389	47	53	<0.5	475
581927	<0.01		21	11	617	<0.5	<100
581928	<0.01		34	20	130	<0.5	214
581929	0.13	0.16	14	23	26	<0.5	501
581930	<0.01		28	13	127	<0.5	196
581931	<0.01		47	7	303	<0.5	274
581932	<0.01		39	5	179	<0.5	175
581933	9.15	10.0	22	10	97	2.5	466
581934	0.18	0.18	42	9	104	<0.5	<100
581935	<0.01	<0.01	96	28	73	<0.5	239
581936	<0.01		81	24	67	<0.5	249
581937	<0.01		68	97	553	<0.5	<100
581938	<0.01		120	22	60	<0.5	288
581939	<0.01		42	13	51	<0.5	<100
581940	<0.01		146	6	236	<0.5	<100
581941	<0.01		400	20	83	<0.5	<100
581942	<0.01		334	38	31	0.7	208
581943	<0.01		189	21	169	<0.5	<100
581944	<0.01		190	282	76	<0.5	1550
581945	<0.01		252	96	53	<0.5	1004
581946	<0.01		31	8	1458	<0.5	<100

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ASSAY CODE: AC 04245

Sample	Au (ppm)	Au(R) (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	As (ppm)
581947	<0.01		75	30	70	<0.5	<100
581948	<0.01		36	4	625	<0.5	<100
581949	<0.01		81	4	1082	<0.5	<100
581950	<0.01	<0.01	12	43	778	<0.5	<100
581951	<0.01		306	87	878	<0.5	422
581952	<0.01		14	9	721	<0.5	<100

APPENDIX III

DRILL LOGS

YTD 5 AND ESD 1

WOODCUTTERS JOINT VENTURE
CORE LOGGING SHEET

Date: 20/12/93 Logged by: I. Butler

Hole: YTD5 Page No. 1 of 2

Distance from collar	Recovery %	RQD	Weathering	Structure	Cleavage	Bedding	Sense	Stratigraphy	Rock type	Dolomitic slate %	Cololutite %	Mineral Percentages: Galena	Sphalerite	Sulphosalts	Pyrite	Chalcopyrite	Stibnite	Arsenopyrite	Pyrrhotite	Quartz	Carbonate	HMR	Sample Number	Comments
56.5																								BANDED MUDSTONE
60.0	>90	4				80									tr									Grey-black banded abc mudstone. Sericitic. W Py
63.0	60	3																						63.5
66.0	15	3													1									HEMATITIC CBC MUDSTONE
70.0	>90	4													1									Massive hem-py mudstone. Decreasing down hole. Py occurs dom in vns but also dissem. throughout.
72.0	50	3													1									71.0
74.3	80	3													tr-1									CBC MUDSTONE
76.6	80	4				85																		Dk black sooty carbonaceous mudstone. W py. Increasing pale yell-green f.gr. clay? mineral dissem. throughout
79.6	65	3																						
82.2	80	2																						83.2
84.9	75	3	23.2	B1																				Red-brown (ox) SIDERITE BRECCIA. Siderite-chl-act breccia. cbc Ssm clasts. Hem. at end
86.1	>90	1	85.1																					85.1
88.5	80	1																						ALTERED CBC MUDSTONE
91.5	60	2																						W. hematitic W Py mic (muscovite) cbc Ssm/Slst. Some pale grey fgr. mudstone (Sericitic) beds.
94.7	80	1	92.9																					92.9 - Sid. breec.
97.6	60	1	95.4	B1																				95.4
99.4	70	1	100.5	B1																				SIDERITE BREECIA
102.4	>90	1																						As for 83.2 - 85.1
104.2		1																						99.4 - core loss - limestone (thin 30cm)
107.2		2																						100.5
110.3		3	110.4	V2		0																		ALTERED CBC MUDSTONE
112.0		3			80	70	0																	~~hem~~ S. cleaved. Abund musc? oxidizing and crumbling in trays.
116.1		3													t2									104.2
119.6		3																						CBC MUDSTONE. W. banded and laminated in places grey-black abc Ssm/Slst. W. py.
123.0		2	123	SQV?																				110.4 - 0.3m milky qtz vn ± oxid py vughs.
125.7		2	124		20	60	S																	116.1 - py v/fs thin
127.0	↓	2																						117.4 - ox py + qtz vn. thin silty beds.
																								S. cleaved, qtz-carb veining.

1. Spotted slate
2. Slate
3. Dololutite
4. Laminated dololutite
5. Tuff marker bed
6. Massive sulphides
7. Calcareous dyke
8. Dolomite dyke
9. Breccia
10. Leached slate
11. Dolomitic slate
12. Cream dololutite
13. Stromatolitic dololutite

Dip angles measured with respect to long core axis, sense measured with respect to cleavage

WOODCUTTERS JOINT VENTURE
CORE LOGGING SHEET

Date: 20/12/93
Logged by: I. Butler

Hole: YTD5
Page No. 2 of 2

Distance from collar	Recovery %	RQD	Weathering	Structure	Cleavage	Bedding	Sense	Stratigraphy	Rock type	Dolomitic slate %	Dololutite %	Mineral Percentages: Galena	Sphalerite	Sulphosalts	Pyrite	Chalcopyrite	Stibnite	Arsenopyrite	Pyrrhotite	Quartz	Carbonate	HMR	Sample Number	Comments
127.0	60	4													1-1								127	LIMESTONE Pale creamy banded limestone.
130.4																								
133.0	60	4				60																		
135.2	60	4																						
138.2	50	2																					137	CBR MUDSTONE/SILTSTONE
140.3	90	4				10																		Banded text. Mudstone-siltstone beds. Core oxidizing in patches.
142.1		3				0																		
143.8		2																						
145.7		2																						
147.9		4			75	65									↓									thin (2-4cm) alt beds musc-chl 147.9 EOH

1. Spotted slate
2. Slate
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5. Tuff marker bed
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Dip angles measured with respect to long core axis, sense measured with respect to cleavage

Description

(ppm) Geology urgent samples 28/7/93

LAB I.D.	SAMPLE	#	Pb	Zn	Ag	Fe	Sb	As	Cd	Cu	Bi	MgO	Ni	Co
11435	Good YTDS ①	1	0.05	0.40	<10	30.6	<0.01	<0.01				5.26	83.0 –	85
36	YTDS ②	2	0.05	0.64	<10	26.4	<0.01	<0.01				3.27	95 –	96.5
37	YTDS ③	3	0.01	0.96	<10	31.4	<0.01	<0.01				3.53	96.5 –	98.5
11438	YTDS ④	4	0.03	0.64	<10	22.4	<0.01	<0.01				2.63	98.5 –	100.5
		5												
		6												
		7												
		8												
		9												
		10												
		11												
		12												
		13												
		14												
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		23												
		24												
		25												

WOODCUTTERS JOINT VENTURE
CORE LOGGING SHEET

Date: 22/12/93 Logged by: I. Butler

Hole: ESD 2 Page No. 1 of 2

Distance from collar	Recovery %	RQD	Weathering	Structure	Cleavage	Bedding	Sense	Stratigraphy	Rock type	Dolomitic slate%	Dololutite %	Mineral Percentages: Galena	Sphalerite	Sulphosalts	Pyrite	Chalcopyrite	Stibnite	Arsenopyrite	Pyrrhotite	Quartz	Carbonate	HMR	Sample Number	Comments
49.5															1									DOLERITE Dk grey green Pelted text.
52.3	70	4																						52.6 LIMESTONE
55.3		5																						Cream col calcite – carbonate mineral + dissem chl. Vughy text. W. ox. Little or no sulphs.
57.0		5																						
60.0		5																						61.3 SANDEN IRON FORM.
63.7	70	2													2									Dk black-green massive act-chl (f.gr.) glmass ± garnets dissem throughout. Siderite in patches. Carbonate facies. Rare cht beds.
65.5	90	4																						
68.5		5				85																		
71.3		4																						
74.0		5																						
76.9																								78.1 LIMESTONE 80.5
81.0																								BIOT-CHL-FELD HORNFELS Biotite-chlorite-garnet-feld. Recrystalised sed. Rare cht. pod. Dissem pale min. andolusite? Pyritic.
84.0																								
87.0																								
91.5		4				90																		91.4 DOLERITE?
94.8		5																						Biot-chl-felsp felted text rock. Pyritic. Greenish-grey colour.
97.5		4																				9%	pet.	
100.8		2																						
102.6		3																						
106.5		3																						
106.7		4																						
110.1		4																						
112.5		5																						
115.4			114 115	VIVIII																			114 115	114.6 = qtz, py, carbonate HORNFELSED SEDIMENT
119.3															1									Pale grey, felsdspathic massive rock ± varying amounts of biot-chl. Pyritic
123.4																								

1. Spotted slate
2. Slate
3. Dololutite
4. Laminated dololutite
5. Tuff marker bed
6. Massive sulphides
7. Calcareous dyke
8. Dolomite dyke
9. Breccia
10. Leached slate
11. Dolomitic slate
12. Cream dololutite
13. Stromatolitic dololutite

Dip angles measured with respect to long core axis, sense measured with respect to cleavage

WOODCUTTERS JOINT VENTURE
CORE LOGGING SHEET

Date: 22/12/93
Logged by: I. Butler
Hole: ESD2
Page No. 2 of 2

Distance from collar	Recovery %	RQD	Weathering	Structure	Cleavage	Bedding	Sense	Stratigraphy	Rock type	Dolomitic slate%	Dololutite %	Mineral Percentages: Galena	Sphalerite	Sulphosalts	Pyrite	Chalcopyrite	Stibnite	Arsenopyrite	Pyrrhotite	Quartz	Carbonate	HMR	Sample Number	Comments
123.4															1								1241 pet.	
126.0	90	5													1									
129.7															1-2				tr					
132.0						85																	1305 pet	
134.5															1-2									
137.5															1-2									147.5 EOH
140.6																								
143.7																								
147.5																								

1. Spotted slate
2. Slate
3. Dololutite
4. Laminated dololutite
5. Tuff marker bed
6. Massive sulphides
7. Calcareous dyke
8. Dolomite dyke
9. Breccia
10. Leached slate
11. Dolomitic slate
12. Cream dololutite
13. Stromatolitic dololutite

Dip angles measured with respect to long core axis, sense measured with respect to cleavage

APPENDIX IV

GROUND MAGNETICS

BOBS KNOB ANOMALY

MAGNETICS BURRUNDIE ZONE
YELLOWTRACK STH ANOMALY 3/6/93

BASE STATION READINGS

Time :			Time
2142 pm	47930	STN 1 5500N 9600E	
Sig to Noise	0·4/2 = 1/5		
3:36	47920	STN 1	
3:55	47919	STN 1	
5-54	47909	STN 1	

READINGS
5600N

		start 2142 pm L		
9600E	47980		9600E	47958
	47912			47953
	47898			47951
	47954			47951
9750E	47940		9550E	47955
	47918			47994
	47976			47970
	47949			47967
9700E	47930		9500E	48015
	47956			47999
	47957			47978
	47968			48013
9650E	47986		9450E	48015
	47977			47891
	47962			47987
	47952			47843

5500N			
9400E	47987		48000
	47965		47974
	47967	9400E	48014
	47957		48039
9350E	47909		48027
	47922		48027
	47920	9450E	48023
	47887		48016
9300E	47856 Time 3:04		48004
			48042
5600N		9500E	48006
9300E	47512 Time 3:07		48037
	47956		48046
	47890		48038
	47951	9550E	47850
9350E	47945		48062
	47975		48045
	47945	9800	48072 Time 3:50
9600E	48014	5700N	
	48018	9800E	48184 Time 3:59
	48085		48129
	48005		48094
9650E	48011		48091
	48000	9750E	48045
	48022		48052
	47985		48047
9700E	48013		48088
	47980	9700E	48009
	47988		48004
	47983		47922
9750E	48160		48013
	48024	9650E	47983
	48033		48054
	48067		47994

Black Ferruginous Scree

Black Ferruginous Quartzite

5700N

	47957
9600E	47999
	47936
	47980
	47986
9550E	47999
	47996
	48001
	48022
9500E	48012
	48015
	48025
	48030
9450E	48042
	48025
	47984
	48005

9400E	48013
	48028
cliff black mentioned on top	48020
	48006
9350E	47998
	48014
	48021
	47980
9300E	47950

5800N

9300E	479480
	48048
	48039
	48050
9350E	48053
	48055

	48145
	48093
	48114
9400E	48079
	48089
	48080
	48070
9450E	48069
	48067
	48056
	48044
9500E	48026
	48012
	48076
	48070
9550E	47970
	47984
	47982

	47963
9600E	47960
	47996
	47968
	48029
9650E	47995
	47935
	48016
	47930
9700E	47999
	48005
	48029
	48028
9750	48047
	48067
	48111
	48143

5800N

9800E 48169 CONT.

5900N

9700E 47918

47926

47974

47886

9650E 47985

47879

47819

47936

9600E 47899

47893

47869

47898

9550E 47937

47996

47987

47982

9500E 47958 5-31

9350E

9300E

47909

47874

47953

9550E 47959

47988

47982

48001

9500E 48000

48034

48049

48007

9450E 48051

48043

48017

48037

9350E 48007

5800N CONT

5900E 800 ouvr

	48188	g/long Sy-clay alteration & Bx-work.
	48221	
	48231	
9850E	48311	
	48311	
	48341	
	48394	
9900E	48441	
	48459	
	48461	
	48480	
9950E	48534	
	48505	
	48496	5-06.
10000E		

TIE LINE		TIME	READING
5900N	9400E	5:35	48055
5800N	9450 E	5:41	48059
5700	9800 E	5:47	48038
5500	9800 E	5 54	47909

4/6/93

Magnetics BOBS KNOB ANOMALY

Base Station Readings

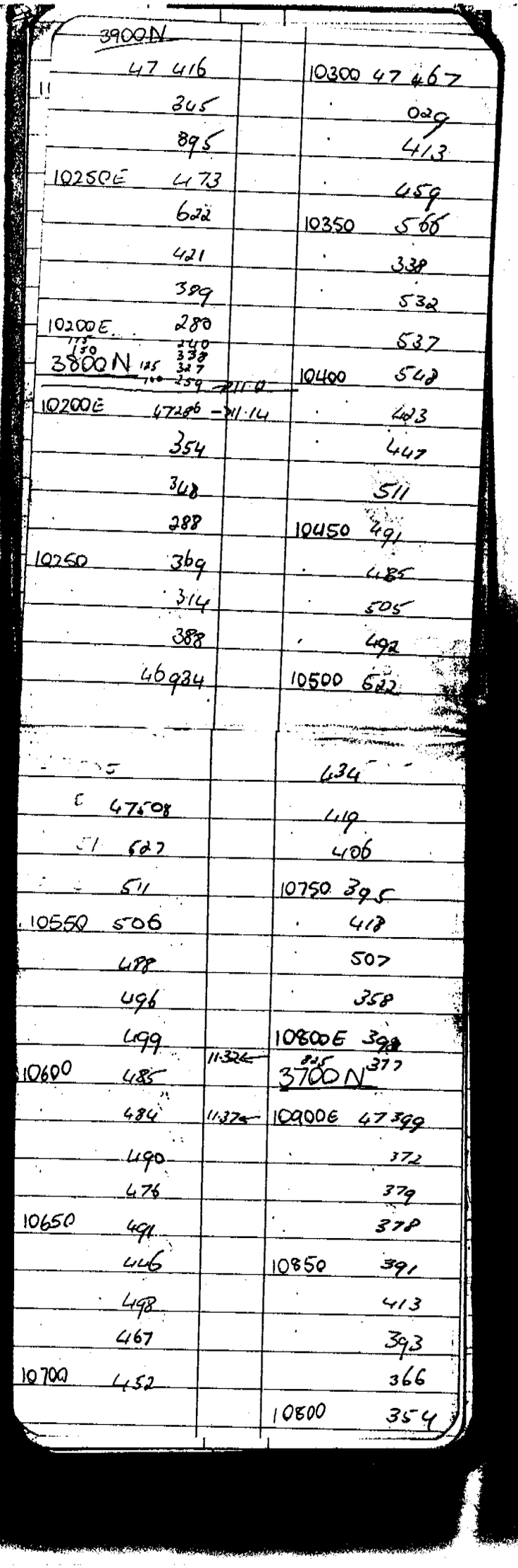
STN 1	1050E	3500N
10:28 AM		47444
12 noon		47430
12:10 pm		47436
12:52 pm		47412
2:33 pm		47392

4000N

10200E	47574	→ 0.3g	10400	47576
	47411			47583
	47918/924			47492
	47018/021/030			47442
10250	47553		10450	47521
	47577			47443
	47277			47467
	47621			47460
10300	47501		10500	47446
	47329			47439
	47536			47411
	47401			47391
10350	47437		10550	47417
	47527			47371
	47563			47422
	47671			47442
		10.52 →	10600E	47419

3900N

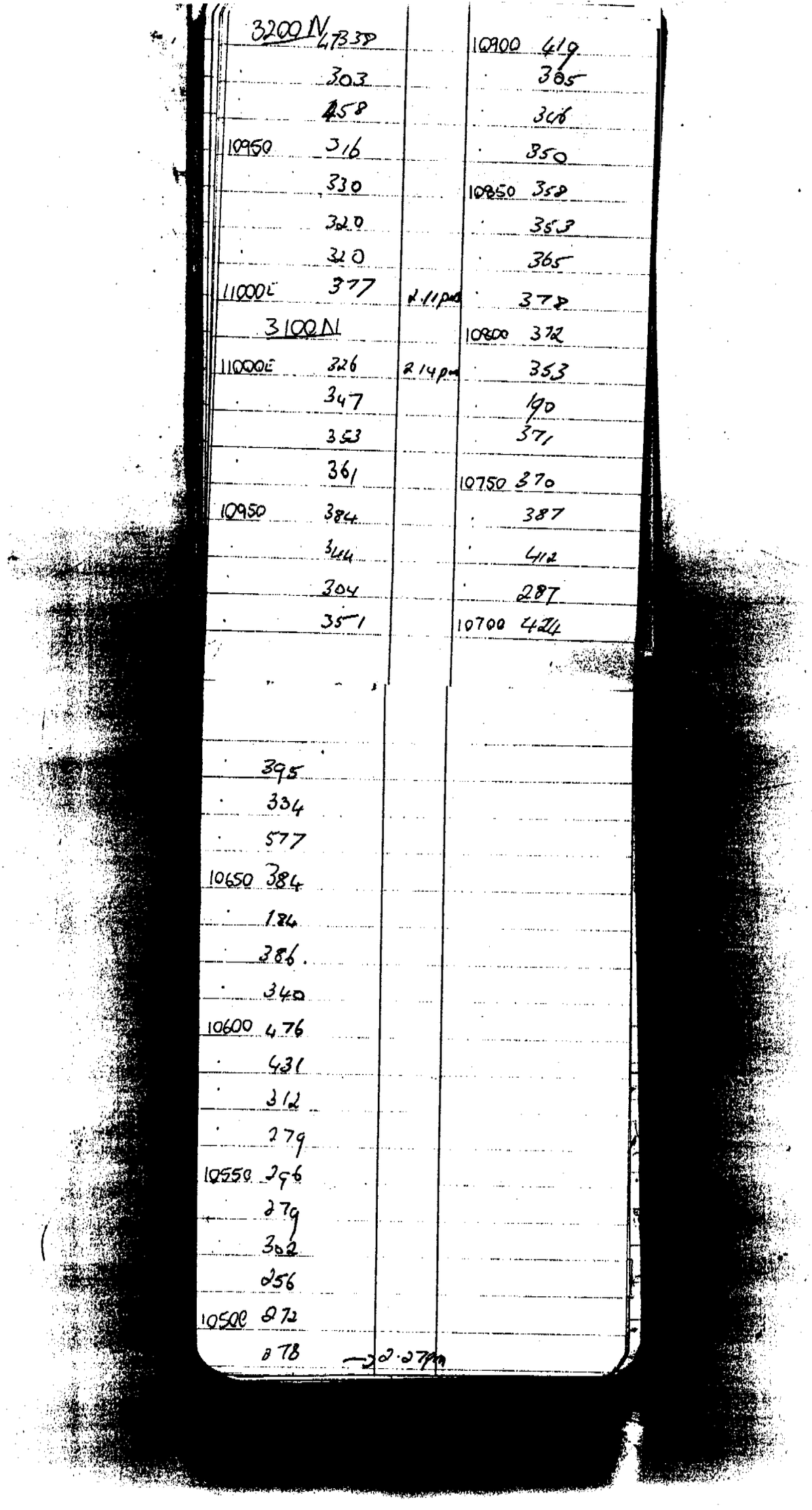
10700E	47391	1055		520
	47404			508
	446			629
	418		10450	634
10650	419			576
	432			675
	432			554
	533		10400	117
10600	464			575
	475			472
	470			617
	478		10350	541
10550	556			692
	474			273
	493			436
	502		10300	614
10500	548			



3900N
47 416
345
895
10250E 473
622
421
399
10200E 280
240
3800N 338
327
259
10200E 47286
354
348
288
10250 369
314
388
46934
47508
527
511
10550 506
488
496
499
10600 485
484
490
476
10650 491
446
498
467
10700 452
10300 47467
029
413
459
10350 566
338
532
537
10400 548
403
447
511
10450 491
485
505
492
10500 622
434
419
406
10750 395
418
507
358
10800E 398
3700N 377
10900E 47399
372
379
378
10850 391
413
393
366
10800 354

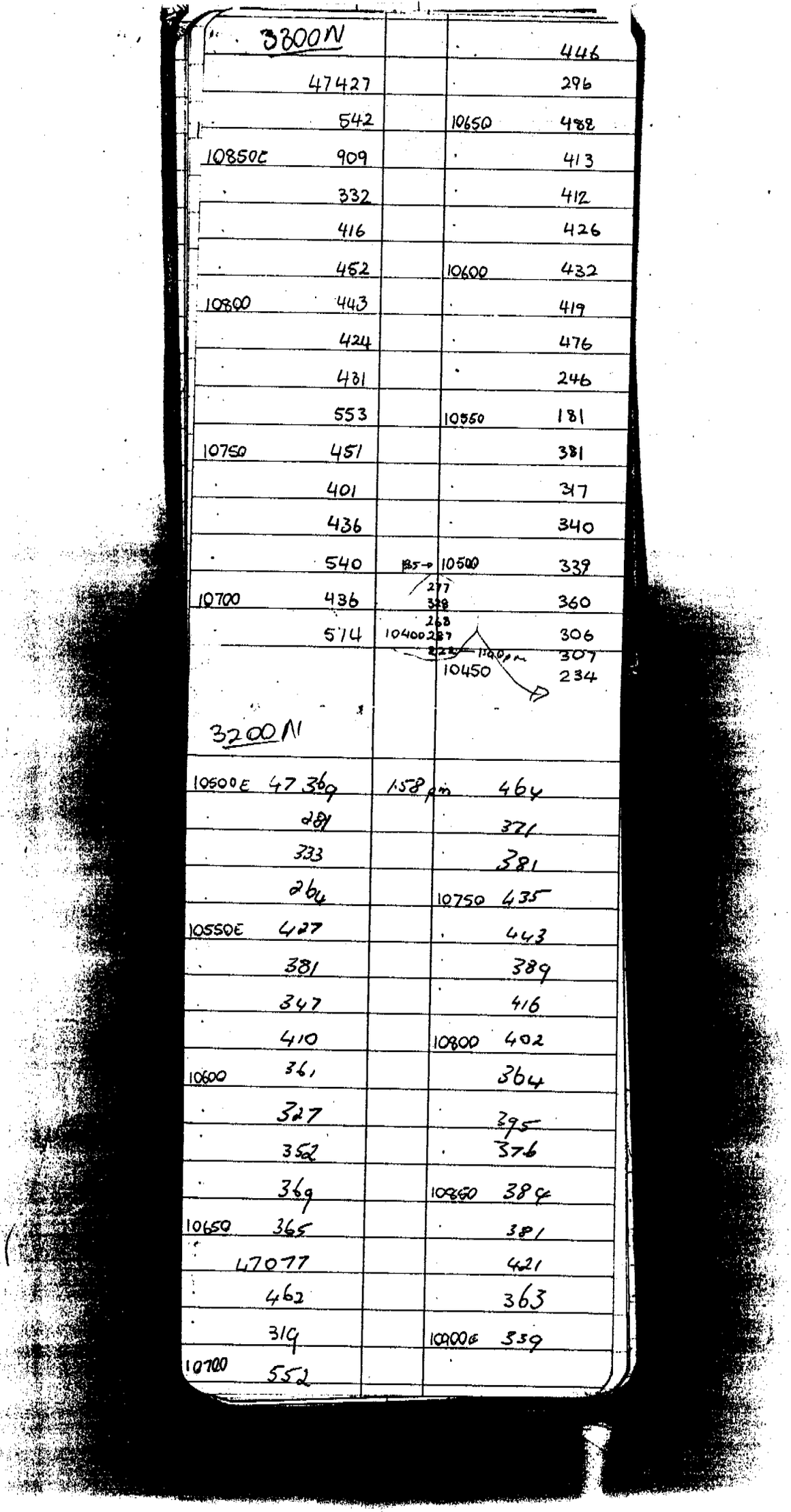
	3700N			238
	47240			558
	455			520
	461		10650	501
10750E	467			401
	475			479
	481			493
	471		10500	510
10700	464			485
	532			491
	533			480
	503		10450	447
10650	477			455
	647			479
	426			506
	48084		10400	400
10600	47550			
	47227			
	460			47580
	172			519
10350E	313			611
	328		10450	497
	353			483
	371			363
10300E	47378			485
3600N			10500	499
10300E	47272	12:15		472
	497			547
	525		Bxwk scrn	434
	753		10550	497
10350	363			513
	350			504
	385			47464
	353		10600E	48060
10400	482			47418

	3600N			47436
	47408			426
	541		10850	430
10650E	540	10/12/15 521		432
	524	365 365		405
	473	10950 [illegible] 12:34pm		395
	533	12:32→	10900	460
10700E	521		3500N	
	516	12:35pm	11000	47474
	509			547
	487			453
10750	481			421
	477		10950	231
	474			373
	472			462
10800	453			441
	441		10900	396
	47413			514
	404			522
	435		10650	488
10850	444			460
	444			333
	452			568
	468		10600	301
10800	472			585
	483			463
	483			526
	470		10650	250
10750	492			461
	505			405
	498			455
	510	12:52-	10500	412
10700	515			508
	536			47357



3200N	473E		10900	419	
	303			385	
	458			348	
10950	316			350	
	330		10850	358	
	320			353	
	320			365	
11000E	377	2.11pm		378	
3100N			10800	372	
11000E	326	2.14pm		353	
	347			190	
	353			371	
	361		10750	370	
10950	384			387	
	344			412	
	304			287	
	351		10700	424	
	395				
	334				
	577				
10650	384				
	184				
	386				
	340				
10600	476				
	431				
	312				
	279				
10550	296				
	279				
	302				
	256				
10500	272				
	278				

2.27pm



3800N

	47427		296
	542	10650	488
10850E	909		413
	332		412
	416		426
	452	10600	432
10800	443		419
	424		476
	481		246
	553	10550	181
10750	451		381
	401		317
	436		340
	540	10500	339
10700	436		360
	514	10400	306
		10450	307
			234

3200N

10500E	47369	1:58 pm	464
	281		371
	333		381
	264	10750	435
10550E	427		443
	381		389
	347		416
	410	10800	402
10600	361		364
	327		395
	352		376
	369	10850	384
10650	365		381
	47077		421
	462		363
	319	10900E	359
10700	552		

3500N					478
	47189				47349
10450E	409			Irratic *	46979
	341			10550	47454
	392				384
	341				326
10400	345	12:57			489
3400N				10600	453
10400E	47245	12:59			578
	411				383
	450				436
	224			10650	472
10450	374				492
	342				480
	356				535
	360			10700	488
10500	406				47482
	47484				784
	476			10950	305
10760	484				419
	476				342
	469				367
	400	1:19→		11000E	373
10800	455			3300N	
	364	1:21→		11000E	340
	350				379
	458				370
10850	419				358
	410			10950	368
	372				369
	318				444
10900	444				360
	414			10900	47497
	673				633

EL 7981

EL 7980

EL 7127

EL 7661

EL 7021

EL 7391

YELLOW TRACK ANOMALY

SNAKE TRACK ANOMALY

YELLOW TRACK SOUTH ANOMALY

EMERALD SPRINGS ANOMALY

BOB'S KNOB ANOMALY

BURRUNDIE

THE BANYANS

BURRUNDIE SIDING RUINS

EMERALD SPRINGS

To HAYES CREEK

To PINE CREEK

STUART HIGHWAY

NORTH AUSTRALIAN RAILWAY (ARAHURA-DARWIN)

BONNE RANGES

Aeromag anomaly highs

Area of detailed rock chipping

Soil sample traverse (50m intervals)

actinolite-chlorite lode

0 500 1000 1500 2000m.

Aztec Mining Company Ltd

BURRUNDIE PROJECT
YELLOW TRACK ANTICLINE
EXPLORATION SUMMARY

Enclosure I

PROJ NAME BURRUNDIE PROJECT

COMPILED I.K.Butler | SCALE 1 : 25,000

DRAWN M.C.B. | DATE: NOV 1992

Aztec Mining Company Ltd

EL 7021 AND 7127
YELLOW TRACK ANOMALY
GEOLOGY FACT MAP

Enclosure 3

PROJ. NAME. BURRUNDIE PROJECT **NO.** 7021/7127-01

COMPILED: J. Goulevitch / I.K. Butler | **SCALE:** 1 : 2,500

DRAWN: M.C.B. | **DATE:** SEPT 1992

GRID N 330°

MAG. N 30°

0 50 100 150 200m

Legend

- sub crop talus (fl boundary
- alluvium
- abundant quartz scree
- abundant metadolerite scree
- metadolerite
- creek
- track
- drill hole
- plunge of linear structures
- cross bedding
- facing direction
- S_1 foliation, axial plane
- S_0 bedding
- outcrop
- anticline
- fault

all	alluvium
act	actinolite
bn	brown
bw	boxwork/ed
bnd	band/ed
brecc	breccia/ted
cbc	carbonaceous
cht	chert
c	with
cmt	cemented
dol	dolomite
ferr	ferruginous
Fe	iron
fol	foliated
fl	float
gy	grey
gn	green
goss/g	gossan/ous
lim	limonite/ic
m	medium
msv	mussive
mv	mauve
o/c	out crop
pk	pink
qtz	quartz
rd	red
s	strong/ly
sil	siliceous
sh	shale
Ssm	mudstone
Slst	siltstone
stn	stain/ed
sub cr	sub crop
v	very
vn	vein/ed
w	weak/ly
BIF	Banded Iron Formation
8432L 22	Rock chip sample locations

- gossan/silicate/sulphide lode, quartz rubble and limonite after limestone
- banded siltstone/mudstone

EL 7127

EL 7981

EL 7021

EL 7980

EL 7391

GOAT TRACK ANOMALY

YELLOW TRACK ANOMALY

SNAKE TRACK ANOMALY

BIRD TRACK ANOMALY

YELLOW TRACK SOUTH ANOMALY

DONKEY TRACK ANOMALY

EMERALD SPRINGS ANOMALY

BOB'S KNOB ANOMALY

BUSHFIRE ANOMALY

STUART HIGHWAY

EMERALD SPRINGS ROADHOUSE

782 500 E

785 000 E

8 500 000 N

8 497 500 N

8 495 000 N

8 492 500 N

LEGEND

- Graded track
- 219 -40# Stream sediment sample
- x 328 Rock chip sample (1991)
- ● 272 -40# Soil sample (1991)
- ⊙ YTD 1 Diamond drill hole
- ○ YTP 1 Percussion drill hole
- Ground Magnetic Contours
- Limit of soil sampling (-40# 1992)

NOTE: All sample numbers prefixed by 84.
Prefix 578 and 581 are 1992 rock chip samples

N

0 100 500 metres

SCALE: 1:10 000

Aztec Mining Company Ltd

EL 7021, 7127, 7391
BURRUNDIE DOME PROJECT
SAMPLE LOCATION PLAN

PROJ NAME: NO

PREPARED BY: T Butler DATE OF SURVEY: JNE 1992

DRAWN BY: CSDS DRAWING NO

Enclosure 2

Aztec Mining Company Ltd

EL 7021 AND 7127

YELLOW TRACK SOUTH ANOMALY

GEOLOGY FACT MAP

PROJ. NAME: [illegible] NO: 702-02

Enclosure 4

COMPILED: [illegible] SCALE: 1:500

DRAWN: [illegible] DATE: [illegible]

LEGEND

ab	abundant	m	moderate/ic
act	actinolite	m	medium
br	brown	mssv	massive
bw	bedwork/ed	mv	mauve
bnd	banded	o/c	out crop
brecc	breccia/ted	pk	pink
cbc	carbonaceous	qtz	quartz
chl	chlorite	rd	red
cht	chert	s	strong/ly
c	with	sil	siliceous
cmt	cemented	sh	shale
dol	dolerite	Ssm	mudstone
ferr	ferruginous	Slst	siltstone
Fe	iron	stn	stained
fol	foliated	sub cr	sub crop
fl	float	v	very
fss	fissile	vn	vein/ed
gy	grey	w	weak/ly
gr	green	wd	weathered
goss/g	gossan/ous	y	yellow
blc	bleached	YBF	Banded Iron Formation

sub crop rocks (fl) boundary

dolerite

qtz/qz scree/rubble

gossan/silicate/sulphide lode, quartz rubble and limonite after limestone

metadolerite

scree

road

gully

dip and strike of bedding

dip and strike of cleavage

outcrop

contours

0 50 100 150 200m

8 400N
8 200N
8 000N
7 800N
7 600N
7 400N
7 200N
7 000N
6 800N
6 600N
6 400N
6 200N
6 000N
5 800N
5 600N

9 000E
9 200E
9 400E
9 600E
9 800E
10 000E
10 200E
10 400E
10 600E

5 600N
5 400N
5 200N
5 000N
4 800N
4 600N
4 400N
4 200N
4 000N
3 800N

8 200E
8 400E
8 600E
8 800E
9 000E
9 200E
9 400E
9 600E
9 800E
10 000E
10 200E
10 400E
10 600E

qtz sub cr
+ sc
black soil
cbc Ssm
cbc Sstm
qtz after carb
gp
ferr Slst
gl
prom qtz o/c after fst
gossan
qtz sc
qtz vn
ESOO
water bore
fl dominantly cbc Ssm, ls, dol + a little qtz
Fe stn Ssm
Ssm
lode
pk lam Slst
pale pk silty lam Slst
10cm goss q
wd ct and dol
dol + pale pk soft Slst, Sdl
pk pn soft hem lam sandy beds
hem Slst, cht sl = cbc Slst fst gtz
dst pitted cbc Slst, cht
cbc Slst = lam
chl msc slt cbc Slst
hem Slst
cbr Slst
pale x-bdd cht, sd bdd lam
pk lam Slst
soft hem Slst pk
= hem Slst c ghost
pk Slst
= hem cbc Slst c ige ghost
hem Slst sc
sc c pk Slst
abund slt dol + fl gossan
pk hem Slst (soft)
lam cht c diss sul bw
poorly dev lode c pk x'bdd Slst/cht
abund pk lam Slst sc/sub cr
hem/lam Slst
hem Slst abund hem in beds
dol or dlt cmt Slst
dom cbc Slst
chc Slst
cbc Slst = hem s bkd surface abund q
FeOx in lode
= hem Slst
cbc Slst
= hem cbc Slst
hem
= sm ferr lode o/c

al	alluvium	fl	float
sc	scree	xtal	crystal/s
sub cr	sub crop	sul	sulphur
stn	stained	chalc	chalcocite
qtz	quartz	diss	disseminated
st	limestone		
Sstm	mudstone		
Slst	siltstone		
gp	gabbro		
cht	chert		
Fe	iron		
ferr	ferruginous		
cbc	carbonaceous		

- creek
- track
- alluvium boundary
- sub crop talus boundary
- outcrop
- dip and strike of bedding
- dip and strike of cleavage
- drill hole collar and grid pt

abundant quartz scree
siliceous outcrop after limestone, commonly gossanous
metadolerite

GRID NORTH
MAG NORTH
20°

0 50 100 150 200metres
1:2,500

Aztec Mining Company Ltd

EL 7391
EMERALD SPRINGS ANOMALY
GEOLOGY FACT MAP

PROJ NAME: BURMADE PROJECT NO 7391 01
Enclosure 5
COMPILED: I K Butler
DRAWN: M.C.B.
SCALE: 2,500
DATE: FEB 1993

10200 E
10400 E
10600 E
10800 E
11000 E
11200 E
4400 N
4200 N
4000 N
3800 N
3600 N
3400 N
3200 N
3000 N
2800 N

blc	bleached
bldrs	boulders
bnd	banded
bw	boxwork
c	with
cbc	carbonaceous
dk	dark
dom	dominant
fl	float
lam	laminated
msv	massive
o/c	out crop
s	strong
sc	scree
sil	siliceous

stn	stain/ed
sub cr	sub crop
tr	trace
w	weak
wd	weathered
br	brown
gy	grey
mv	mauve
rd	red

chl	chlorite
cht	chert
dc	duricrust
dol	dolerite
FeOx	iron oxide
hem	hematite
hfl	hornfelsed
is	iron stone
lat	laterite
lim	limonite/ic
mic	micaceous
py	pyrite/ic
q	quartz
Slst	siltstone

- outcrop
- sub crop talus boundary
- creek
- dip and strike of bedding
- dip and strike of cleavage
- quartz scree/rubble
- gossan/silicate/sulphide lode, quartz rubble and limonite after limestone
- metadolerite

Aztec Mining Company Ltd

EL 7391

BOB'S KNOB
GEOLOGY FACT MAP

PROJ. NAME BURR'N'B NO. 7391.03

Enclosure 6

COMPILED: I.K Butler	SCALE: 1: 2,500
DRAWN: M.C.B	DATE: JULY 1993