

M 7991

A 42213



UCABS PTY LTD

GEOLOGICAL REPORT

ON THE

QUARTZ CREEK PROSPECT

YALGOO GOLD FIELD

W.A.

FIFTH YEAR ANNUAL REPORT

SEPT

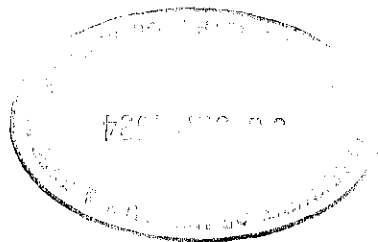
BOX 7005

**GEOLOGICAL REPORT ON THE
QUARTZ CREEK PROSPECT
YALGOO GOLDFIELD
WESTERN AUSTRALIA**

ES9/285

**FOR
UCABS PTY LTD**

FIFTH AND FINAL YEAR ANNUAL REPORT



SEPT 1994

by P.K. PURKAIT

C O N T E N T S

	<u>Pages</u>
1. INTRODUCTION	1
2. LOCATION AND ACCESS	2
3. TENEMENT	3
4. GEOLOGY	4
4.1 REGIONAL GEOLOGICAL SETTING	4
4.2 PROSPECT GEOLOGY	5
4.3 GRID GEOLOGICAL MAPPING	6
5. CURRENT EXPLORATION WORK	7
5.1 ROCK CHIP SAMPLING	7
5.2 SOIL SAMPLING	7
6. CONCLUSION	8

APPENDIX I GEOCHEMICAL ANALYSIS

FIGURES

		<u>Scale</u>
FIG. 1	LOCATION MAP	1 : 6,000,000
FIG. 2	TENEMENT MAP	1 : 100,000
FIG. 3	GEOLOGY MAP	1 : 10,000
FIG. 4	DETAILED GEOLOGY MAP	1 : 2,000
FIG. 5	LOCATION OF GEOCHEMICAL SOIL SAMPLES	1 : 2,000
FIG. 6	RESULTS OF SOIL SAMPLES	1 : 2,000
FIG. 7	LOCATION OF ROCK CHIP SAMPLES	1 : 2,000
FIG. 8	RESULTS OF ROCK CHIP	1 : 2,000
FIG. 9	LOCATION OF SOIL SAMPLES	1 : 10,000
FIG. 10	RESULTS OF SOIL SAMPLES	1 : 10,000

1. INTRODUCTION

This report was prepared after the evaluation of previous years exploration results together with the current years exploration work. The Quartz Creek prospect exploration licence was granted for 5 years commencing on 30 May 1989, as a result this is the final years exploration report.

The work carried out consisted of detailed grid geological mapping over interesting area, rock chip sampling and soil sampling to determine the potential of any gold mineralisation.

The results of the current exploration work are discussed in this report and a recommendation for future work programme for all acquired mining leases are also given.

2. LOCATION AND ACCESS

The Quartz Creek prospect is 400km NNE by road from Perth and approximately 75km south of Yalgoo (Fig. 1). This area is located within the Yalgoo 1 : 250,000 geological sheet. Local access is provided by numerous N - S grid lines as well as exploration tracks, a gravel airstrip is available on the Thundalarra Station.

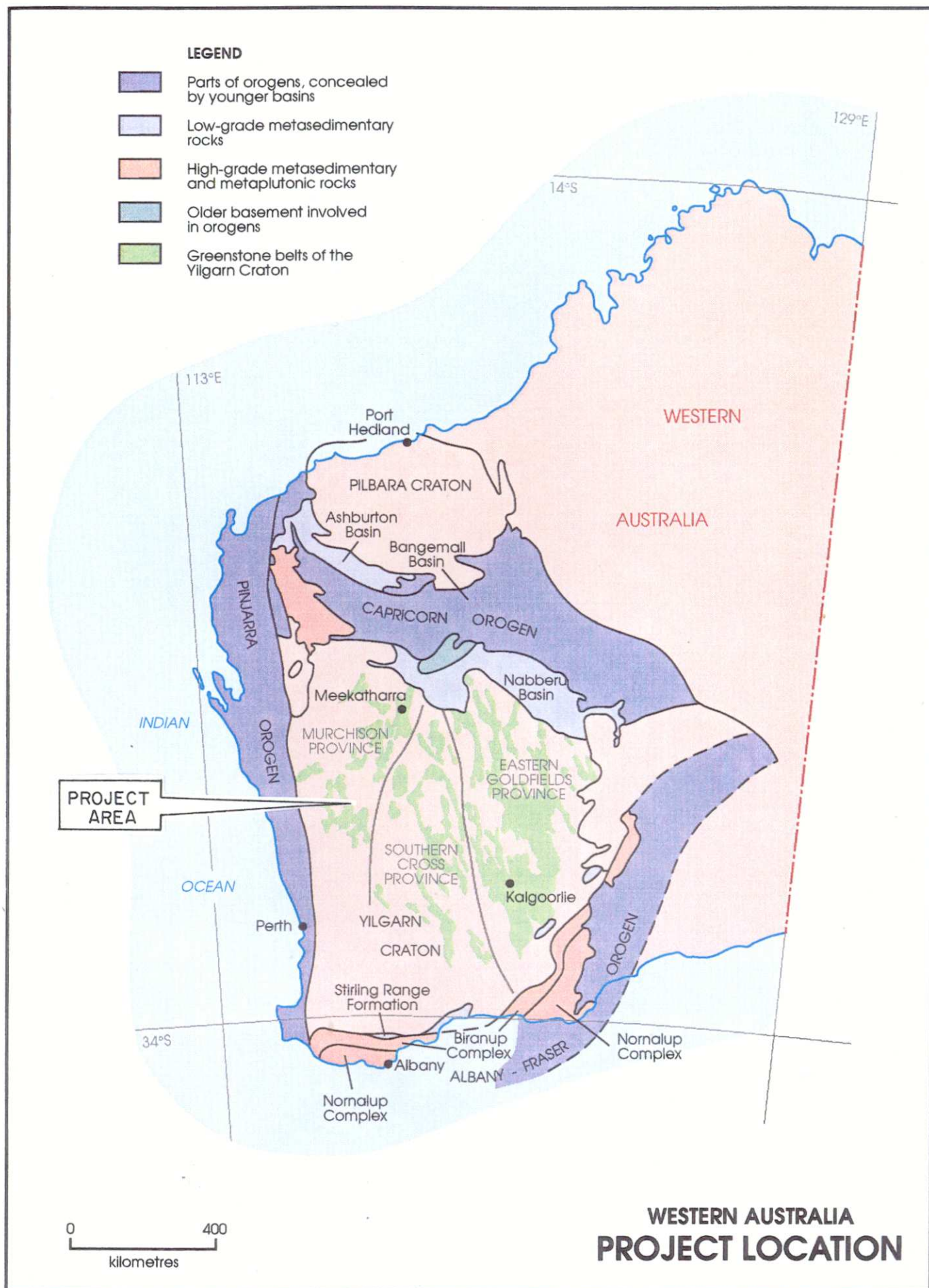
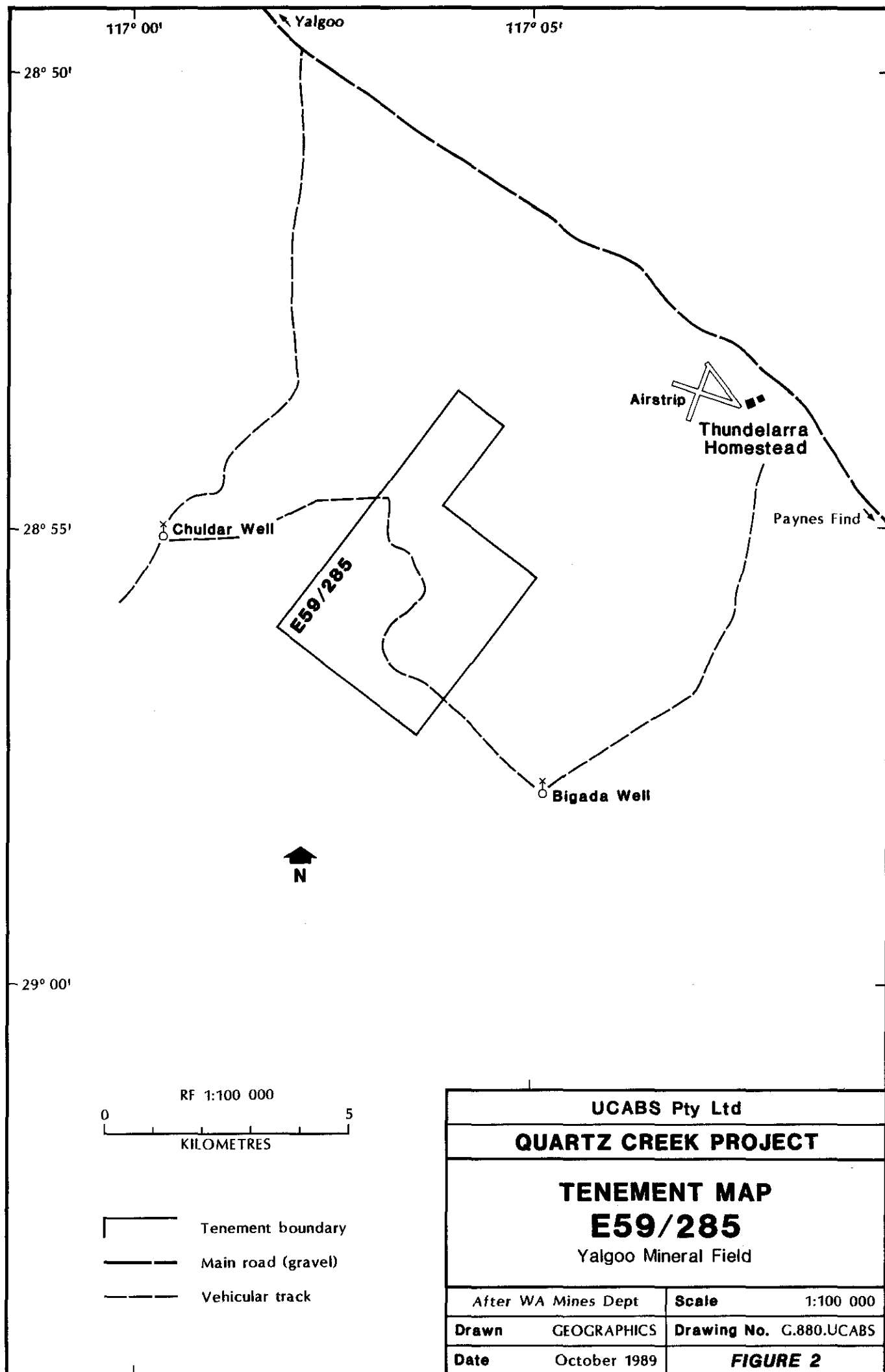


Figure 1

3. TENEMENT

The property under investigation comprises an Exploration Licence No. E 59/285 and is wholly owned by Ucabs Pty Ltd (Fig. 2).

The original licence covers a total area of 16 km² and this licence was granted for a term of 5 years commencing on 30 May 1989. As a result, during this final year Ucabs Pty Ltd has acquired two mining leases No. 59/346 (49 ha) and No. 59/347 (70 ha). These mining leases are now granted for future work.



4. GEOLOGY

4.1 REGIONAL GEOLOGY

The Exploration Licence lies in the west central portion of the Yilgarn craton of Archaean age (Fig. 1).

The regional geology of the region is composed of a discontinuous greenstone belt separated by older granite terrains and synorogenic granite stock and batholiths. The greenstone belt, which is mainly mafic-ultramafic to felsic metavolcanics and sediments, is known to be prospective for volcanogenic copper-lead-silver and gold mineralisation. The regional trend of the greenstone belt is northwest-southeast, consistent with the regional structural trend of most other greenstone belts in the Yilgarn Shield.

The regional geological setting and main stratigraphic units are summarised in Fig. 3, an interpretation based on mapping by Baxter, 1984.

The current investigation concentrated on the lower most units of dolerite/gabbro and metabasalts of the Thundelarra Group which are interpreted as unconformably overlying a banded iron formation unit near the top of the Gossan Hill Group.

The Stratigraphic sequence of the Warriedar fold belt is given below.

TABLE 1
STRATIGRAPHIC SEQUENCE

WARRIEDAR GROUP	Based quartz-arenite and conglomerate upwards to black shales, fine litharenites and minor BIF.
- UNCONFORMITY -	
WINDANING GROUP	Basal fine siliceous sediments, BIF and felsic volcanoclastics passing into tholeiitic basalts, dolerite, gabbro and minor BIF.
- UNCONFORMITY -	

THUNDELARRA GROUP

Tholeiitic basalts, dolerite and gabbro with minor BIF.

- UNCONFORMITY -**GOSSAN HILL GROUP**

Fine to coarse felsic volcanoclastic sediments, felsic lava and minor chemical sediments.

4.2 PROSPECT GEOLOGY

Inside the Exploration Licence ultramafic, metabasalt, laterite, banded iron formation were noted. Acid porphyry dykes, large quartz veins are also present. The general strike of the rock units is NW-SE in direction dipping 60°-62° north easterly. This area of volcanic rock lies on the western limb of a major south plunging anticline with the eastern limb stoped by the intrusion of the eastern granite. Bedding is well developed in the banded iron formation.

Gold is the most important metal which occurs within the Exploration Licence. In addition to gold, the area has the potential for finding volcanogenic copper-lead-zinc sulphide deposit.

Gold production from mines within 100km of the Exploration Licence is given in Table 2.

TABLE 2
GOLD PRODUCTION FROM MINES
IN THE VICINITY OF EXPLORATION LICENCE

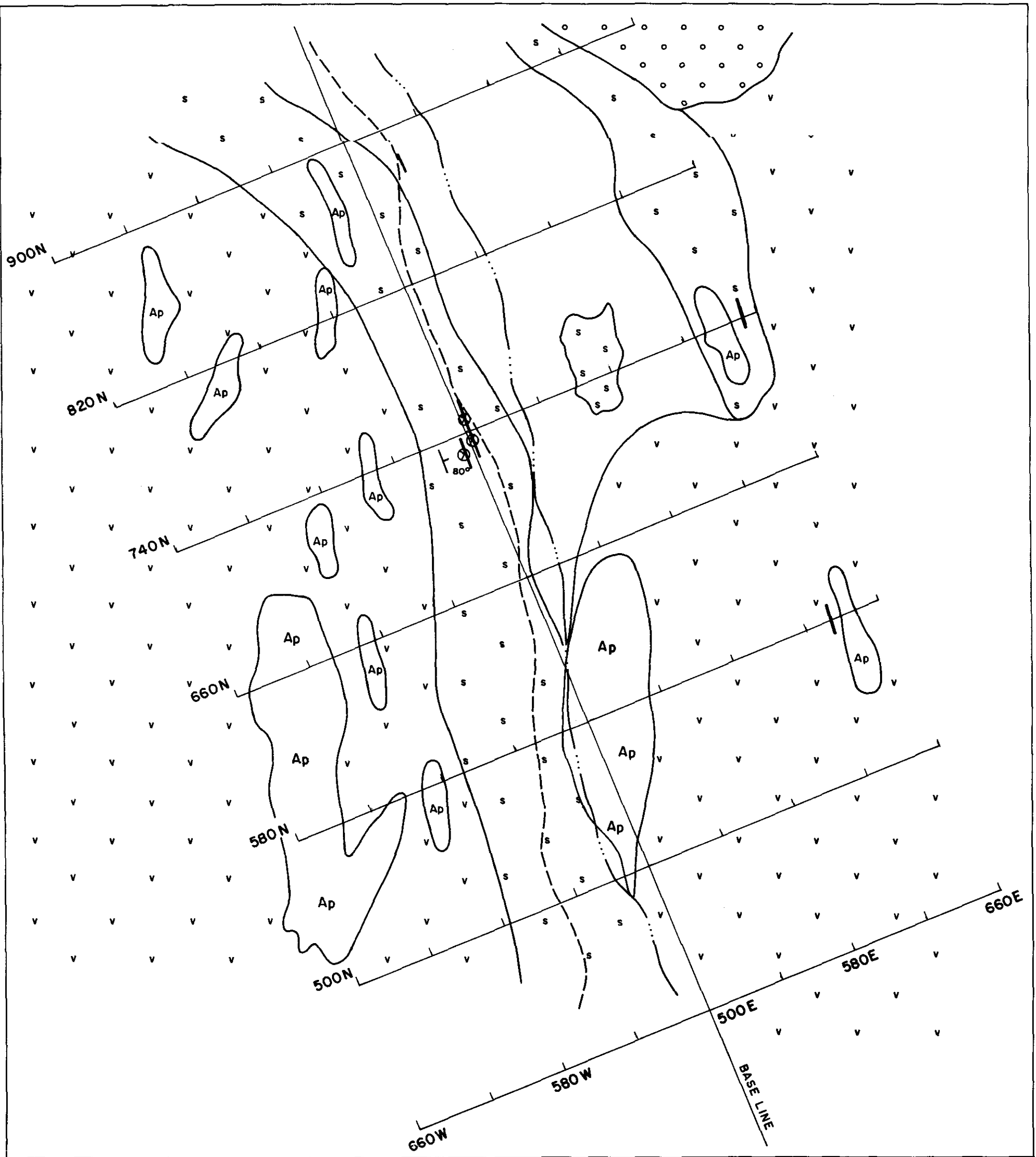
<u>Locality</u>	<u>Ore Treated</u>	<u>Gold Produced</u>	<u>Average Grade</u>
Fields Find and surrounding leases	41,281.95 tonnes	886.950 kg	21.49 gm/tonne
Rothsay	41,203.35 tonnes	333.14 kg	8.09 gm/tonne
Porcupine (or Warriedar group) mainly iron clad	10,968.44 tonnes	111.794 kg	
Crescent	213.52 tonnes	1.402 kg	6.57 gm/tonne
Messenger Patch	306.54 tonnes	6.820 kg also alluvial 9.296 kg	

4.3 GRID GEOLOGICAL MAPPING

A grid 80m/80m was laid out over the Quartz Creek prospect area to determine the interrelation of rock types and their importance of gold mineralisation within this area.

A total of 2.5km gridding was carried out for this programme. Inside the gridded area metabasalt, acid porphyry dykes, laterite, quartz vein and metasediments were noted (Fig. 4). The general strike of the rock units is N-S in direction dipping 65°-75° easterly. Foliation is well developed in metasediments.

Gold mineralisation occurs at the contact areas with metabasalt and sediments. These are mainly associated with quartz veins as can be seen in the small diggings. Quartz veins are pyritic, sometimes malachite bearing and highly fractured. The contact areas are not well explored, as a result potential of high grade gold mineralisation exists in this prospect. This has been proved by the high grade mineralisation up to 6.40 g/t detected in the south quartz outcrop.

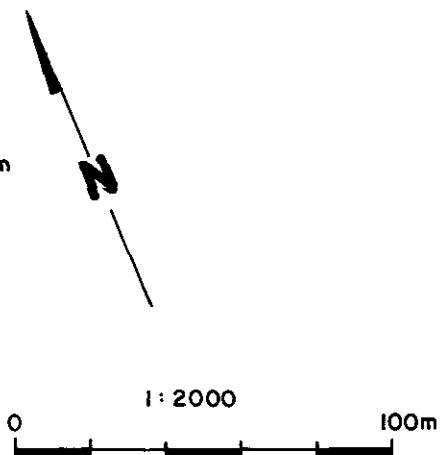


LEGEND

- Alluvium
- Laterite
- Ap Acid Porphyry
- s s Metasediment, yellow, altered
- v v Metabasalt, dark-green, fractured
- q

 q Quartz Vein with Gold mineralisation
- Track
- Creek
- 80°

 Foliation



UCABS PTY LTD

QUARTZ CREEK E 59/285

GEOLOGY MAP

**Murchison Province
Western Australia**

Surveyed PKP	Scale	1:2 000	Drawing No.
Drawn by	Date	September 1994	FIGURE 4

5. CURRENT EXPLORATION WORK

Work around Quartz Creek diggings were neglected during previous years exploration. Thus, this year has encouraged to initiate current exploration work around the known mineralised areas. A limited rock chip and soil sampling programme was carried out to locate any potential gold mineralisation around the old workings.

5.1 ROCK CHIP GEOCHEMISTRY

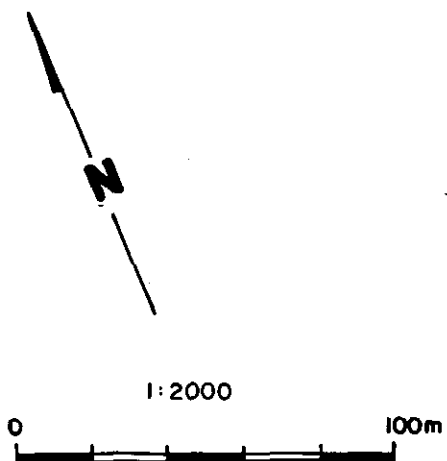
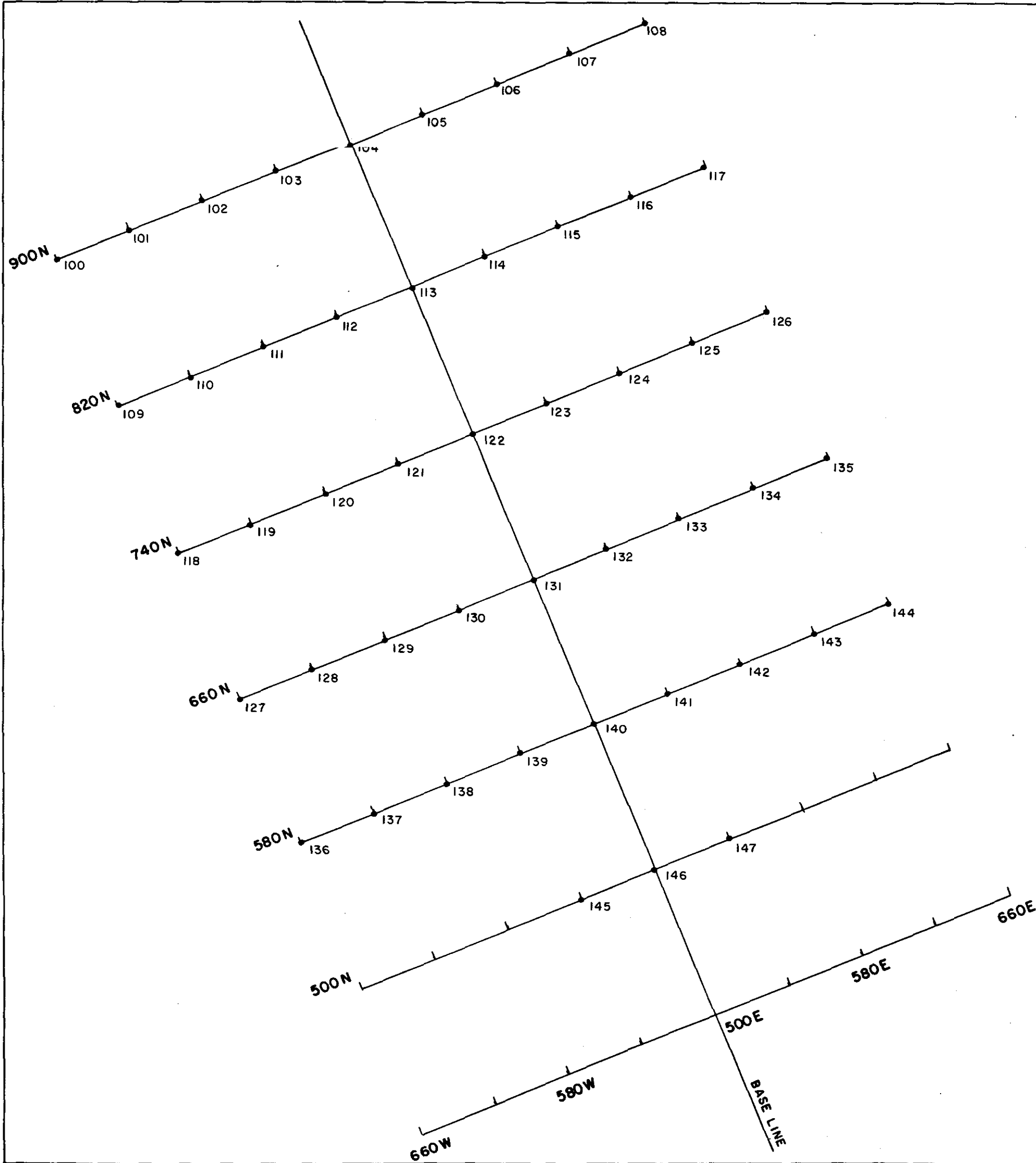
A total of 22 rock chip samples (No's. 500 to 521) were collected for initial evaluation of the Quartz Creek areas (Fig. 7). All samples weighing 2kg were assayed by B/ETA method for gold. These samples were sent to Genalysis Laboratory Services Pty Ltd, Perth W.A. and were analysed for gold. The analysis results sheet is provided in Appendix I. A highest gold value of 30 ppb was recorded from Sample No. 500. No significant gold values were identified from any sample (Fig. 8).

5.2 SOIL SAMPLING PROGRAMME

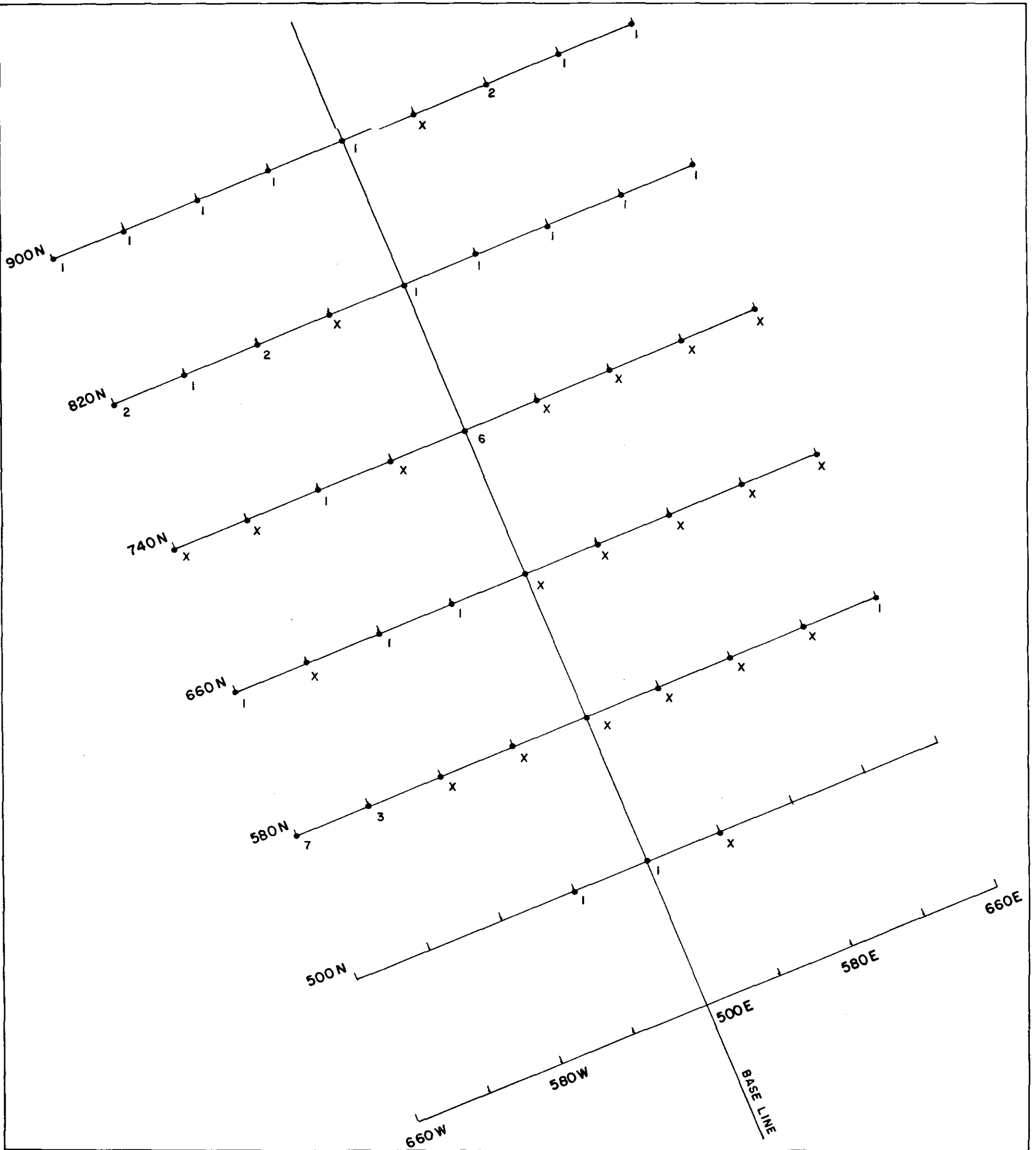
A total of 57 soil samples (No's. 100 to 156) were collected over the grid pattern at 80/40m. All samples were analysed for gold and the analysis results sheet is provided in Appendix I. This work was undertaken to study gold dispersion within the area.

The samples were sieved to -2mm fractions from each spot. Anomalous values for gold were not detected from any samples. The location and results of the soil samples were plotted in Figs. 5, 6 and 9, 10.

The soil sampling programme, although regarded as a useful exploration tool, is not very effective in this case.



UCABS PTY LTD		
QUARTZ CREEK E 59/285		
SOIL SAMPLE LOCATION MAP		
Murchison Province Western Australia		
Surveyed PKP	Scale 1:2 000	Drawing No.
Drawn by	Date September 1994	FIGURE 5



LEGEND
• 6 Au (ppb)



0 1:2000 100m

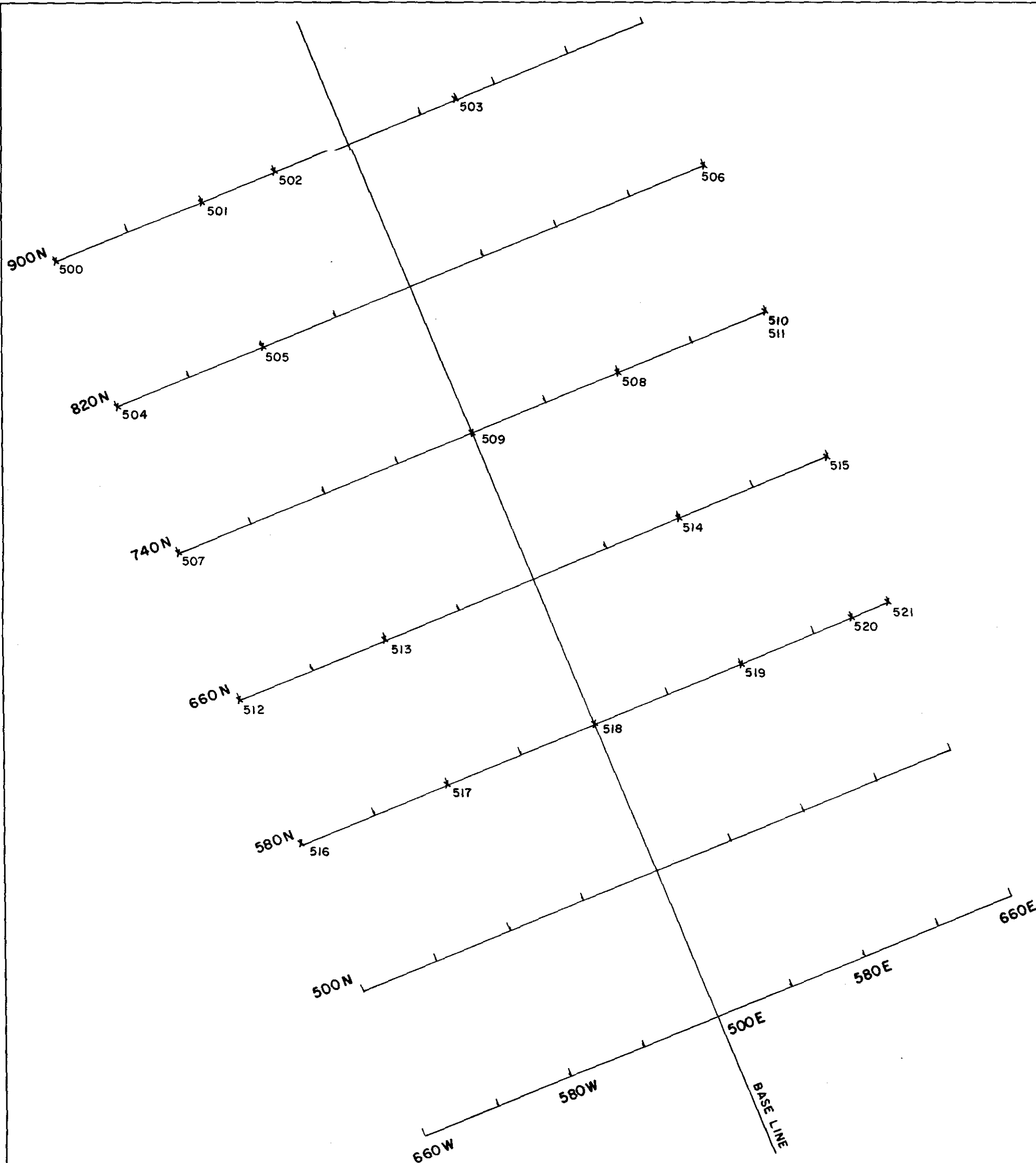
UCABS PTY LTD

QUARTZ CREEK E 59/285

SOIL SAMPLES ANALYSIS REPORT

**Murchison Province
Western Australia**

Surveyed PKP	Scale 1:2 000	Drawing No.
Drawn by	Date September 1994	FIGURE 6



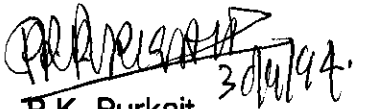
0 1:2000 100m

UCABS PTY LTD		
QUARTZ CREEK E 59/285		
ROCK CHIP LOCATION MAP		
Murchison Province Western Australia		
Surveyed PKP	Scale 1:2 000	Drawing No.
Drawn by	Date September 1994	FIGURE 7

6. CONCLUSION AND RECOMMENDATION

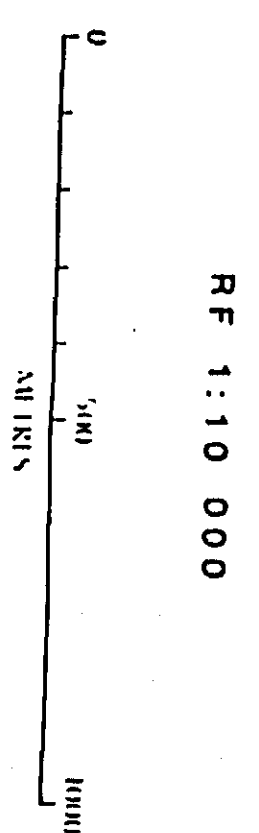
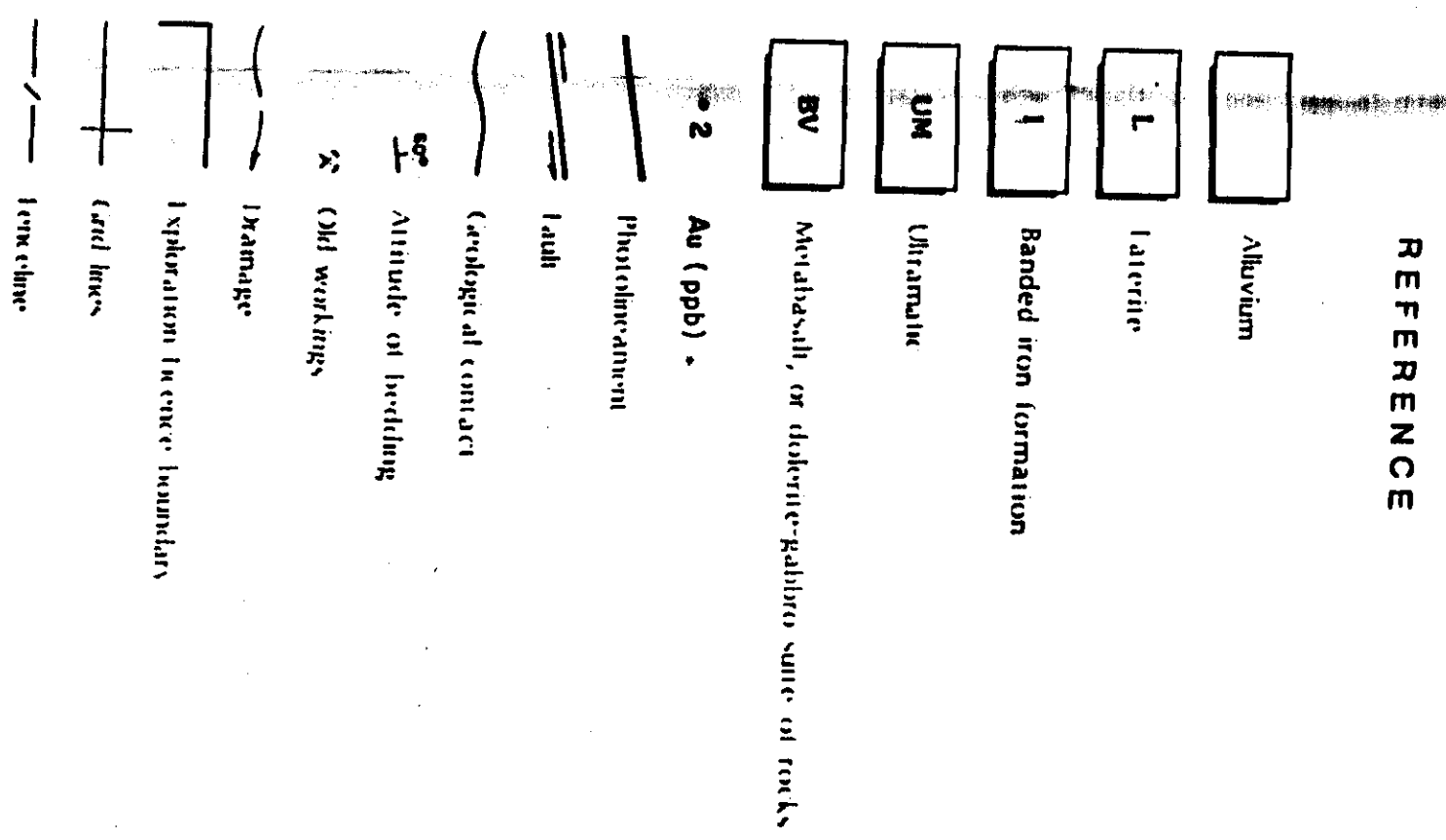
Although the current exploration programme did not show extension of mineralised zone further east or west side of the old diggings, encouraging gold results were obtained from the quartz veins on both north and southern diggings by previous workers.

The highest value of 5 g/t gold was recorded from the northern diggings whereas 6.4 g/t gold was obtained from southern quartz veins. In view of these values, it is suggested that a grid be laid out to spaces of 40m/20m intervals to the test the areas by limited drilling. This work should assist in further extension of mineralisation and thereby indicating the potential resources of gold in this area.

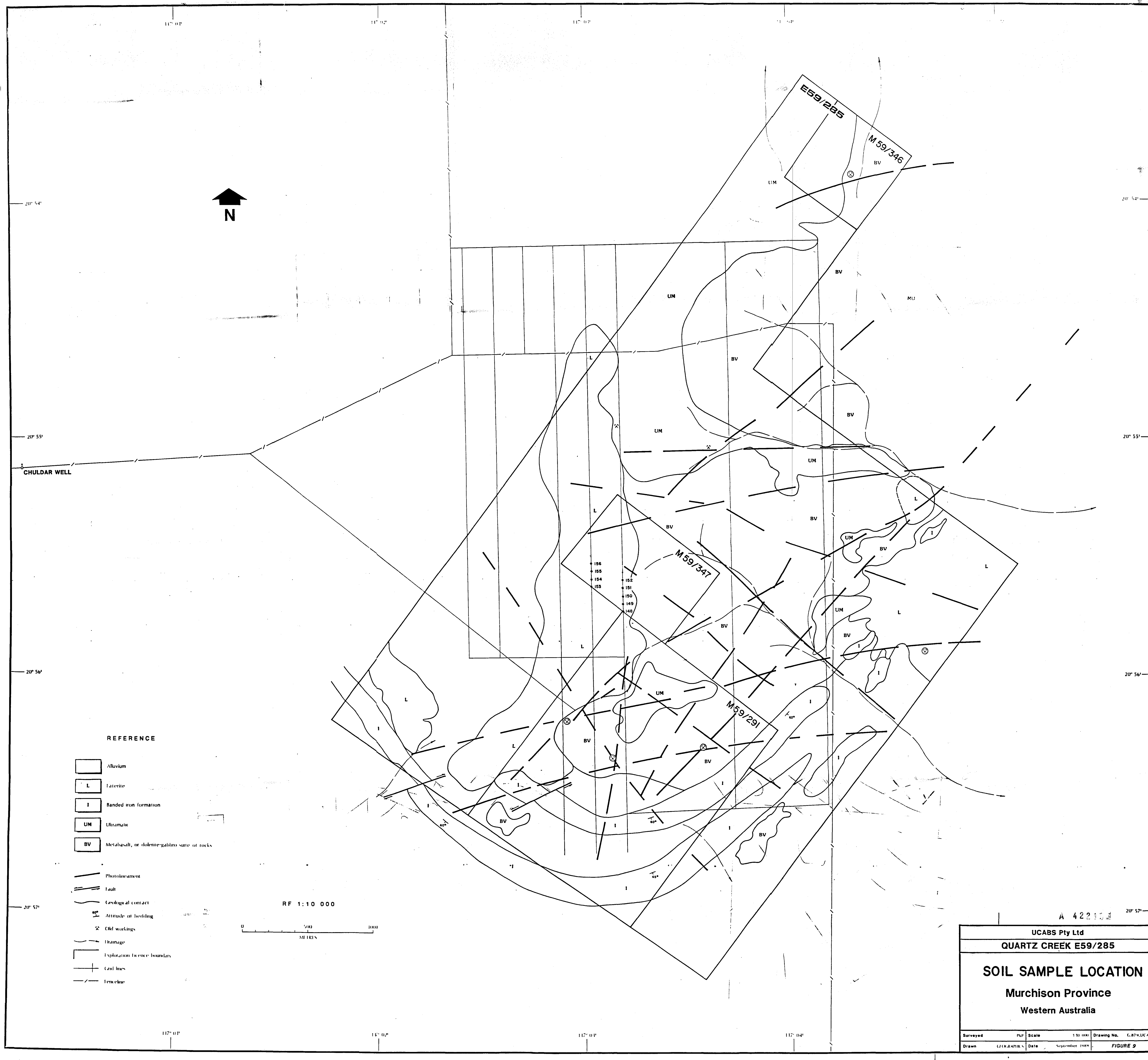

P.K. Purkait 30/7/94.

APPENDIX I

GEOCHEMICAL ANALYSIS



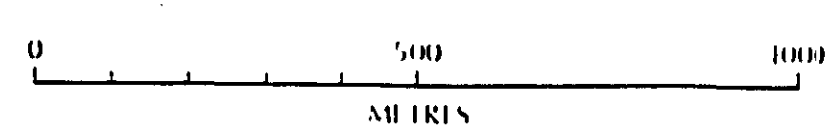
UCABS Pty Ltd			
QUARTZ CREEK E59/285			
<h1>SOL SAMPLE RESULTS</h1> <h2>Murchison Province</h2> <h3>Western Australia</h3>			
Screened	Inf	Scale	To Unit
Drawn	(L) (K) (M) (N)	Date	September 1981
Drawing No.		C.M.741C (N)	
FUDGE 20			



REFERENCE

- Alluvium
- L Laterite
- I Banded iron formation
- UM Ultramafic
- BV Metabasalt, or dolerite-gabbro suite of rocks
- Photocollimation
- Fault
- Geological contact
- Attitude of bedding
- Old workings
- Drainage
- Exploration licence boundary
- Grid lines
- Fenceline

RF 1:10 000



UCABS Pty Ltd			
QUARTZ CREEK E59/285			
SOIL SAMPLE LOCATION			
Murchison Province			
Western Australia			
Surveyed	PLP	Scale	1:10 000
Drawn	G.J. KAPRIS	Date	September 1989
		Drawing No. C.874/UCABS	
		FIGURE 9	