THE ROEBUCK RESOURCES N.L./ NORTH FLINDERS MINES LTD. JOINT VENTURE

THE IVANHOE GROUP COMPRISING EXPLORATION LICENCES E.L. 6205, E.L. 7432, E.L. 7443 AND PART OF E.L. 7445

ANNUAL EXPLORATION REPORT FOR 1991

Prepared for

Roebuck Resources N.L.

by

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SUMMARY AND CONCLUSIONS

During 1991 exploration of the tenements of the Ivanhoe Group was concentrated on the geochemical evaluation of several selected target areas. The largest of these was the West Ivanhoe Grid area which straddles the boundary between E.L. 6205 (Ivanhoe) and E.L. 7445 (Ivanhoe West).

Numerous potentially significant geochemical anomalies were identified, the most important of which is the Pelican Zone which is outlined by the 25 ppm copper in bedrock contour and is about 1,500 metres in east-west length and up to 300 metres wide. This anomalous zone will be investigated in detail during 1992.

1. INTRODUCTION

The Ivanhoe Group of tenements comprises the whole of Exploration Licences E.L. 6205 (**IVANHOE** - 7 graticular blocks), E.L. 7432 (**IVANHOE SOUTH** - 4 graticular blocks), and E.L. 7443 (**IVANHOE EAST** - 9 graticular blocks), together with the two northeastern graticular blocks of E.L. 7445 (**IVANHOE WEST**); i.e. those located east of longitude 1340 00'. (See Figure 2).

The tenement group has a total area of 71 square kilometres and covers an approximately 15 kilometres length of the major regional west-northwest trending "Mary Lane Shear Zone, together with other associated structures.

Although the "Mary Lane Shear Zone" is generally shown on regional geological maps as a single line structure, it is a shear zone in the true sense. It comprises numerous single shear elements, some 5 kilometres or more in length, within a zone more than one kilometre wide. Less frequent parallel shear elements occur marginal to this main zone.

The Ivanhoe Group is so named because it is centred on the now mined out Ivanhoe copper-gold deposit. This deposit, located within the "Mary Lane Shear Zone", was discovered by the drilling of an aeromagnetic anomaly, Explorer 9, in 1959.

Similar magnetic anomalies occur nearby to the west-northwest - Explorer 13, and to the east-southeast - Explorer 17, in ground now held by Poseidon Gold Ltd. Both of these have been drilled in the past and, although gold and copper mineralisation has been identified, no resource has been defined.

Exploration Licence E.L. 6205 was originally held by Newmont Australia Ltd. It initially comprised 14 graticular blocks granted in 1988, and was reduced to 7 graticular blocks in 1990. On 17th June, 1991 Roebuck Resources N.L. entered into an agreement to purchase this E.L. from Newmont. This tenement was due for further reduction to 4 blocks on 3rd October, 1991. After reviewing the Newmont data, the discovery potential of the prospect was reassessed. As a result a request was made of the Northern Territory Department of Mines and Energy that area reduction be deferred. This request was granted and the area now remains intact until 3rd September, 1992.

Exploration Licences 7432, 7443 and 7445 are not due for any areal reductions until July and August, 1993.

2. GEOLOGICAL SETTING OF TENNANT CREEK ORE DEPOSITS

The gold-bismuth-copper deposits of the Tennant Creek Goldfield are mainly hosted by the meta-sedimentary rocks of the Lower Proterozoic Warramunga Formation. These rocks comprise poorly to well bedded greywackes, siltstones and mudstones within which occur occasional well laminated siltstones and finely laminated shales.

In general the depositional environment appears to have been turbiditic.

The rocks of the Lower Proterozoic Bernborough Formation are exposed in the northeastern part of the goldfield. According to Le Messurier et al, 1990 this formation is located below the Warramunga Formation. During 1990 and 1991 geologists of the Northern Territory Geological Survey have been engaged in remapping the Tennant Creek 1:250,000 map sheet area and have suggested that the Bernborough Formation overlies the Warramunga Formation.

The Bernborough Formation comprises two parts.

The lower part is dominated by porphyritic fine grained igneous rocks. In some places field relationships show these to be intrusive quartz-felspar porphyries but in most cases the field relationships are not clear. Many of these rocks are texturally reminiscent of ignimbritic volcanics, and their origins are the subject of much dispute. They are either intrusive quartz-felspar porphyries which have been brecciated and sheared, or extrusives.

The upper part of the Bernborough Formation comprises greywackes, siltstones and mudstones similar to those of the Warramunga Formation. These rocks often exhibit well developed cross bedding. It is believed that they were deposited in a similar environment to the Warramunga Formation although in shallower, more shoreline proximal areas. Some sandstones and conglomerates (originally grouped as the Whippet Formation) are also present.

The Lower Proterozoic sequence has been deformed by several phases of folding with associated cleavage development, faulting and shearing. Numerous intrusive quartz-felspar porphyry dykes (and some sills) occur and appear to have been emplaced contemporaneously with dilational movements during the abovementioned tectonic activity (Figure 3).

Mineralisation generally occurs within shear zones and is associated with hydrothermal alteration. The hydrothermal mineral assemblage mainly comprises chlorite, magnetite, haematite, talc and calcium-magnesium carbonate (dolomite). Most known unoxidised ore deposits comprise copper and iron sulphides, native gold and bismuth sulphosalts infilling fractures in tectonically brecciated massive magnetite-haematite bodies. Their characteristics are discussed in greater detail below.

3. THE CONVENTIONAL TENNANT CREEK TARGET MODEL

The discovery of the sub-oxidation level copper-gold deposit hosted by the magnetite rich massive ironstone body with its associated magnetic anomaly at the Peko Mine in 1950 led to the deep drilling of numerous similar magnetic features in the goldfield.

This approach resulted in the early discovery by Geopeko Ltd of the Orlando (1957), Ivanhoe (1959) and Juno (1965) deposits, all of which became mines.

These successes, together with the failure of early prospectors to discover gold in the quartz reefs of the field and the subsequent discovery that many of the prominently outcropping oxidised haematitic ironstones contained high gold grades, led to the development of the classic Tennant Creek orebody target model.

This target model has since determined the course of all exploration carried out in the Tennant Creek goldfield. It can be summarised as follows:

a) All significant gold, copper and bismuth mineralisation at Tennant Creek is closely associated with ironstone bodies.

b) Below the base of oxidation the ironstones contain abundant magnetite and consequently generate detectable and often very high amplitude magnetic anomalies.

c) Within the zone of oxidation the magnetite contained in the ironstones is largely converted to haematite and associated magnetic anomalies are more subdued or absent.

d) The ironstones are usually located near the crests or troughs of folds and tend to be variably flattened in the plane of the steeply dipping, east-west striking regional cleavage.

4. THE ROEBUCK RESOURCES N.L. EXPLORATION VIEW AND STRATEGY

The argument in favour of strict adherence to the traditional target model as defined above is dependent on the assumption that all significant gold, copper and bismuth mineralisation at Tennant Creek is closely associated with ironstone bodies. While this appears reasonable, it is more correct to say that all <u>known</u> significant gold etc is associated with ironstone bodies. That is, as yet undiscovered mineralisation may not be associated with ironstone.

Knowledge of the distribution of mineralisation at Tennant Creek has been dependent upon the constraints imposed by the exploration techniques and strategies used in the past.

Except for the recent discovery by Western Mining Corporation, known gold deposits in oxidised rocks are spatially related to outcropping ironstones, or non-outcropping ironstones discovered during exploration of outcropping ironstones. These deposit locations all owe their discovery to the use of the "loaming" technique used by the prospectors of the 1930s. Because of their characteristic resistance to erosion, the ironstones form prominent outcrops.

Associated gold mineralisation was amenable to discovery by "loaming" because of topographic suitability.

In non-outcropping erosionally susceptible rocks gold mineralisation would not have been found by the "loaming" method. Such areas would also probably be covered by transported soils. It should also be noted that after the first outcropping ironstone related discoveries prospectors would have concentrated wholly on these easily identified and located targets.

The available data suggest that more than 99 percent of all diamond drill holes completed to explore for gold-bismuth-copper deposits at Tennant Creek were collared to test magnetic features which did or might contain mineralisation.

Simplistically it can be stated that until recently the objective of all scout exploration drilling at Tennant Creek has been the discovery of ironstones.

It has been convincingly suggested that the massive magnetite-haematite bodies of the Tennant Creek area have been hydrothermally introduced: they are all located in favourable dilational structures, usually associated with shear zone/fault intersections.

It is the view of the Roebuck Resources N.L. exploration team that the introduction of various elements into structurally favourable loci by hydrothermal processes occurred over an extended period of changing chemical and physical conditions.

Early hydrothermal activity resulted in the formation of chlorite and disseminated to massive magnetite. Later activity resulted in formation of talc and dolomite together with, or closely followed by chalcopyrite and pyrite, and finally, with increasing potassium, muscovite (sericite) together with gold, bismuth and uranium.

It is our view that since the formation and deposition of ironstones and gold are almost end member phenomena in the same hydrothermal event series, the main reason for any ironstone/gold spatial association is mechanical; i.e. dilational fracturing and brecciation of the ironstone after its formation prepared a suitable host for later deposition of economic mineralisation.

It appears logical that many other suitable dilational host structures could exist which were not suitable hosts during hydrothermal introduction of iron and are devoid therefore of massive ironstone.

Exploration for economic deposits which have no spatial relationships with ironstones may be especially difficult below the base of oxidation. Such deposits may have no readily identifiable geophysical characteristics.

Non-ironstone related deposits occurring in the oxide zone may be much more readily identifiable. The Roebuck exploration strategy is primarily aimed at

identification of such near surface targets although the methods used are also appropriate to oxidised ironstone hosted mineralisation.

The techniques being used involve structural analyses using aeromagnetic and photogeological interpretation supplemented by regional mapping. The resulting structural interpretations assist in identification and selection of areas of structural dilation.

Features considered to be potential sites of dilation and favourable for the occurrence of Tennant Creek style mineralisation are being, and will be followed up by appropriate geochemical sampling methods. Anomalies will be tested by infill RAB bedrock and/or scout drilling methods prior to high cost RC drilling.

5. THE IVANHOE DEPOSIT

The Ivanhoe deposit was first identified in 1958 as a discrete magnetic anomaly, Explorer 9, though to be related to a sub-oxidation level magnetite rich ironstone body. Subsequent drilling during the 1960s outlined a resource of 370,000 tonnes averaging 3.47% copper and 0.6 grams of gold per tonne, in a narrow vertically dipping shear zone. The disseminated sulphide mineralisation together with native gold and bismuth and bismuth sulphosalts occurs in an area of intense hydrothermal alteration. The main alteration minerals are chlorite, tremolite,magnetite, quartz and sericite.

The base of oxidation is located at about 90 metres vertical depth. At about this level there occurred a zone of secondary copper enrichment. Chalcocite and pyrite occur at and immediately below the water table above which is a zone rich in cuprite and native copper.

During recent times drilling of the oxidised zone has indicated that gossanous shear zone material anomalous in gold extends to within 6 metres of the surface in at least one place. This depth represents the base of the regolith. The shallowest "ore grade" gold values encountered are believed to have been at around 40 metres vertical depth. The oxide zone resource has not been drilled out in detail.

Recorded gold production was 25,804 ounces (802.5 kilograms), suggesting an average recovered gold grade of about 2.2 grams per tonne.

6. WORK COMPLETED BY THE ROEBUCK RESOURCES N.L./ NORTH FLINDERS MINES LTD. JOINT VENTURE DURING 1991

6.1 The West Ivanhoe Grid

6.1.1 Grid location

Most of the work completed on the Ivanhoe Group of Exploration Licences during 1991 was concentrated on this grid which extends westwards from the western boundary of the Poseidon Gold Ltd. tenements covering the Ivanhoe Mine and Explorer 13. The grid has an approximately west-northwest trending base line 5.2 kilometres long and straddles the boundary between Exploration Licences E.L. 6205 and E.L. 7445 (see Figure 3). This work is summarised below.

6.1.2 Exploration statistics

ACTIVITY

	ON E.L. 6205	ON E.L. 7445	ON E.L. 7443
Gridding - baseline kilometres Gridding - crossline kilometres	3.36 48.20	1.84 15.80	1.55 11.60
Soil sampling	-	-	145
Bedrock vacuum drilling - holes Bedrock vacuum drilling - metres	893 4,098.6	13 135.8	- -
Bedrock RAB drilling - holes Bedrock RAB drilling - metres	180 2,302	368 2,598	79 226
Preliminary follow-up RAB Inclined - holes Inclined - metres	 29 864	 6 120	 1 40
Vertical - holes Vertical - metres	22 363	8 170	- -
TOTAL METRES DRILLED	7,627.6	3,023.8	266
TOTAL NUMBER OF SAMPLES analysed for gold in ppb and bismuth, copper, and lead in ppm	1,528	455	99
In addition, 77 samples were also analysed for arsenic			

6.1.3 Geological mapping

The area which includes and surrounds the old Ivanhoe Mine has been geologically mapped at a scale of 1 : 10,000 and a geological structural interpretation has been completed using the mapping data, together with low level aeromagnetic data and 1 : 25,000 scale contour aerial photography. The

West Ivanhoe Grid has been plotted on this plan which has been presented as Figure 3 of this report.

During bedrock geochemical drilling of the West Ivanhoe Grid area bottom of hole rock types were logged wherever identifiable. This data was used together with mapping of the sparse available outcrop to prepare the interpretive geological plan presented as Figure 4 of this report.

6.1.4 Bedrock geochemistry

A bedrock geochemical survey involving the drilling of 1,454 bedrock geochemical vacuum and RAB holes totalling 9,134.4 metres was completed on this grid during the period August to October 1991.

Samples were collected at 80 metres x 40 metres grid centres over a total grid area of about 4.5 square kilometres of this grid. The ungridded area within the western part of the grid pattern is covered by Mineral Claims held by Poseidon Gold.

All bottom of hole samples were analysed for gold in ppb, and bismuth, copper and lead in ppm by Genalysis Laboratory Services Pty. Ltd. in Perth, W.A. Details of the sample preparation and analytical techniques used are presented in Appendix I of this report.

Bedrock vacuum and RAB drill hole logs with analytical results plotted are located in Appendices II and III of this report respectively.

Bedrock geochemical drill hole locations with contoured geochemical values for gold in ppm, and bismuth, copper, and lead in ppm are plotted at 1 : 10,000 scale on Figures 5, 6, 7 and 8 respectively.

Figure 9 of this report is a composite 1:10,000 scale anomaly plan. It should be noted that all anomalies will need to be followed up at some time. Since there are about 65 anomalies in all, priorities will need to be assigned. Eighteen of the anomalies have approximately coincident anomalous geochemical values in two or more elements. These will be tested as first priority targets.

One of the anomalies centred at grid 9,500E, 9,300N is of exceptional size. Encompassed by the 25 ppm copper contour, it has an east-west length of about 1,500 metres and a maximum north-south width fo more than 300 metres. Because of its shape it is called the **Pelican Anomaly**.

6.1.5 Preliminary follow-up investigations by deeper RAB drilling

Preliminary follow-up RAB drilling was undertaken on 8 selected bedrock anomalies. The objective of this exercise was to confirm that the apparent anomalies were real, and not the result of anomalous transported regolith material which had contaminated the upper metre or two via near surface

bedrock fractures. Geological logs with analytical values are included as Appendix IV.

Five of the tested anomalies were shown to be due to genuinely high element values in the bedrock: two of these were of particular interest.

The most interesting geochemical feature on the West Ivanhoe Grid is the large **Pelican Anomaly** referred to above. The geochemical results for this area have been replotted and contoured at a scale of 1: 2,500 and are presented as Figures 10 and 11 of this report. The locations of follow-up RAB holes are plotted on Figure 12.

Cross- sections of the Pelican Anomaly RAB holes appear as Figures 13, 14, 15, 16, 17, 18, 19 and 20. Significant values were recorded at several locations.

The other anomaly of special interest is a single station copper-bismuth bedrock anomaly centred at 10,560E, 9,920N. The results of analyses from the preliminary deeper RAB holes on this target are plotted on the cross-section - Figure 21.

Other follow-up RAB drill holes are plotted on cross-sections as Figures 22 to 26 inclusive.

6.2 The Nelson Grid

6.2.1 Location and background

The Nelson Grid covers the east-southeastern extension of the shear zone which hosts the "Explorer 80" magnetic anomaly. This anomaly area is held by Poseidon Gold Ltd. Previous drilling intersected sub-economic gold and copper mineralisation. The sealed Tennant Creek-Warrego road passes through the northeastern part of the grid.

During Newmont's exploration programme a possible magnetic target P22 was identified in this area. A grid with 100 metres line spacing was constructed and the area was geologically mapped and a ground magnetic survey was conducted. No significant magnetic anomaly was indicated and no further work was done.

6.2.2 Results of 1991 exploration

In October 1991 a RAB hole inclined at 60° to the south was drilled to investigate the poorly exposed, but interpreted Warramunga sediment-quartz-felspar porphyry contact.

This 40 metres deep hole intersected the contact at 26 metres downhole depth. Shearing extends from about 22 metres to about 35 metres and 2 metres composite analyses indicated the presence of anomalous copper (maximum 64 ppm) and lead (maximum 92 ppm) values, together with intermittently slightly

anomalous gold (maximum 4 ppb) and bismuth (maximum 7 ppm). A log of this hole appears in Appendix V.

The original grid was partly reconstructed and 85 soil samples (-6mm + 20 mesh) were collected at 25 metre intervals along 100 metre spaced lines. The analytical results for these samples are plotted on Figure 27.

The results suggested the presence of a major geochemical anomaly; however this feature is orientated along the Warrego road. A detailed ground inspection revealed a dump of exotic "ore" material immediately south of the road on line 5,900 east. The anomaly location is consistent with contamination.

The grid was fully reconstructed with infill cross lines to 50 metre spacings. A bedrock geochemical survey of this grid with 50 by 25 metres spaced sample stations was planned and commenced.

Only 79 holes totalling 226 metres have so far been drilled. Bottom of hole geochemical analyses for copper and lead are plotted on Figure 28. No anomalous values were obtained in gold or bismuth. RAB hole logs are included as Appendix VI.

Two significant coincident copper-lead anomalies were indicated, one of which is located south of the deep RAB hole collar.

6.3 The Gray's Bluff Grid

6.3.1 Location and background

During reconnaissance mapping of EL 7443 three samples were taken from the vicinity of the ironstone outcrop located at the northeastern corner of the grid (see Geological/Grid plan Figure 30). Results were:

Sample No.	Gold (ppb)	Bismuth (ppm)	Copper (ppm)	Lead (ppm)
GBR 01	2	X	5	2
GBR 02	20/14	12	56	3
GBR 03	3	1	3	2

Samples GBR 01 and GBR 02 were of slickensided gossanous sericitic material from the small ironstone outcrop wall rocks in areas of old pitting.

The presence of abundant hydrothermal sericite was considered a favourable gold indicator and following receipt of the analyses a grid was constructed.

6.3.2 Results of 1991 Exploration

Parts of the northern and northeastern sections of this grid were soil sampled. Sixty samples of +6m -20 mesh lag material were collected at 40 metre intervals on lines spaced 80 metres apart and analysed for gold in ppb and copper, and bismuth in ppm. The results for gold and copper are plotted on Figure 30 and analytical values are included as Appendix VII.

The remainder of this grid was judged to be covered by transported soils.

Several areas of anomalous gold were identified and the highest value was recorded for a sample collected near the sericitic ironstone outcrop - 140 ppb gold.

7. FUTURE EXPLORATION

The bedrock geochemical survey within the 4.5 square kilometre area of the West Ivanhoe Grid has resulted in identification of about 65 discrete geochemical anomalies. These are defined as having no essential overlap with adjacent anomalies.

The locations of these anomalous features are plotted onto Figure 10 of this report.

Although priorities can be assigned on the bases of sizes of areas, element value amplitudes, and degrees of coincidence of anomalous values in more than one element it must be stressed that all of these anomalies should be followed up at some time.

This philosophy is dictated by the 80 metre x 40 metre sample spacing which could easily encompass the average dimensions of a Tennant Creek orebody.

The largest anomaly within the gridded area is exceptional in both size and amplitude. The shape of its 25 ppm copper value contour has prompted its naming as the "Pelican Zone", and it is believed that follow up work will demonstrate it to comprise a number of mineralised targets.

The "Pelican" zone, as defined by the 25 ppm copper contour is more than 1,400 metres in east-southeast-west-northwest length and is up to 400 metres wide. Within it and overlapping it are a number of areas variously anomalous in lead, bismuth and gold.

Other generally more discrete high priority anomalies, from west to east, are located and described as follows:

1. 7700E 9400N Anomalous copper to 52 ppm bismuth - 8 ppm.

1.	7700E	9400N	Anomalous copper to 52 ppm bismuth - 8 ppm.
2.	9000E	9040N	Anomalous lead to 13 ppm and gold - 4 ppb.
3.	9280E	9720N	Anomalous copper - 26 ppm, and bismuth 4 ppm.
4.	9440E	9040N	Overlapping anomalous copper - 26 ppm, lead - 90 ppm, and gold - 3 ppb.
5.	10240E	9480N	Anomalous copper - 32 ppm and bismuth - 4 ppm.
6.	10480E	9680N	Anomalous copper - 33 ppm, gold - 5 ppb, and overlapping bismuth - 45 ppm.
7.	10480E	9360N	Anomalous lead to 25 ppm and gold - 6 ppb.
8.	10560E	9920N	Anomalous copper - 28 ppm and bismuth - 10 ppm.
9.	10720E	9960N	This marks the centre of an east-west zone some 300 metres long anomalous in copper to 102 ppm at its western end and bismuth to 29 ppm at its eastern end.
10.	11160E	9020N	Overlapping anomalous lead - 13 ppm and gold - 6 ppb.
11.	11520E	9040N	Anomalous copper to 78 ppm and bismuth 14 ppm.
12.	12240E	9960N	Overlapping anomalous copper - 29 ppm, lead, - 25 ppm, and gold to 5 ppb.
13.	12320E	9040N	Overlapping copper - 26 ppm, bismuth - 8 ppm, and gold 3 ppb.
14.	12400E	9160N	Overlapping copper - 56 ppm, lead - 12 ppm, bismuth - 5 ppm, and gold to 4 ppb.
15.	12400E	9920N	Anomalous copper - 29 ppm, and gold.
16.	12560E	9560N	Overlapping anomalous copper to 44 ppm, lead to 12 ppm, and gold to 16 ppb.

Deeper vertical and inclined RAB drilling at 20 metres on 80 metre spaced lines is clearly not a satisfactory method of screening and eliminating anomalies. It is suggested that initial follow up should comprise infill bedrock geochemical RAB drilling to a 40 metre by 20 metre spacing prior to inclined RAB drill testing.

It is estimated that infill of the "Pelican Zone" will require an additional 170 holes and that the 17 anomalies listed above will require a further 230 holes.

The 400 holes required to complete the above programme are estimated to require a total of about 4,400 metres.

On the "Nelson Grid" the bedrock geochemical RAB drilling programme should be completed and anomalous areas should be infilled to 25 metre by 25 metre spacings. It is estimated that 300 holes totalling 1,200 metres will complete this programme.

The Gray's Bluff grid also requires bedrock geochemical RAB drilling, together with more detailed rock chip sampling of the area around the anomalous sericitic ironstone. It is estimated that about 200 holes totalling 800 metres will be required.

APPENDIX I

Genalysis Laboratory Services Pty. Ltd.
Summary of sample preparation and analytical techniques

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29 October 1991

Roebuck Resources Ltd
Tennant Creek

ATTENTION: Mr K Fox

Dear Keith

Herewith is a detailed procedure on the preparation and analysis of geochemical samples for Gold (and other elements if required) using the aqua regia digestion technique.

Sample Reception and Preparation

Completely separate and dedicated facilities for the preparation of samples submitted for 1 ppb (or lower) detection of Au exist at both Kalgoorlie and Maddington.

After sorting samples into numeric order and checking against clients submission sheet (discrepancies are reported to client) the total sample is emptied from the bag into an aluminium tray with an aluminium tag and loaded onto trolleys for drying at 100 - 110°C usually overnight.

The total sample is crushed if necessary, single stage mix and ground in an approximately sized chrome steel bowl pulverizer (capacity range 100gm to 3 Kg) to a bulk pulp of nominally 80% minus 75 micron. Approximately 250gm is packaged on a 5" x 3" paper envelope as the laboratory portion and the balance of the bulk pulp is stored in a new plastic bag.

Analysis

There is a completely separate and dedicated laboratory for the digestion of samples submitted for 1 ppb (or lower) detection of Au at Maddington.

A nominal 50gm portion of the pulp is digested with aqua regia for approximately 2 hours during which time the excess acid is evaporated and a paste results. The paste is re-dissolved in hydrochloric acid and vacuum filtered to remove the acid insolubles. The clear filtrate is made up to volume, mixed, and if other elements are required (Mn, Co, Ni, Cu, Zn, V, Cr, Fe, As, Mo, Ag, Cd, Sb, Te, Tl, Pb, Bi) a small aliquot of this liquor is taken for their analyses by flame AAS. The balance of the liquor is extracted with methyl iso-butyl ketone, the Gold chloride complex being extracted from the aqueous phase into the solvent phase. The solvent phase is backwashed to remove Fe. If 0.01 ppm detection is requested for Au, then this solvent is analysed by flame AAS (Method B/AAS).

If 1 ppb detection is required for Au then the solvent is present to Graphite Furnace AAS for analysis, after pre-screening by flame AAS to exclude any high samples (Method B/FT4)

genalysis laboratory services pty. ltd.

For samples reporting >200 ppb Au, the flame result is reported and the sample not presented to the Graphite Furnace (this prevents highly anomalous samples from contaminating the Graphite Furnace.

Blanks, standards (1 in every 30 samples) and 4% random duplicates are assayed at the same time. Up to 6%, (and sometimes more) selected repeats are run on another day/s by going back to the pulp and re-digesting another 50gm portion.

If any result for standard is outside the accepted range for the technique; or any random duplicate result, or any selected repeat result does not agree with the corresponding original result within the accepted variance for that technique; then the Quality Controller will instigate a series of check procedures thus:

1. Examination of raw data on any calculations

2. Closer scrutiny of all other standards, duplicates and repeats within the job

3. Scrutiny of values obtained for other elements in that standard or sample in that job

4. Re-analysis of all solutions for the element in question

These steps may instigate a series of additional re-assays which may extend from a few samples adjacent to the offending standard or sample to complete re-digestion and re-assay of the whole job.

Yours sincerely

John Flynn
LABORATORY MANAGER

jf.nr

cc. S.B. Warne
K. Fox
A.W. Mackie
Perth Office

APPENDIX II

West Ivanhoe Grid.
Bedrock geochemical vacuum drill hole logs, 1991.

PROJECT : TENNANT CREEK PROSPECT : IVANHOE E.L.

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 01	7/8/91 10,000	10,000	red br. 0.5m R	1.6	Minor hematite veining	SERICITIC SILTSTONE	2	x	5	3
IVV 02		9,960	red br. 0.5m R.	2.0	–	light brown SERICITIC SILTSTONE	1	1	2	2
IVV 03		9,920	red br. 1.0m R coll.	2.6	Some red br. hematitic bands	red br. & light brown SER. SILTST.	x	2	6	4
IVV 04		9,880	red br. 0.5m R(+ S.W?)	5.2	quartz hem. stringers. Some hem – chlor	red br & light brown weath. GW.	x	3	4	3
IVV 05		9,840	red br. 0.5 R.	5.2	Ferrugimous – chloritic?	buff & pink QFP ? GW	x	2	2	2
IVV 06		9,800	red br. 0.5m R	3.4	Very red at base – chloritic no texture or chips	red & buff ? QFP/GW quartz veined	1	1	5	2.
IVV 07		9,760	0.5m R	3.4	Red – brown haematitic.	decomposed qtz veined QFP?? GW	1	1	2	2
IVV 08		9,720	0.5m R	3.4	Red haematitic – chloritic?	Soft decomp QFP/GW?	x	2	4	2
IVV 09		9,680	0.5m R(+WB)	3.4.	Red hematitic – chloritic	red / red br. fine clay rock – SILT?	1	x	1	2
IVV 10		9,640	0.5m R(+WB)	3.4	HEMATITIC. – CHLORITIC ?	red & r b. QFP. qtz veined	x	x	4	2
IVV 11		9,600	1.0 m R (+ wb)	3.4	HEMATITIC – CHLORITIC? IN PART	red, brown, & pink q. veined QFP.	1	x	4	3
IVV 12		9,560	0.5m R.	3.4	HEMATITE RICH BANDS.	cream & red weath. QFP? or GW ??	1	x	4	3
IVV 13		9,520	0.5m R	3.4	VERY HEMATITIC –CHLORITIC	red with cream bands QFP qtz veined	1	x	5	3
IVV 14		9,480	0.5m R	3.4	VERY HEMATITIC (+ qtz hem. stringers) –CHLORITIC.	As above QFP.	1	x	7	3
IVV 15		9,440	0.5m R	3.4	minor qtz goeth veins	brown qtz veined GW or QFP ?	x	x	200	4
IVV 16		9,400	0.5 R	3.4	light brown UNALTERED	light brown (qtz veined) QFP, or GW	x	x	27	12
IVV 17		9,360	0.5 R	3.4	—	Pale pink & green brown q.v. QFP.	x	x	7	7
IVV 18		9,320	1.0 R + SW	3.4	–	yellow brown & pink QFP?	x	x	11	5
IVV 19		9,280	1.0 R + SW.	3.4	–	cream QFP minor q.v.	x	x	12	5
IVV 20		9,240	1.5? WB & SW?	4.4	–	cream quartz veined QFP?	x	x	10	4
IVV 21		9,200	1.5 WB & SW on R.	4.6	Ferruginous in parts.	cream quartz veined QFP.	1	x	11	6
IVV 22		9,160	1.5m WB & SW on R.	4.6	?	sticky red brown ferrug clay QFP	1	x	16	9
IVV 23		9,120	1.5m WB + SW on R	4.6	SHEARED? CLAY CHLORITE + DISSEM & STRINGER HEM.	greenish br. clay – hem. chloritic rock.	1	x	10	7
IVV 24		9,080	~20m WB + SW on R	4.6	~~Some~~ HEMATITE BANDS	brown cleaned QFP. or GW	x	x	13	11
IVV 25		9,040	2.0m WB & SW on R	4.6	–	becoming cream / red cream brown weath GW	1	x	10	11
IVV			1.5			cream / brown				

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 27	10,080	9,000	WB & SW on R (1.5)	4.4	HAEMATITIC	red-brown & orange QFP	1	x	9	3
IVV 28		9,040	WB & SW on R 1.5	4.4	–	light br. & cream ? QFP ?	1	x	8	6
IVV 29		9,080	1.5 m. WB & SW on R.	4.4	MINOR JASPER.	cream & light br. siliceous rock. QFP?	1	x	11	7
IVV 30		9,120	1.8 m. WB & SW on R	4.4	Possible limonitic barwork.	red & yellow brown ? GW.	x	x	34	7
IVV 31		9,160	1.5 m. WB & SW on R	4.4	TRACE TALC ?	brown & cream QFP ?	x	x	6	8
IVV 32		9,200	1.6 m WB & SW on R.	3.4	–	very clayey cream & brown QFP.	x	x	10	9
IVV 33		9,240	1.5 m WB & SW on R	3.4	-	pink and brown w. QFP?	1	x	12	7
IVV 34		9,280	1.2 m WB & SW on R	3.4	–	QFP.	x	x	7	11
IVV 35		9,320	0.5 m R	3.4	HEMATITIC	cream and red banded QFP	1	x	8	7
IVV 36		9,360	0.5 m R	3.4	MINOR HEMATITE	as above	1	x	19	4
IVV 37		9,400	0.5 m R	3.4	–	cream f.g. QFP sericitic?	1	x	8	4
IVV 38		9,440	0.8 m R	3.4	minor hematite.	chocolate cream GW/QFP?	1	x	9	2
IVV 39		9,480	0.5 m R	3.4	SOME HEMATITE	cream & red brown GW/QFP?	1	x	27	11
IVV 40		9,520	0.5 m R	3.4	–	brown & cream QFP?	1	x	3	3
IVV 41		9,560	0.5 m R	3.4	-	Pink & brown GW.	1	x	4	3
IVV 42		9,600	0.5 m R	3.4	minor hematite	Pink, light br., greenish br. GW	x	x	5	5
IVV 43		9,640	0.5 m R	3.4	trace talc?	Cream & brown QFP	1	x	4	3
IVV 44		9,680	0.5 m R	3.4	Some hematite and talc	red & green brown QFP.	x	x	4	3
IVV 45		9,720	0.5 m R	3.4	.	white & brown GW. or? QFP?	1	x	5	5
IVV 46		9,760	0.5 m R	3.4	-	pink Siltstone	1	x	5	3
IVV 47		9,800	0.5 m R.	3.4	-	pink & grey SILTSTONE	1	x	8	2
IVV 48		9,840	0.5 m R.	3.4	minor hematite	Pink & Cream SILTSTONE	x	x	3	3
I.V.V. 49		9,880	0.5 m R	3.4	–	Pink sericitic MUDST/SILTST.	1	x	5	4
IVV 50		9920	0.5 R	3.4	QUARTZ VEINS	Creamy white powder – quartz chips.	x	x	3	2
IVV 51		9,960	0.5 R	3.4	Minor Haematite.	Cream & pink SILTSTONE	1	x	3	2
IVV 52		10,000	0.5 R	3.4	–	pink sericitic SILTSTONE	x	x	2	2
7/8/91 Totals	51 holes totalling			189.6m.						

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 53	8/8/91 10,080 E	10,040	0.5m R	3.4	TALCOSE	cream talcose (sericitic) Schist - SILTSTONE	x	x	3	3
IVV 54		10 080	0.5m R	3.4	? trace talc.	Cream/grey sericitic SILTST. (?talc)	x	x	4	2
IVV 55		10,120	0.5m R	3.4	-	light brown & grey sericitic SILTSTONE	1	x	2	3
IVV 56		10,160	0.5m R	3.4	? some chlorite?	grey & green chloritic & sericitic SILTSTONE	1	x	3	3
IVV 57		10,200	0.5m R	3.4	-	grey & pink (diss. haem) SILTSTONE	x	x	2	2
IVV 58	10,160 E	10,200	0.5m R	3.4	-	grey & yell. br. SILTSTONE	x	x	2	2.
IVV 59		10,160	0.5m R	3.4.	-	Pinkish SILTSTONE	x	x	3	3
IVV 60		10,120	0.5m R	3.4	-	Pinkish SILTSTONE	x	x	1	3
IVV 61		10,080	0.5m R	3.4	-	pink & yellow br. SILTSTONE fine dissem.	x	x	2	2
IVV 62		10,040	0.5m R	3.4	trace talc? -	haematite Grey/brown SILTSTONE?	x	x	3	3
IVV 63		10,000	0.5m R	3.4	-	Pink & brown SILTSTONE	x	x	1	2
IVV 64		9,960	0.5m R	3.4	TALCOSE	Light brown sheared SILTSTONE?	x	x	1	2
IVV 65		9,920	0.5m R	3.4	Some haematite -	Yellow brown & pink qtz. veined QFP?	x	x	3	3
IVV 66		9,880	0.5m R	3.4	—	Pink & yellow-brown GREYWACKE	x	x	4	2
IVV 67		9,840	0.5m R	3.4	-	Pink & grey SILTSTONE	x	x	2	3
IVV 68		9,800	0.5m R	3.4	-	Light brown QFP/Silt	x	x	6	3
IVV 69		9,760	0.7 R	3.4	-	~~pink-red~~ thinly bedded SILTSTONE - dissem. haem	x	x	2	2
IVV 70		9,720	0.5 R	3.4	HAEMATITIC	Light red QFP	x	x	4	4
IVV 71		9,680	0.5 R	3.4	MORE HAEMATITIC	Red - orange QFP	x	x	1	2
IVV 72		9,640	0.5 R.	3.4	Ferruginous Slickensided - talcose	Light brown and pink sheared QFP? SILT?	x	x	2	4
IVV 73		9,600	0.5 R	3.4	Ferruginous - trace talc.	Red & white banded fe. QFP? Silt	x	x	3	3
91.8 IVV 74		9,560	0.5 R	3.4	-	Light brown Silt QFP?	x	x	25	7
IVV 75		9,520	0.5 R	3.4	CHLORISED AND SHEARED trc? talc?	Brown & green brown sheared ? QFP, Silt	x	x	19	7
IVV 76		9,480	0.5 R	3.4	VERY TALC RICH AND HAEMATITE RICH BANDS.	Red and White banded Sheared Rock	1	x	17	4
IVV 77		9,440	0.5 R	3.4	With TALCOSE BANDS.	Light br. sheared SILTST. & GW.	x	x	13	2
IVV 78		9,400	0.7 T/R	3.4	TALCOSE BANDS HAEMATITIC IN PART	Red-brown & white sheared QFP	1	x	5	3
IVV 79		9,360	0.5 T/R	3.4	TALCOSE AND FERRUGINOUS	As above	1	x	5	5

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 80	Cont. 10,160E	9,320	0.5m T / 0.5m R	3.4	-	Pink & white quartz veined QFP.	1	x	3	3
IVV 81		9,280	0.3m T / 0.7m R	3.4	-	Pink & white QFP.	1	x	5	6
IVV 82		9,240	0.5 T / 0.5 R	3.4	TALCOSE slightly haematitic	Red & white sheared QFP ?	2	x	7	5
IVV 83		9,200	0.5 T / 0.7R	3.4	-	Brown-white sheared QFP	1	x	7	7
IVV. 84		9,160	0.5 T / 1.0R	3.4	-	Brown, pink white sheared QFP.	1	x	10	7
IVV 85		9,120	0.5 T / 1.0R	3.4	-	Light brown-pink QFP.	x	x	12	6
IVV 86		9,080	0.6 T / 1.0R	5.2	-	Pink & brown quartz veined QFP	1	2	6	6
IVV 87		9,040	1.0 T / 1.0R	5.2	-	Brown & grey kaolinised? QFP.	x	x	5	4
IVV 88		9,000N.	2.5 T / ? R	5.2	-	Brown w. QFP.	x	x	5	6
IVV 89.	10,240E	9,000N	2 T / 0.5 R	5.2	-	Brown & pink QFP	1	x	4	8
IVV 90		9,040N	1.5 T / ? R	5.2	-	Pink & brown QFP. qtz veins/jasper	1	x	8	4
IVV 91		9,080N	1.0 T / 0.5R	5.2	-	pink & brown QFP	1	x	7	5
IVV 92		9,120N	0.5 T / 0.5 R	3.4	-	light brown QFP ? very soft.	1	x	4	3
IVV 93		9,160N	0.5 T / 0.5 R	3.4	-	light br. & brown. w. QFP	1	x	15	6
IVV 94		9,200N	0.5m T / 0.5 Rm	3.4	HAEMATITE - CHLORITE ROCK	Very dark grey-brown red rock.	1	x	13	15
IVV 95		9,240N	0.5 T / 0.5m R	3.4	-	brown & white quartz veined sheared QFP	2	x	7	6
IVV 96		9,280	0.5 T / 0.5 R	3.4	-	brown qtz. veined QFP.	1	x	5	4
IVV 97		9,320	0.2 T / 0.5R	3.4	-	cream & white as above	1	x	4	8
IVV 98		9,360	0.2 T / 0.5 R	3.4	MINOR TALC	pink haematitic ? sheared SILTSTONE	1	x	8	4
IVV 99		9,400	0.5m R	3.4	TALCOSE	Pink & white QFP ?	1	x	4	4
IVV 100		9440	0.5m R	3.4	traces of talc	Light brown & white sheared QW ?	2	x	8	2
IVV 101		9480	0.5m R	3.4	traces of talc	White & brown soft sheared QFP.	x	4	32	3
IVV 102.		9520	0.5m R	3.4	ALTERNATION WHITE TALCOSE AND RED HAEMATITIC (CHLOR)	red and white banded sheared rock	x	x	2	2
IVV 103		9560	0.5m R	3.4	-	brown & pink sheared QFP.	1	x	37	3
IVV 104		9600	0.5 R	3.4	-	light brown soft sheared SILTST.	x	x	9	3
IVV 105		9640	0.5 R	3.4	-	light red-brown sheared rock ?	1	x	6	2
IVV 106		9680	0.5 R.	3.4	VERY HAEMATITIC.	red sheared QFP	x	x	4	2

102.60
91.80
194.4

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 107	Cont 10,240E	9720	0.5m R	3.4	-	Pink haematitic SILTSTONE (GW)	x	x	9	2
IVV 108		9,760	0.5m R	3.4	VERY HAEMATITIC - MASSIVE CHLORITE ROCK	Red and green-brown sheared QFP.	x	x	5	3
IVV 109		9800	0.5m R	3.4	-	Pink sericitic SILTSTONE	x	x	3	2
IVV 110		9,840	0.5m R	3.4	-	Pink brown, green brown w. G. WACKE	x	x	5	3
IVV 111		9,880	0.5m R	3.4	minor talc. -	pink cream yellow SILTSTONE	x	x	7	2
IVV 112		9,920	0.3m R	3.4	-	grey & yellow-brown SILTSTONE	x	x	8	3
IVV 113		9,960	0.3m R	3.4	VERY TALCOSE	Pale cream & grey TALC SCHIST	x	x	3	2
IVV 114		10,000	0.3m R	3.4	VERY TALCOSE WITH QUARTZ-HEMATITE STRING.	light brown talc-hematite-clay schist ? SILT.	x	x	5	2
IVV 115		10,040	0.3m R	3.4	-	pale pink-purple SILTSTONE	x	x	2	3
IVV 116		10,080	0.3m R	3.4	-	Pale pink & cream SILTSTONE	x	x	3	3
IVV 117		10,120	0.5m R	3.4	-	Pink haematitic SILTSTONE	x	x	3	3
IVV 118		10,160	0.5m R.	3.4	-	Pink haematitic SILTSTONE	x	x	3	2
IVV 119		10,200	0.5m R	3.4	-	Pink sericitic SILTSTONE	x	x	2	2
IVV 120	10,320E	10,200	0.3m R	3.4	-	Pale pink-grey SILTSTONE	x	x	4	2
IVV 121		10,160	0.3m R	3.4	-	Pink SILTSTONE	x	x	2	2
IVV 122		10,120	0.3m R	3.4	-	Pink and light green SILTSTONE	x	x	8	2
IVV 123		10,080	0.3m R	3.4	Some hematite	Red haem. & yellow brown SILTSTONE	x	x	3	2
IVV 124		10,040	0.3m R	3.4	-	SILTSTONE as above	x	x	3	2
IVV 125		10,000	0.5m R	3.4	Some talc	Pink-red SILTSTONE	x	x	5	2
IVV 126		9,960	0.5m R	3.4	traces of talc?	Light brown & pink SILTSTONE	x	x	7	2
IVV 127		9,920	0.5m R	3.4	with TALC and HAEMATITE	Darker pink GW QFP ?	x	x	5	2
IVV 128		9,880	0.5m R	3.4	-	Green-brown SILTSTONE	x	x	8	3
IVV 129		9,840	0.5m R	3.4	-	Very pale grey SILTSTONE	x	x	3	2
IVV 130		9,800	0.5m R	3.4	VERY HAEMATITIC AND SHEARED.	Very red. haematitic QFP ? GW	x	x	8	4
IVV 131		9,760	0.5m R	3.4	Slightly talcose CHLORITE SCHIST	Purple, brown, light green sheared rock. SCHIST	x	x	3	2
IVV 132		9,720	0.5 R	3.4	HAEMATITIC & CHLORITE minor talc	Red sheared rock.	1	x	6	6
IVV 133	(5m South of IRONST.)	9,680	0.5 R	3.4	-	Multicoloured SILTSTONE	x	x	10	2

91.8
194.4
286.2

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 134	continued 10,320E	9,640	0.5m R	3.4	TALC SCHIST	Light brown sheared talc schist	1	x	6	4
IVV 135		9,600	0.5m R	3.4	TALCOSE	Light brown sheared QFP. ?	x	x	5	3
IVV 136		9,560	0.5m R	3.4	–	Red brown MUDSTONE	1	x	4	3
IVV 137		9,520	0.5m R	3.4	HAEMATITE ex CHLORITE	Red brown SILTSTONE	1	x	19	3
IVV 138		9,480	0.5m R	3.4	HAEMATITE ex CHLORITE	Red haematitic sheared SILT.	x	x	10	3
IVV 139		9,440	0.5m R	3.4	Minor haematite ex Chlorite	Rede yellow brown SILTSTONE	1	x	4	3
IVV 140		9,400	1.5 R gravel	3.4	–	Light green QFP.	1	x	7	3
IVV 141		9,360	1.0 R	3.4	–	Pink and green brown QFP	1	x	4	4
IVV 142		9,320	1.0 R	3.4	–	QFP as above	1	x	7	5
IVV 143	9/8/91	9,280	1.0 R	3.2	–	cream. buff qtz veined QFP.	1	x	7	6
IVV 144		9,240	1.0 R	3.2	–	Cream brown qtz veined QFP	1	x	4	8
IVV 145		9,200	0.3m T / 0.7m R	3.2	–	Pinkee cream QFP	2	x	8	8
IVV 146		9,160	0.3m T / 1.3m R	5.2	–	Cream yellow QFP.	1	x	16	5
IVV 147		9,120	0.5m T / 1.3R	3.4	TALCOSE	Yell. brown sheared QFP.	1	x	7	4
IVV 148		9,080	0.5m T / 1.5m R	5.2	–	Brown quartz veined QFP.	1	x	7	6
IVV 149		9,040	0.75m T / 1.5m R	7.0	(LESTONED) HAEMATITE – QUARTZ STRINGER ZONE	Red and brown veined shear QFP.	1	x	11	13
IVV 150		9,000	0.75m T / 1.5m R	5.2	SHEARED AND HAEMATITIC IN PART EX. CHLORITE	Red & cream sheared QFP. (qv)	1	x	5	6
IVV 151	10A00E	9,000	0.75m T / 1.5m R	5.2	–	Pink qtz veined QFP	1	x	3	5
IVV 152		9,040	0.8m T / 1.5m R	5.2	? trace talc ?	Light brown QFP	1	x	7	4
IVV 153		9,080	0.5m T / 0.8m R	5.2	VERY TALCOSE	Cream sheared QFP	1	x	4	3
IVV 154		9,120	0.5m T / 0.5m R	3.4	ALTERNATING VERY TALCOSE AND HAEM RICH BANDS. (CHL).	red and white sheared ? ROCK ?	1	x	4	5
IVV 155		9,160	0.3m T / 0.5m R	3.4	–	Brown QFP	1	x	6	10
IVV 156		9,200	0.2m T / 0.5m R	3.4	TALCOSE.	White QFP.	2	x	7	7
IVV 157		9,240	0.2m T / 0.5m R	3.4	SLIGHT HAEMATITE ex CHLORITE	Pinke white QFP.	1	x	8	8
IVV 158.		9,280	0.5m R	3.4	SHEARED AND TALCOSE	Red and cream sheared ? SILT well cleaved	1	x	6	5
IVV 159		9,320	0.5m R	3.4	–	Pale grey & green QFP	1	x	5	9
IVV 160		9,360	0.2m R	3.4	–	Light brown and green QFP.	1	x	11	4

8/8/91 TOTAL 9 holes 316.8

286.2
30.6
316.8

DRAINAGE CHANNEL

7.0

10

5.1

~~16.5~~
5.0
10.4

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 161	10,400E continued	9,400	0.5m R	3.4	Some chlorite (trace talc?)	Yellowbrown sheared ? QFP?	1	x	7	4
IVV 162		9,440	0.5m R	3.4	-	Cream quartz-goeth veined QFP?	1	x	10	5
IVV 163		9,480	0.5m R	3.4	-	Light brown + pink SILTSTONE	1	x	7	4
IVV 164		9,520	0.5m R	3.4	-	Brown SILTSTONE	x	x	6	2
IVV 165		9,560	0.5m R	3.4	Talcose	Cream sheared ? GREYWACKE	x	x	5	3
IVV 166		9,600	0.5m R	3.4	TALCOSE	Light brown sheared ? SILTSTONE	x	x	8	2
IVV 167		9,640	0.5m R	3.4	-	Pink SILTSTONE	x	x	5	2
IVV 168		9,680	0.5m R	3.4	-	Light brown quartz veined ? SILTST.	x	x	5	2
IVV 169		9,720	0.5m R	3.4	-	Light brown quartz veined ? QFP ?	x	x	6	3
IVV 170		9,760	0.5m R	3.4	Slightly talcose	Light brown sheared SILTSTONE?	x	x	4	2
IVV 171		9,800	>0.5m R	3.4	-	Pink SILTSTONE	2	x	4	2
IVV 172.		9,840	>0.5m R	3.4	-	Pink & red SILTSTONE	x	x	3	2
IVV 173		9,880	>0.5m R	3.4	? trace talc ?	Pink SILTSTONE / MUDSTONE	x	x	4	2
IVV 174		9,920	>0.5m R	3.4	-	Pink / red SILTSTONE	x	x	1	3
IVV 175		9,960	0.5m R	3.4	-	Pink/red SILTSTONE	1	x	2	4
IVV 176.		10,000	0.5m R	3.4	talcose	Light brown - red brown sheared GREYWACKE	x	x	3	3
IVV 177		10,040	0.5m R	3.4	—	Pink SILTSTONE	x	x	3	3
IVV 178		10,080	>0.5m R	3.4	trace talc ?	Pink SILTSTONE	x	x	1	3
IVV 179		10,120	1.0m R	3.4	trace talc ?	Light brown pink SILTST. QUARTZ VEINS	x	x	5	3
IVV 180		10,160	0.75m R	3.4	-	Light brown and pink SILTSTONE	x	x	2	2
IVV 181		10,200	0.5m R	3.4	-	pink SILTSTONE	3	x	3	2
IVV 182	10,480E	10,200	0.2m R	3.4	-	Pink SILTSTONE	x	x	3	2
IVV 183		10,160	0.4m R	3.4	Some talc ?	Pink hematic SILTSTONE	1	x	4	3
IVV 184		10,120	0.4m R	3.4	talcose	Pink SILTSTONE	x	x	2	2
IVV 185		10,080	0.5m R	3.4	TALCOSE	light brown sheared SILTST. + GW.	x	x	3	2
IVV 186		10,040	0.5m R	3.4	minor talc ?	Pink & grey SILTSTONE	x	x	4	2
IVV 187		10,000	0.5m R	3.4	-	Pink. SILTSTONE	x	x	4	3

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 188	10,480E continued	9,960	0.5m R	3.4	Some talc	Light brown GREYWACKE	x	x	6	2
IVV 189		9,920	0.5m R.	3.4	? trace talc ?	Pink red SILTSTONE	x	x	2	2
IVV 190		9,880	0.5m R	3.4	–	Pink GREYWACKE	x	x	2	2
IVV 191		9,840	0.5m R	3.4	Some haematite? or chlorite.	Pink-red GREYWACKE	x	x	1	2
IVV 192		9,800	0.5m R	3.4	minor talc	Orange & pink QFP + SILTST.	x	x	4	2
IVV 193		9,760	0.5m R.	3.4	HAEMATITE + H. (CHLORITE) + TALC.	Dark red brown and pale green SHEARED ROCK	x	x	10	5
IVV 194		9,720	0.5m R.	3.4	talcose	Yellow brown SILTSTONE	x	x	4	x
IVV 195		9,680	0.7m R	3.4	talcose	Grey sheared QFP	5 4	x	33	2
IVV 196		9,640	0.7m R	3.4	minor talc	Pink & yellow ?QFP?	1 x	45	12	4
IVV 197		9,600	0.7m R	3.4	minor talc	Pink and grey SILTSTONE	x	x	6	2
IVV 198		9,560	0.7m R	3.4	TALCOSE + haematite.	Red and brown sheared ?QFP?	1	x	10	2
IVV 199		9,520	0.7m R	3.4	talcose	Light brown SILTSTONE	1	x	17	2
IVV 200		9,480	R 0.7m	3.4	TALCOSE and haematitic ex.chl.	Pale red and white GREYWACKE	x	1	4	4
IVV 201		9,440	R 0.7m	3.4	–	Pink GREYWACKE	x	x	11	6
IVV 202		9,400	1.0m R	3.4	–	Light brown QFP	1	x	8	8
IVV 203		9,360	1.0m R	3.4	– Kaolinised –	White & pale yellow QFP	7 5	x	5	25
IVV 204		9,320	1.0 R	3.4	– Kaolinised – ? trace talc?	White and light brown sheared QFP.	1	x	7	6
IVV 205		9,280	6.2 T / 0.5 R	3.4	– KAOLINISED – ? trace talc?	White fine grained rock.	1	x	7	9
IVV 206		9,240	0.8m R	3.4	VERY TALCOSE + HAEMITE ex. CHLOR.	Red and White sheared QFP.	1	x	5	7
IVV 207		9,200	0.2m T / 0.5 R	3.4	TALCOSE & HAEMATITE ex CHLORITE	Red and white sheared QFP.	1	x	7	4
IVV 208		9,160	0.5 T / 1.0 R	3.4	TALCOSE & HAEMATITIC ex CHL.	Red & white QFP	1	x	7	5
IVV 209		9,120	0.5 T / 0.8 R	3.4	–	Pink & white QFP	1	x	8	7
IVV 210		9,080	0.5 T / 0.5 R	3.4	Some talc	Brown sheared QFP	2	x	13	4
IVV 211		9,040	0.5 T / 0.5 R	3.4	–	Pink & white QFP	2	x	5	4
IVV 212.		9,000	0.5 T / 0.5 R	3.4	–	Brown QFP.	1	x	13	8
IVV 213	10,560E	9,000	0.5 T / 1.0 R	5.2	minor haematite	Green sheared QFP	1	x	15	5
IVV 214	END 9/9/91	9,040	0.5 T / 1.0 R?	3.4	–	Light brown QFP	1	x	10	10

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 215	Continued 10 560E 10/8/91	9,080	0.5 T / 0.5 R	3.2	? SILICIFIED TALC CARBONATE	Siliceous brown - red talcose rock	1	x	9	3
IVV 216		9,120	? 0.5 T ? / 0.5 R	3.2	SLIGHTLY TALCOSE	Light brown quartz veined QFP?	1	x	7	6
IVV 217		9,160	1.0 R	3.2	minor talc?	Pink & brown sheared SILTSTONE	1	x	6	3
IVV 218		9,200	0.75 R	3.2	TALCOSE TO SLIGHTLY TALCOSE	Pale green & brown sheared f.gr. rock?	1	x	7	11
IVV 219		9,240	1.0 R	3.2	-	Red-brown & white QFP ?	1	x	6	4
IVV 220		9,280	1.0 R	3.2	POSSIBLY SILICIFIED TALC - CARB.	Light brown silicified in part sheared QFP?	1	x	8	3
IVV 221		9,320	> 0.5 R	3.2	TALCOSE AND HAEMATIC ex CHL.	Red & white sheared QFP.	x	x	6	6
IVV 222		9,360	0.7 R	3.2	-	Light brown QFP	x	x	8	12
IVV 223.		9,400	0.7 R	3.2	-	Red brown & pale green QFP	1	x	10	16
IVV 224		9,440	0.7 R	3.2	-	Pink and greenish cream SILTSTONE	1	x	6	4
IVV 225		9,480	0.7 R	3.2	-	Pale pink & brown SILTSTONE	1	x	5	3
IVV 226		9,520	0.7 R	3.2	-	Pale green & brown SILTSTONE	x	x	8	5
IVV 227		9,560	0.7 R	3.2	-	Red brown and light grey SILTST. & GW	1	x	2	2
IVV 228		9,600	0.8 R	3.2	QUARTZ VEINS	Light brown QUARTZ VEINED GREYWACKE	x	x	5	2
IVV 229		9,640	0.8 R	3.2	QUARTZ VEINS.	Pink & brown QUARTZ VEINED SILTSTONE	1	x	6	2
IVV 230		9680	0.7 R	3.2	-	Light brown quartz veined GREYWACKE	1	x	3	2
IVV 231		9,720	0.6 R	3.2	-	Pink SILTSTONE	x	x	4	3
IVV 232		9,760	0.6 R	3.2	-	Pink & light brown SILTSTONE dissem. haem	x	x	4	3
IVV 233.		9,800	0.6 R	3.2	Minor talc	Pink SILTSTONE	x	x	7	3
IVV 234		9,840	0.6 R	3.2	traces of talc?	Light brown QFP? or GW	x	x	8	2
IVV 235		9,880	0.6 R	3.2	-	Light green & brown GREYWACKE	x	x	5	2
IVV 236		9,920	R 0.5	3.2	trace talc	Pink SILTSTONE	x	10	28	2
IVV 237		9,960	0.5 R	3.2	-	Pink SILTSTONE dissem. haem	x	x	6	1
IVV 238		10,000	0.5 R	3.2	-	Pink SILSTONE + dissem haem	x	x	2	2
IVV 239		10,040	0.5 R	3.2	-	Light brown SILTSTONE + dissem. haem	x	x	3	2
IVV 240		10,080	0.5 R	3.2	-	Light brown and pink GREYWACKE	x	x	4	2
IVV 241		10,120	0.2 R	3.2	-	PINK SILTSTONE	1	x	3	1

27
3.2
5.4
a 1
86.4

Tube Corrected

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 242	10,560E Continued	10,160	0.5 R	3.2	–	Pink SILTSTONE	x	x	6	3
IVV 243		10,200	0.2 R	3.2	–	Light brown and pink SILTSTONE	1	x	6	2
IVV 244	10,640E	10,200	0.1 R	3.2	–	Pink quartz veined GREYWACKE	x	x	10	2
IVV 245		10,160	0.2 R	3.2	–	Pink SILTSTONE	1	x	3	2
IVV 246		10,120	0.2 R	3.2	–	Pink SILTSTONE	x	x	3	4
IVV 247		10,080	0.3 R	3.2	trace talc	Pink SILTSTONE	x	x	4	4
IVV 248		10,040	0.3 R	3.2	—	Pink SILTSTONE	x	x	3	2
IVV 249		10,000	0.3 R	3.2	–	Pink SILTSTONE	x	x	9	2
IVV 250		9,960	0.4 R	3.2	–	Pink SILTSTONE	x	x	3	2
IVV 251		9,920	0.5 R	3.2	Minor talc	Pink sheared Siltstone	x	x	6	5
IVV 252	*	9,880	0.5 R	3.2	VERY TALCOSE and Haematitic (ex CHL).	Pink, Green-brown & red sheared SILTSTONE	1	x	39	3
IVV 253	*	9,840	0.5 R	3.2	TALCOSE	Brown quartz veined sheared rock	x	x	6	4
IVV 254	*	9,800	0.5 R	3.2	TALCOSE	Light brown sheared SILTSTONE	1	x	9	3
IVV 255	*	9,760	0.5 R	3.2	VERY TALCOSE	L. Brown-cream ferruginous ? QFP ?	x	2	12	3
IVV 256		9,720	0.5 R	3.2	? trace talc ?	Pink SILTSTONE	x	x	2	2
IVV 257		9,680	R 0.5	3.2	? " " ?	Brown & pink quartz veined SILTSTONE	x	x	17	2
IVV 258	*	9,640	0.5 R	3.2	VERY TALCOSE Some haematitic ex. chlor.	Red-brown and white sheared SILTST.	x	x	3	1
IVV 259	*	9,600	0.5 R	3.2	TALCOSE and Haematitic ex. Chlor.	Pink & yellow-brown sheared rock.	x	x	7	1
IVV 260	*	9,560	0.5 R	3.2	TALC CARBONATE WITH SOME H. HAEM. STR.	Light brown altered rock.	1	x	6	2
IVV 261	*	9,520	0.7 R	3.2	TALC CARBONATE ROCK.	Light brown altered quartz veined ROCK	1	x	12	8
IVV 262	*	9,480	0.7 R	3.2	VERY TALCOSE + CARBONATE	Cream & pink altered rock.	1	x	2	3
Character. * IVV 263	*	9,440	0.7 R	3.2	CARBONATE – TALC – ? JASPER	Cream and pink altered rock (QFP)	1	x	20	13
IVV 264	*	9,400	1.0 R	3.2	TALC with minor carbonate	White to pale grey altered rock.	x	x	3	7
86.4m IVV 265	*	9,360	0.7 R	3.2	TALC, HAEMATITE ex CHLORITE. MINOR CARBONATE	Light brown, red and white altered rock	x	x	5	3
IVV 266		9,320	0.7 R	3.2	SOME TALC	Brown & white sheared SILTSTONE	1	x	5	5
IVV 267		9,280	1.0 R	3.2	–	Red and white kaolinitic ? rock. SILT?	1	x	3	3
IVV 268	*	9240	1.0 R.	3.2	TALC. CARBONATE – HAEMATITE ex CHLOR	Red brown and creamy white sheared altered rock.	1	x	3	4

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 269	*10,640E Continued	9,200	1.0 R	3.2	VERY TALCOSE some haematite ex. chlorite	White and pink talc schist	x	x	1	2
IVV 270	*	9,160	R 1.5?	3.2	TALCOSE AND LIMONITE some haemat. ex. chl	Brown pink & cream sheared SILTSTONE?	1	x	8	6
IVV 271	*	9,120	1.0 R	3.2	CARBONATE & SOME TALC.	Light brown & cream sheared QFP?	x	x	4	4
IVV 272.	*	9,080	0.4 T / 0.8 R?	3.2	TALCOSE (very)	Light brown & cream sheared alt. rock	1	x	12	3
IVV 273		9,040	0.5 T / 1.0 R	4.8	-	Pink & brown & very veined QFP	1	x	6	3
IVV 274		9,000	0.80 T / 1.0 R	4.8	-	Brown & cream qtz veined QFP.	1	x	14	5
IVV 275	10,720E	9000	3.0 T / 0.2? R	4.8	-	Pink & light brown QFP.	1	x	3	6
IVV 276		9,040	1.6 T	4.8	-	Pale green, pink light brown QFP.	1	x	6	6
IVV 277		9,080	1.0 T / 0.8 R	4.8	minor talc	Light brown, pink, green QFP.	1	x	2	3
IVV 278	*	9,120	0.5 T / 0.5 R	3.2	TALCOSE	Light brown sheared QFP?	1	x	6	6
IVV 279	*	9,160	0.3 T / R 0.5	3.2	TALCOSE + some carbonate?	Cream & light brown sheared rock	1	x	6	14
IVV 280	x	9,200	0.4 T / 0.5 R	3.2	HAEMATITE ex CHL. SOME TALC & CARB.	Red, white & brown alt. QFP?	1	x	3	4
EVO	11/8/91 (½ day) 39 holes totaling 141.6 m									
IVV 281	START 12/8/91 *	9,240	0.5 R	3.4	CARBONATE - TALC - LIMONITE	Pale reddish brown and green altered rock.	1	x	6	4
IVV 282	*	9,280	0.5 R	3.4	HAEMATITE ex CHL. TALC - CARBONATE	Red and pale green cream sheared alt. rock.	1	x	10	8
IVV 283	NB: Well. Br. * sulph. b. well in some chips	9,320	0.7R R	3.4	LIMONITE - TALC - CARBONATE	Red brown & white sheared alt. rock	1	x	3	4
IVV 284	*	9,360	0.7 R	3.4	TALCOSE + limonite	Brown sheared SILTSTONE	1	x	5	3
IVV 285	*	9,400	0.7 R	3.4	VERY TALCOSE + CARBONATE + LIMONITE	White to light brown altered rock.	1	x	3	8
IVV 286	*	9440	0.7 R	3.4	TALC - CARB - LIMONITE - HAEM SOME MUSCOVITE?	Light br. - red br. altered rock.	1	x	14	11
IVV 287	*	9480	0.9 R	3.4	Light grey to red brown TALCOSE	Light grey to red brown GW. & SILTST.	x	x	7	4
IVV 288		9,520	0.7 R	3.4	Minor talc	Pink & cream SILTSTONE	x	x	1	4
IVV 289	*	9,560	0.5 R	3.4	SOMEWHAT TALCOSE AND HAEMATITIC ex CHL.	Red brown quartz veined GREYWACKE	x	x	4	3
IVV 290	*	9,600	0.5 R	3.4	STILL TALCOSE + THIN HARD HAEM.! GOETH. GOSSAN BANDS?	Lightened br. to brown SILTSTONE?	1	x	2	2
IVV 291	*	9,640	0.5 R	3.4	VERY TALCOSE with HARD HAEM. (ex chl) STRING.	Pale cream to brown sheared QFP?	x	x	8	1
IVV 292		9,680	0.5 R	3.4	-	Pink & light brown SILTSTONE	x	x	21	2
IVV 293		9,720	0.5 R	3.4	Talcose + haematite ex. Chl.	Red brown SILTSTONE	x	x	4	2
IVV 294		9,760	0.5 R	3.4	Talcose	Pink & light brown sheared GREYWACKE	x	x	4	2

86.4
50.4
136.8

39 holes

less altered TALC - LIMONITE - HAEM →

STRINGERS

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 295	10,720E continued	9,800	0.5 R	3.4	? trace talc ?	Light (yellowish) brown SILTSTONE	x	x	2	2
IVV 296		9,840	0.5 R.	3.4	haematite ex. chlorite ? trace talc ?	Red-pink GREYWACKE	x	x	3	2
IVV 297		9,880	0.5 R	3.4	–	Pink GREYWACKE	x	x	2	2
IVV 298		9,920	0.5 R	3.4	–	Pink quartz veined SILTSTONE	x	x	30	2
IVV 299		9,960	0.2 R	3.4	Hematite ex chlorite	Deep mauve (-red) SILTSTONE	x	27	102	3
IVV 300		10,000	R 0.5	3.4	–	Pink - mauve & yell. brown GREYWACKE	x	x	2	2
IVV 301		10,040	R 0.5	3.4	–	Pink quartz veined GREYWACKE	x	x	2	1
IVV 302		10,080	R 0.5	3.4	Haematite ex chl. + trace talc?	Pink & red br. quartz veined SILTSTONE	x	x	4	2
IVV 303		10,120	0.3 R	3.4	Haematite ex chlorite	Pink-mauve reddish SILTSTONE	x	x	6	1
IVV 304	*	10,160	0.2 R (occ.)	3.4	TALCOSE + QUARTZ HEMATITE VEINS (OVERCAST)	Sheared light brown SILTSTONE	x	x	3	4
IVV 305		10,200	0.1 R (outcr.)	3.4	QUARTZ VEINING	SILTSTONE as above	x	x	5	3
IVV 306	10,800E	10,200	0.1 R (o/c)	3.4	Talcose + qtz-haem. veins	Pink siltstone	1	x	2	1
IVV ~~306~~ 307		10160	0.1 R (o/c)	3.4	slightly talcose qtz + haem. vn.	Pink siltstone	4 6	x	2	2
IVV 308		10120	0.1 R (qtz-gran)	3.4	chloritic + qtz vns, tr. Fe ox.	Pink siltst. – Red siltst.	x	x	3	2
IVV 309		10080	0.2 R qtz vn. o/c	3.4	Haem. ex chlorite	PINK SILTSTONE	2	x	2	2
IVV 310		10040	0.3 R qtz gravel	3.4	Haematitic.	Dark red siltstone	x	x	2	2
IVV 311		10000	R 0.2 qtz gravel near qtz. vn	3.4	Haematitic, ex chlorite, sl. talcose	Dark red siltstone	x	x	4	1
IVV 312		9960	R 0.1 water o/c qtz + tr haem.	3.4	Abund. qtz-haem. vns., chl.	Brown ? limon. siltst. + red siltst.	x	x	3	1
IVV 313		9920	0.2 R	3.4	chlorite qtz-haem. vns.	Red siltstone	x	x	2	1
IVV 314		9880	0.3 R	3.4	strongly talcose	pink, white and limonitic brown siltst.	x	x	1	2
IVV 315		9840	0.3 R	3.4	fractured, haematitic slightly talcose	red siltst., red-br. siltst.	1	x	3	3
IVV 316		9800	0.4 R	3.4	slightly talcose	pink, kaolin. siltstone	x	x	1	4
IVV 317		9760	R 0.3 qtz-haem. ok near	3.4	silic. talc, carbonate chlorite	brown red alt. siltst.	x	x	2	2
IVV 318		9720	R 0.3 blue gravel green wash	3.4	chlorite, carbonate qtz vns, tr. haem.	Deep red chl. siltst.	x	x	1	1
IVV 319		9680	R 0.5	3.4	chlorite, carbonate tr. vn. qtz.	Deep red chl. siltst.	1	x	2	2
IVV 320		9640	R 0.3 chl siltst. ok	5.2	talcose, minor vein qtz	Kaolinised talcose pink siltst.	x	x	2	1
IVV 321		9600	R 0.3	3.4	Chlorite, silic. talc-carb. (minor acid reaction)	Green talc-carb Red chl siltst.	x	x	2	2

Drill 14 holes
3.4
5.6
2
47.6 m

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 322	10800	9560	T 0.1 / R 0.4	3.4	chlorite, trace carbonate	white kaol. silted. glw + dk red glw.	x	x	2	2
IVV 323		9520	T 0.1 / R 0.2	3.4	abundant carbonate plentiful vn. qtz	brownish white kaolin. f.g. glw	2	x	2	3
IVV 324		9480	T 0.2 / R 0.2	3.4	abundant carb., abund. qtz + haem	alt. chl. glw red brown – black	x	x	6	4
IVV 325		9440	T 0.2 / R 0.3	3.4	abund. carb., " qtz-haem greenish ? talc	red chl. glw	1	x	5	3
IVV 326		9400	R 0.5	3.4	white ? silic. carb ± talc.	brown glw + dom. white silic ? carb.	x	x	4	5
IVV 327		9360	R 0.5	3.4	abund. carb. qtz, Fe ox. ex chl.	brown ox. chl. glwacke	x	x	3	3
IVV 328		9320	T 0.4 / ? R 1.0	3.4	gossan chips? sl. talcose, qtz. trace carb.	brown glw	1	x	5	4
IVV 329		9280	R 0.3	3.4	chlorite, qtz	red chl. sheared glw + white kaolin	1	x	6	3
IVV 330		9240	T 0.5 silt	3.4	talcose + abund. qtz	brownish white kaolin. glw	x	x	4	4
IVV 331		9200	T 0.6 silt/gravel	3.4	chlorite vn. qtz	red chl. glw	1	x	5	13
IVV 332		9160	T 0.8	3.4	abund. carbonate	silic. carb. + f.g. alt. chl. glw	1	x	2	6
IVV 333		9120	T 0.8	3.4	abund. carbonate tr. haem.	red. chl. glw + ? carb.	1	x	6	7
IVV 334		9080	T 0.8	3.4	abund. carb. + qtz (silic. carb ?)	dk. red, sheared chl. greyw. + silic. carb.	1	x	5	7
IVV 335		9040	T 1.0	3.4	abund. carb + " qtz	brown Clay ? qfp	x	4	4	x
IVV 336		9000	T +1.0	3.4	—	q.f. porph.	1	x	6	6
IVV 337	10880	9000	T +1.0	3.4	carbonate	q.f. porph.	1	x	9	6
IVV 338		9040	T 0.6	3.4	—	kaolinised q.f.p.	1	x	7	6
IVV 339		9080	T 0.6	3.4	minor carbonate	alt. sed. + ? q.f.p	1	x	4	6
IVV 340		9120	T 1.0	3.4	minor carbonate silic. talc chlorite	silic. talc-carb + chl. red glwacke	1	x	6	6
IVV 341		9160	T 0.7	3.4	carbonate (? gossanous rock)	brown ferrug glw + silic carb.	1	x	4	9
IVV 342		9200	T 1.0	3.4	carbonate qtz vns.	white kaolin. carbonated glw	1	x	3	5
IVV 343		9240	T 0.9	3.4	carbonate limonite	brown limonitic glw + alt. ? qfp	1	x	3	3
IVV 344		9280	T 0.7	3.4	massive carbonate & silic. carb.	greenish silic. carb.	1	x	2	6
IVV 345		9320	T 1.5	3.4	carbonate silic-ferrug ? gossan	pale pink glw & carbonate	1	x	4	3
IVV 346		9360	T 1.2	3.4	carbonate	brown qfp + carbonate	1	x	1	4
IVV 347		9400	T 1.0	3.4	?	kaolin, silic mottled glw	x	x	2	8
IVV 348		9440	T 0.5	3.4	—	kaolin. glw	1	x	3	4

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BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
	IVV 349	10880	9480	T 0.3	3.4	carbonate tr mafic in carbonate	pink & brown carbonated glw	1	x	1	6
	IVV 350		9520	T 0.3	3.4	carbonate qtz (? silic carb)	red and brown glw + silic. carbonate	1	x	4	11
	IVV 351		9560	R 0.4 near sub o/c	3.4	carbonate	brown & pink carbonated glw	x	5	2	x
	IVV 352		9600	R 0.3	3.4	minor carbonate	brown alt. glw ± weath qtz	x	4	6	x
	IVV 353		9640	R 0.4	3.4	carbonate chlorite	dk. red qtz md. greywacke	x	x	7	2
	IVV 354		9680	R 0.3	3.4	chl.	pink & red f.g. greyw.	x	x	5	3
	IVV 355		9720	R 0.4	3.4	tr. carbonate minor chl. Fe stained vein qtz	pink siltst	x	x	8	2
	IVV 356		9760	R 0.4	3.4	vein qtz, tr. haem.	red f.g glw	x	x	12	2
	IVV 357		9800	R 0.4	3.4	chloritic (strong)	deep red f.g. greyw.	x	x	3	2
	IVV 358		9840	R 0.2	3.4	"	pink and red siltst.	x	x	3	1
	IVV 359		9880	R 0.2	3.4	" (strong) slightly haematitic + qtz (vns)	deep red + limonite br. siltstone	x	x	2	2
	IVV 360		9920	R 0.2	3.4	chlorite trace carbonate	deep red siltst.	x	x	1	3
	IVV 361		9960	R 0.1	3.4	minor carbonate	red, pink, brown siltst.	x	2	5	4
	IVV 362		10000	R sub o/c	3.4	trace carbonate	pink, dk red siltstone	x 1	29	11	2
	IVV 363		10040	R 0.1	3.4	—	pink & brown f.g. glw.	x	x	6	2
	IVV 364		10080	R 0.1	3.4	—	red brown f.g. glw	x	x	5	1
	IVV 365		10120	R 0.1	3.4	—	pink & brown qtz vnd. siltst	x	x	11	3
	IVV 366		10160	R < 0.1	3.4	— END 12/8/91	pink siltst.	x	x	6	1
	IVV 367		10200	R 0.2	3.4	Qtz veins chlorite	Qtz veined dk red siltst	x	x	9	2
	IVV 368	10960	10200	R 0.2	3.4	some qtz vns.	Grey, brown ch. siltst.	x	x	12	1
12/8/91	IVV 369		10160	R 0.1	3.4	—	Purple siltst.	x	x	x	2
13/8/91	IVV 370		10120	T 0.5 (deb. cover)	3.4	tr. carbonate chlorite	Dark red siltstone.	x	11	12	1
	IVV 371		10080	T 0.1 / R 0.3	3.4	minor carbonate white vein qtz	Pink & brown greywacke	x	x	3	1
	IVV 372		10040	R 0.3	3.4	chlorite	Dark red & purplish f.g. greyw.	x	x	x	1
	IVV 373		10000	R 0.2	3.4	—	Dk. red brown greywacke	x	x	1	2
	IVV 374		9960	R 0.3	3.4	small haem. chips	Pink & brown siltstone	x	x	x	1
	IVV 375		9920	R 0.2	3.4	abund. fine carb. chlorite	Dk. red. siltstone	x	x	x	3

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 376	10960E	9880N	R 0.3	3.4	haem. ex chl. moderate carbonate	dk red, fract. f.g. greyw.	x	x	2	1
IVV 377	10960	9840	R 0.3	3.4	tr. carb.	pink, brown, grey siltst.	x	x	x	1
IVV 378		9800	R 0.3	3.4	minor vn. qtz	brown glw.	1	x	2	2
IVV 379		9760	R 0.1	3.4	"	dk red f.g. greywacke	1	2	6	4
IVV 380		9720	R 0.4	3.4	abundant carbonate chlorite minor qtz	dk red & red-brown siltst. & greywacke	1	2	39	3
IVV 381		9680	R 0.3	3.4	green alt. sed-silic. (silic. talc?) ?+ qfp.	green silic. alt. sed + qfp red f.g. glw	x	x	1	1
IVV 382		9640	R 0.2	3.4	talcose m. qtz	dk red brown f.g. glw	x	x	2	2
IVV 383		9600	R 0.2	3.4	weakly talcose abundant fine carb. small vein qtz	red siltst.	x	x	3	5
IVV 384		9560	T 0.3/R 0.3	3.4	—	kaolinised q.f.p.	1	x	1	3
IVV 385		9520	T 1.0	3.4	tr. haem. abund. carbonate	dk. red f.g. glw	1	x	2	4
IVV 386		9480	T 1.0	3.4	abund. carbonate	brown carbonated glw	1	x	2	2
IVV 387		9440	R 0.2	3.4	intensely carbonated strongly talcose	talc-carb. + carb. red glw.	x	x	x	1
IVV 388		9400	T 0.7	3.4	strongly carbonated weakly talcose silic. carb.	carbonated brown glw	x	x	4	4
IVV 389		9360	T 0.7	3.4	green alteration no $CO_3^=$, no talc	silic. green alt. sed.	1	x	3	1
IVV 390		9320	T 1.4	3.4	intense carbonate altn. abund. qtz	carbonated glw + ? qfp.	x	x	3	4
IVV 391		9280	T 1.2	3.4	haem. chips	brown carb. greywacke	x	x	3	4
IVV 392		9240	T 1.5	3.4	qtz vns.	kaolin. qtz veined glw	1	x	4	4
IVV 393		9200	T 1.4	3.4	strongly carbonated qtz (? silic. carb.) haematite	carbon. glw + ? q.f.p.	x	x	4	3
IVV 394		9160	T 1.4	3.4	strongly carbonated	weath., kaol., carbonated q.f.p.	1	x	4	4
IVV 395		9120	T 1.5	3.4	strongly carbonated limonite colours chlorite?	carb. q.f.p. chl. + greywacke	1	x	2	6
IVV 396		9080	T 1.5	3.4	strongly carbonated	kaolinised q.f.p.	1	x	8	5
IVV 397		9040	T 1.6	3.4	minor carbonated.	kaolin. q.f.p.	1	x	7	5
IVV 398		9000	T ~3.0.	5.2	—	q.f.p.	1	x	14	5
IVV 399	10960E	9000	Haematite granule overlying q.f.p. at 3.5m			GRANULE SAMPLE	1	x	12	20
IVV 400	11040E	9000	T 1.8	5.2	—	q.f.p.	2	x	6	3
IVV 401		9040	T est. 2.5	3.4	abundant carbonate	kaolin-silic ? greywacke + sec. silica	2	x	9	25
IVV 402		9080	T est. 2.5	3.4	" + talcose	silic talc-carb	1	x	8	5

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 403	110140E	9120N	T 2.0	3.4	talc + clay	talcose br. clay (alt. sed.)	1	x	6	6
IVV 404		9160	T 1.6	3.4	Fe ox. ex chlorite END 13/8/91	brown weath. q.f.p.	1	x	4	2
IVV 405		9200	T 1.8	3.4	Talc minor carbonate	lt. brown alt. gl/weathe	1	x	2	3
IVV 406		9240	T 1.6	3.4	—	q.f.p.	1	x	8	3
IVV 407		9280	T 1.6	3.4	? chl	dk red brown fract. gl/w	1	x	2	4
IVV 408		9320	T 2.0	3.4	—	lt. pink, knot f.g. gl/w	x	x	2	4
IVV 409		9360	T 1.8	3.4	talcose vn. qtz	pink talcose siltst. + vn qtz + ? q.f.p.	x	x	5	2
IVV 410		9400	T 2.0	3.4	strongly talcose	red gl/w + white talc	1	x	5	8
IVV 411		9440	T 0.7	3.4	slightly talcose vn. qtz	q.f.p. + minor red gl/w	1	x	1	2
IVV 412		9480	R 1.0	3.4	chl.	dk. red greyw.	1	x	6	5
IVV 413		9520	R 1.4	3.4	—	q.f.p.	1	x	5	12
IVV 414		9560	R 1.4	3.4	—	q.f.p. + minor red gl/w	1	x	6	7
IVV 415		9600	1.5	3.4	intense carbonate Fe ox stained vn. qtz.	limonite yellow - brown carb. + q.f.p.	2	x	1	4
IVV 416		9640	R 1.2	3.4	strongly talcose	q.f.p + alt. talcose gl/w	1	x	2	2
IVV 417		9680	R 0.5	3.4	weakly talcose chl.	dk red gl/w	1	x	11	2
IVV 418		9720	R 0.5	3.4	chl.	bright red siltst.	x	x	13	3
IVV 419		9760	R 0.2	3.4	weakly chl.	dk. red. f.g. gl/w	x	x	5	1
IVV 420		9800	R 0.3	3.4	strongly carb. chl.	as above + brown carb. gl/w	x	x	4	x
IVV 421		9840	R 0.3	3.4	chl. talcose	red f.g. gl/w + green weath. gl/w (talcose)	x	x	6	1
IVV 422		9880	R 0.2	3.4	chl. weakly carbonated.	dk. red. siltst.	x	x	1	2
IVV 423		9920	R 0.2	3.4	chl.	"	x	x	1	2
IVV 424		9960	R 0.2	3.4	chl. moderately carbonated	dk. red + br. carbon. siltst.	x	x	3	1
IVV 425		10000	R 0.2	3.4	strongly carbonated	red siltst. + brown carbon siltst.	x	x	2	2
IVV 426		10040	R 0.3	3.4	talc abund. haem.	talcose red siltst. + haem	x	x	8	1
IVV 427		10080	R 0.2	3.4	— vn. qtz	brown, pink siltstone	x	x	6	2
IVV 428		10120	R 0.2	3.4	— vn. qtz	"	x	x	x	2
IVV 429		10160	R 0.2	3.4	chl. abund. vn. qtz	qtz veined red siltst.	x	x	25	1

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 430	11040E	10200N	R 0.2	3.4	minor vn. qtz	lt. brown f.g. greyw.	x	x	15	1
IVV 431	11120E	10200N	R 0.2	3.4	chl.	red f.g. glw	x	x	8	3
IVV 432		10160	R 0.2	3.4	chl.	dk red f.g. glw	x	x	3	3
IVV 433		10120	R 0.2	3.4	— sl. talcose	mott. red siltstone	x	x	6	1
IVV 434		10080	R 0.3	3.4	—	mott. brown greyw.	x	x	2	2
IVV 435		10040	R 0.3	3.4	sl. talcose	bright pink-purple siltst.	x	x	6	2
IVV 436		10000	R 0.2	3.4	chl.	bright red siltst.	x	x	4	2
IVV 437		9960	R 0.2	3.4	chl. tr. white carbonate	dk red greyw.	x	x	1	1
IVV 438		9920	R 0.3	3.4	chl. abund. white carb	dk red greyw.	x	x	x	1
IVV 439		9880	R 0.5	3.4	chl.	dk red greyw and siltstone	x	x	3	1
IVV 440	END 14/8/91	9840	R 0.3	3.4	abundant carb. chl.	red greyw and brown carb. glw	x	x	2	1
IVV 441		9800	R 0.3	3.4	minor carbonate chl.	dk red siltst. + silic. carb.	x	x	5	4
IVV 442		9760	R 0.2	3.4	? —	dk red slt + br. alt. glw (kaolinite?)	x	x	3	1
IVV 443		9720	R 0.1	3.4	common fine white carbonate, minor qtz	dk red siltst.	x	x	5	2
IVV 444		9680	R 0.2	3.4	—	q.f.p.	1	x	9	2
IVV 445		9640	T 1.8	3.4	talc-carbonate sheared qtz	talcose white-brown glw	1	x	5	1
IVV 446		9600	T 1.6	3.4	very talcose + silic. carbonate	brown alt. greyw.	1	x	3	4
IVV 447		9560	T 1.4	3.4	abundant carbonate Fe stained qtz	lt. br. carb. sed. + q.f.p.	1	x	2	2
IVV 448		9520	T 1.4	3.4	talcose abund. carbonate Fe stained blue qtz	br. talc - carb. rock	1	x	5	5
IVV 449		9480	T 0.8 wash	3.4	abundant white-yellow carbonate	limonite br. alt. glw + q.f.p.	1	x	2	7
IVV 450		9440	~~T 0.2~~ ?R 0.7	3.4	talcose vein qtz	brown alt. glw	2	x	6	2
IVV 451		9400	T 1.5	3.4	slightly talcose silic? talc.	lemon. brown alt. glw.	1	x	4	10
IVV 452		9360	T 1.5	3.4	chl.	dk. red glw.	2	x	3	7
IVV 453		9320	T 1.6	3.4	talc dominant rock.	brownish white alt. glw.	x	x	5	2
IVV 454		9280	T 1.6	3.4	talc-carbonate rock	brownish white alt. glw.	x	x	4	6
IVV 455		9240	T 1.7	3.4	minor talc; chl. limonite stained white carbonate	q.f.p (+ alt sed?)	x	x	7	2
IVV 456		9200	T 1.7	3.4	chl. abundant carb. talcose	q.f.p	1	x	3	4

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 457	11120E	9160N	T 1.7	3.4	abund talc, mod. $CO_3^=$, minor haem. vein qtz.	talc-carb. rock	1	x	2	10
IVV 458		9120	T 1.7? (→3.4?)	3.4	(contaminated by Fe rich bioclites).	(granite?) q.f.p. kaolin.	1	x	8	7
IVV 459		9080	T 3.8	5.2	strong weathering masks situation. haem ex chl.	limonitic pdr. + kaolin + grey chert.	x	x	6	8
IVV 460		9040	T ~4.0m (caving)	5.2	talc carbonate qtz + Fe ox.	part. silic. talc-carb. rock	1	x	4	4
IVV 461		9000	T ~4.0 (caving)	5.2	slightly talcose carbonate rich	silic. carb. rock	5 7	x	9	7
IVV 462	11200E	9000	T ~2.5-3.0 bad caving	5.2	slightly talcose ? silic. carb. ?	hard white silic. ? carb.	1	x	4	2
IVV 463		9040	T 1.8	7.0	talc-carbonate	talc + green + yellow chert after carbonate	1	x	7	13
IVV 464	CRANBROOK ALLUVIAL WORKINGS	9080	T 1.7	7.0	slightly talcose chloritic qtz	dk red f.g. sandy glw	1	x	4	4
IVV 465		9120	T 2.0	5.2	chl. some haem.	dk red glw + silic. carb.	1	x	9	11
IVV 466		9160	T 2.5	3.4	abund carb. chl.	limon. brown alt. greyw.	1	x	2	11
IVV 467		9200	T 1.8	3.4	talc tr MnO_2 tr haem.	brown alt greywacke	1	x	2	5
IVV 468		9240	T 1.7	3.4	talc abund carbonate	" bl. siliq.	x	x	4	8
IVV 469		9280	T 1.6	3.4	mod. carbonate	red-brown + white silic. glw.	1	x	2	5
IVV 470		9320	T 1.7	3.4	abund. carb. chl.	dk red chl. glw.	x	x	4	4
IVV 471		9360	T 1.5	3.4	tr. carb. chl. qtz	dk red. chl. glw.	1	x	1	8
IVV 472		9400	T 1.7	3.4	vn. qtz	brown, weath glw	x	x	6	5
IVV 473		9440	T 1.6	3.4	abund. carb.	brown glw + ? q.f.p.	1	x	4	3
IVV 474		9480	T 1.5	3.4	tr. carb. chl.	q.f.p	1	x	6	6
IVV 475		9520	T 0.3	3.4	intensely carbonated qtz	dom. white carb. glw + br. glw	1	x	4	6
IVV 476		9560	T 0.5	3.4	tr. carb.	grey silt + some brown glw	x	x	4	6
IVV 477	END 15/8/91.	9600	R 0.4	3.4	intense carbonation chl.	red + brown greyw.	1	x	6	4
IVV 478		9640	R 0.3	3.4	abund. carbonate	br. + white weathering glw	1	x	5	3
IVV 479		9680	R 1.6	3.4	ccc qtz vn	g.f.p.	x	x	2	2
IVV 480		9720	R 0.3	3.4	chl.	red glw + white kaolin. glw	x	x	5	2
IVV 481		9760	R 0.3	3.4	"	"	x	x	x	2
IVV 482		9800	R 0.3	3.4	"	red brown f.g. greyw.	x	x	x	2
IVV 483		9840	R 0.2	3.4	" + qtz haem veins	red and brown glw	x	x	2	2

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 484	11200E	9880N	R 0.1	3.4	chlorite	dk red f.g. greywacke	x	x	x	1
IVV 485		9920N	R 0.1	3.4	"	"	x	x	x	1
IVV 486		9960N	R 0.1	3.4	str. carbonated chloritic	dk. red siltstone	x	x	2	1
IVV 487		10000N	R 0.1	3.4	"	" + white carb. siltst.	x 1	11	5	1
IVV 488		10040N	R 0.1	3.4	—	red & brown siltst.	x	x	3	2
IVV 489		10080N	R 0.1	3.4	qtz-haem vns (sheared)	dk brown greywacke	x	x	3	2
IVV 490		10120N	R 0.2	3.4	chlorite	dk red-brown siltstone	x	x	1	2
IVV 491		10160N	R 0.2	3.4	abund. brown carbon. chl.	pink + brown carbonated siltst.	x	x	2	1
IVV 492		10200N	R 0.4	3.4	abund white + br. carbonate	dk red + brown carb. siltst.	x	x	4	1
IVV 493	11280E	10200N	R 0.3	3.4	abund. carbonate	brown carbon. greywacke	x	x	4	1
IVV 494		10160N	R 0.3	3.4	chl.	red brown f.g. greyw.	x	x	4	1
IVV 495		10120	R 0.2	3.4	abund. carbonate	red brown & brown carb. greyw.	x	x	7	1
IVV 496		10080	R o/c	3.4	qtz-haem. veins.	red-brown greyw.	x	x	8	2
IVV 497		10040	R 0.2	3.4	chl. minr carb.	red-brown greyw.	x	x	6	2
IVV 498		10000	R 0.2	3.4	chl.	"	x	x	3	1
IVV 499		9960	R 0.1	3.4	chl. tr. haem.	"	x	x	7	3
IVV 500		9920	R 0.2	3.4	chl. fract. qtz. vns.	" + white weath glw	2	x	10	3
IVV 501		9880	R 1.5	3.4	chlorite haem. vns. qtz-haem.	dk. red. chl. greyw.	x	x	9	4
IVV 502		9840	R 1.5	3.0 qtz vn.	chl. — haem vn. qtz (? contam ? gravel)	red brown glw	1	x	8	5
IVV 503		9800	T 3.0 thick gravel	3.4	chl. (weathered rock).	red glw. extens. kaolin	x	x	10	3
IVV 504		9760	T 3.0	5.2	chl. abund. carbonate	dk. red f.g. greyw.	x	x	5	1
IVV 505		9720	T 3.0	5.2	green talc.	red brown glw silic. + talc	x	x	5	3
IVV 506		9680	T 3.2	5.2	haem. ex chlorite thin vn. qtz.	dk red alt. glw	1	x	12	4
IVV 507		9640	T 3.2	5.2	qtz. vns	pink greyw.	1	x	4	2
IVV 508		9600	T 3.3	5.2	talc (+ silic. talc)	"	1	x	6	6
IVV 509		9560	T 4.8	7.0	talc clay	pink sandy glw	1	x	8	3
IVV 510		9520	T 3.4	7.0	—	red brown sandy glw	x	x	8	3

holes	metres
3/c 34	119.2
4/c 36	133.4
c 37	143.0
b/c 38	157.6

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 511	11280E	9480N	T ~4.5	7.0	chl. qtz veins carbonate chips	qtz rnd. pink glw	1	x	6	5
IVV 512		9440N	T ~5.5	7.0	abund. green talc Featured qtz vn	pink alt. siltstone	x 1	12	16	2
END IVV 513		9400N	T 4.5	7.0	tr. green talc chl.	red f.g. sandy glw	1	x	9	2
IVV 514		9360N	T 3.0	5.2	abund. carbonate	red-brown siltst.	x	x	5	3
IVV 515		9320N	T 1.5	5.2	tr. carb. minor glw vn. qtz	"	x	x	11	2
IVV 516		9280N	T 2.0	5.2	talc chl. abund. Featured vn qtz	dk. red. glw	x	x	4	4
IVV 517		9240N	T 1.8	7.0	chl. Featured qtz (lt. silic carb)	"	x	x	2	1
IVV 518		9200N	T 1.5	5.2	very chl. talc, carbonate silic. carb.	very dk red glw	x	x	5	1
IVV 519		9160N	T 1.8	5.2	abund. carbonate talc (mainly silic.)	lt. br./white alt glw + ? qtz	x	x	6	3
IVV 520		9120N	T/R? 1.8	5.2	? silic. carb	kaol. q.f.p.	x	x	8	3
IVV 521		9080N	T/R? 3.5	7.0	? silic. carb. Featured qtz	"	x	x	6	2
IVV 522		9040N	T 1.6 kaolinites	7.0	chl.	kaol. pink glw	x	x	6	2
IVV 523		9000N	T 1.7 kaolinites	5.2	lt. chl. → haem.	red glw + q.f.p.	x	x	5	7
IVV 524	11360E	9000N (qtz rubble)	R 1.8 rubble	5.2	—	kaolin q.f.p.	x	x	10	2
IVV 525		9040N (carries rounded pebbles)	R +1.0 rubble	3.4	chl.	chl. glw + q.f.p.	x	x	10	7
IVV 526		9080N (MILLKORERA CAT)	R +1.0 rubble	3.4	—	br. siltst. + q.f.p.	x	x	13	7
IVV 527		9120N	R 0.5	3.4	chl.	q.f.p.	x	x	7	19
IVV 528		9160N	R 0.7	3.4	—	kaolin. q.f.p.	x	x	7	6
IVV 529		9200N	T 3.0.	3.0	Too hard to drill - sample of bottom granule (ex q.f.p.)	sheared silic ? q.f.p.	1	x	19	10
IVV 530		9240N	T 1.4	3.4	chl.	ch. red glw + q.f.p.	x	x	6	5
IVV 531		9280N	T 1.4	3.4	chl.	ch. q.f.p.	2	x	9	3
IVV 532		9320N	T 0.8	3.4	chlorite carbonate qtz (from ? q.f.p)	purple f.g. greyw.	x	x	10	3
IVV 533		9360N	T 0.8	3.4	chl. tr. carb. qtz vns (+ from ? q.f.p)	green/grey siltst.	x	x	4	3
IVV 534		9400N	T 0.3	3.4	abund. carb. abund small qtz + qtz-h.	ch. purple glw	1	x	3	3
IVV 535		9440N	T 0.6	3.4	minor carb, talc some vn. qtz	purple glw	1	x	8	3
IVV 536		9480N	T 0.6	3.4	abundant carbonate chlorite haem. ex chlorite	red, pink & white kaolin glw	x	x	4	5
IVV 537		9520N	1.4	3.4	green lt. silic. talc abund qtz carbonate	alt. siltst (talc-carb rock)	x	x	4	5

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 538	11360E	9560	T 1.6	3.4	slightly talcose & carbonated. chlorite	red f.g. glw.	x	x	8	4
IVV 539		9600	T 1.8	5.2	—	q.f.p.	x	x	5	5
IVV 540		RIG BREAKDOWN 5pm. 9640	T 1.6	16-8-91 RESTART 18-8-91 3.4	carbonate chl.	red-brown f.g glw.	1	x	7	5
IVV 541		9680	T 1.7	3.4	carbonate, talc. chl. qtz vns, haem.	dk red siltstone + qtz vns.	x	x	9	6
IVV 542		9720	T 1.6 + clay zone	5.2	—	kaolin. q.f.p.	1	x	5	6
IVV 543		9760	T 1.6 + clay zone	3.4	carb. tr. talc.	red f.g. glw	x	x	4	5
IVV 544		9800	T 5.4 thick clay.	7.0	strongly talcose qtz vn.	dk red glw + talcose glw	x	x	5	4
IVV 545		9840	T 1.6	3.4	—	kaolin. red glw	x	x	3	3
IVV 546		9880	T 1.8	5.2	tr. carbonate minn talc. + strongly weathered.	"	x	x	8	7
IVV 547		9920	T 1.7	5.2	chl.	kaolin dk red glw + tr. qtz	x	x	3	7
IVV 548		9960	T 1.8	5.2	abund. carb.	q.f.p. + tr. red glw.	x	x	9	3
IVV 549		10000	T 1.8	5.2	tr. talc vein qtz	kaolin red-brown glw	x	x	6	10
IVV 550		10040	T 2.5	5.2	abund. talc minn qtz	pink abr. glw.	1	x	7	7
IVV 551		10080	R 1.3	3.4	talc carbonate Fe stained qtz	red-brown glw	1	x	6	3
IVV 552		10120	R 0.3	3.4	abund. talc qtz (minn qtz vn)	dk. red-brown glw + talc rock	x	x	5	1
IVV 553	linear xing dykes at shallow angle sub vertical strike 340°N	10160	R 0.4	3.4	abund. talc minn qtz	pink talcose siltstone	x	x	10	1
IVV 554		10200	R 0.2	3.4	moderately chloritic	bright red siltst.	x	x	7	3
IVV 555	11440E	10200	R 0.1	3.4	str. chloritic abundant talc " carbonate	red alt. siltst + talc.	1	x	16	1
IVV 556		10160	R 0.3	3.4	talc abund. minn qtz.	brown talc clay (alt glw)	2	x	15	3
IVV 557		10120	T 1.5	5.2	—	q.f.p.	1	x	5	1
IVV 558		10080	T 1.6	3.4	talc abund. carbonate	red-brown siltst. + talc	1	x	10	6
IVV 559		10040	T 1.8	7.0	abund. white talc	q.f.p	x	x	9	4
*** IVV 560		10000	T ~2.0	5.2	talc grey colour Mn, Fe, Pb?	white & grey TALC	x	x	6	11
IVV 561		9960	T ~2.5	5.2	trace talc chl.	pk. kaolin. red glw	1	x	6	6
IVV 562		9920	T ~3.0	5.2	ox chlorite qtz-haem.	dk red-brown glw	1	x	9	9
IVV 563		9880	T 1.7	3.4	tr qtz-haem.	q.f.p.	1	x	15	7
IVV 564		9840	T 1.7	3.4	chlorite	red + brown ox. f.g. chl. glw	1	x	9	5

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 565	11440	9800	T 1.7	5.2	chlorite trace carbonate	red chl. glw + q.f.p	1	x	16	5
IVV 566		9760	T 1.8	5.2	chloritic qtz vns (rare)	pinks kaolinized glw (sheared)	2	x	9	4
IVV 567		9720	T 1.8	3.4	chl. rare qtz vns	red glw, pt. kaolin.	1	x	9	4
IVV 568		9680	T 1.8	5.2	chlorite carbonate	"	2	x	20	6
IVV 569		9640	T 2.0	5.2	chl. matrix	q.f.p.	1	x	9	5
IVV 570		9600	T 1.8	5.2	carbonate vn qtz (minor)	kaolin. q.f.p.	2	x	6	6
IVV 571		9560	T 1.8	3.4	chl. chips haem. haem + qtz may be ub hole contamin.	red glw.	1	x	10	8
IVV 572		9520	T 1.8	4.5 too hard to drill	abund. carbonate	sh. alt. q.f.p.	1	x	6	2
IVV 573		9480	T 2.0	5.2	chlorite talc	pinkish pink chl. glw.	2	x	8	5
IVV 574		9440	T ~2.0	5.2	chl.	qtz vnd. pink glw	x	x	7	3
IVV 575		9400	T ~2.0 kaolinized material	5.2	green talc chlorite	red alt. glw + green talc	x	x	8	3
IVV 576		9360	T 4.0	5.2	haem stringers in glw minor talc, chlorite tr. carbonate	bright red alt. glw	x	x	7	2
IVV 577		9320	T 4.5 qtz gravel	5.2	tr. carbonate silic talc? kaolin?	purplish glw sheared.	1	x	11	3
IVV 578		9280	T 4.5 qtz gravel numbers	5.2	abund talc minor qtz vns.	minor red glw domin. flaggy talc	x	x	7	4
IVV 579		9240	T +2.0	5.2	white carb. abundant green silic? talc	brown glw + dominant silic ?talc-carb.	x	x	7	1
IVV 580		9200	R 0.3	5.2	chl. matrix	q.f.p	1	x	10	4
IVV 581		9160	R 0.6 rubble	3.4	qtz vns with rare haem.	q.f.p. sheared.	1	x	4	2
IVV 582		9120	R 0.5 rubble	3.4		q.f.p.	x	x	10	2
IVV 583		9080	R sub o/c	3.4	qtz veins	pale brown, sheared, strongly sheared glw	1	x	5	2
IVV 584		9040	R sub o/c	1.8	strongly chloritic rare thin qtz vns	dk red glw	1	x	19	5
201.1a 4th hole IVV 585		9000 ENTS 18/6/91	R 1.0 rubble	3.4	chloritic abund qtz (with chlorite)	dk red glw	1	x	14	3
start 19/6/91 IVV 586	11520E	9000N	R 0.3 rubble	1.8	chloritic qtz (some silic. carb.?)	dk red glw	1	x	34	3
IVV 587		9040N	R 0.8 too hard to drill	1.2	chloritic qtz	white, sheared & silicified rock (? q.f.p)	2 2	14	78	4
IVV 588		9080N	T 1.0 in drainage channel. Sub-angular gravel covering.	3.4	fine Fe stained fractures	sheared, pk. silic. glw	x	x	15	2
IVV 589		9120N	T +1.0 in drainage depression.	3.4 Covering gravels	chlorite minor thin qtz vns.	purplish f.g. glw	1	x	10	3
IVV 590		9160N	R o/c next to silcrete o/c	1.1	tr Fe ox ex chl & sec. ox. on joints	sh. silicified ? q.f.p.	1	x	17	2
IVV 591		9200N	R 0.5 gravel.	2.8	trace pink colouring	sh. silic q.f.p.	1	x	7	4

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
Broken vacuum bag. 9.47.	IVV 592	11520E	9240	T 1.5 cobble bad caving	3.4	chloritic weakly talcose	red, alt. q.f.p.	1	x	8	3
	IVV 593		9280	T 1.5 caving	5.4	carbonate chloritic tiny qtz grains	dk red glw	1	x	2	4
	IVV 594		9320	T ~1.5 caving	<.2	strongly chloritic carbonated sheared, tiny qtz vlts.	dk red alt. glw	1	x	4	2
	IVV 595		9360	T ~0.5	3.4	strongly chloritic some vn. qtz	purple, sheared glw	1	x	4	5
	IVV 596		9400	T ~0.6	3.4	strongly chloritic green silic. ?talc.	red & purple sheared glw	1	x	4	6
	IVV 597		9440	T 1.8	3.4	"	"	1	x	8	4
	IVV 598		9480	T 1.8	<.2	chlorite qtz–chl. veins	qtz veined red glw.	x	x	5	3
	IVV 599		9520	T 2.5	<.2	green talc (+ 40%) chips haematitic	alt. glw talc	1	x	3	2
	IVV 600		9560	T 2.0	<.2	green talc abund qtz (vn+?qtf)	alt. glw (+?q f p)	1	x	4	3
	IVV 601		9600	T 2.3	3.4	qtz–haem. vns	alt q.f.p.	1	x	8	8
	IVV 602		9640	T 2.9	3.4	—	q.f.p.	1	x	10	7
	NO SAMPLE ABANDONED HOLE		9680	T 5.2	5.4	Hole in gravel & abandoned on hitting qtz boulder 5.4m					
	IVV 603		9682	T ~5.5	8.8	minor carbonate talc.	red glw white talc (+talc?)	x	x	5	6
	IVV 604		9720	T ~7.0	10.6	chl. (ox→brown) white talc deeply weathered.	alt. pink glw	x	x	3	1
* * *	IVV 605		9760	T ~6.0	7.0	strongly haematitic (ex chlorite) abund. carbonate	brown alt glw	1	x	33	4
deep granitic kaolinised & silicified carb (bx) → talc/carb.	IVV 606		9800	T ~7.0	10.6	talc carbonate (silicified at bottom end)	massive green and white talc–carbonate	3	x	2	3
	IVV 607		9840	T <.2	7.0	silic. talc? no carbonate reaction haem. ex chlorite	chl. greywacke + brown silic. talc–carb	x	x	4	4
4.22p.	IVV 608		9880	T <.2 deep kaolinisation	10.6	no carb. reaction	alt glw (talc rock) pt. kaolinised.	1	x	4	2
	IVV 609		9920	T 4.6 deep kaolinisation	8.8	no $CO_3^=$ reaction talcose	dk brown alt. glw pt. kaolinised	x	x	3	3
	IVV 610		9960	T 4.0	7.0	chloritic minor white talc	purple f.g. sandy glw	x	x	6	3
	IVV 611		10000	T 4.0	7.0	chloritic	pt. kaolin. dk red glw	5 5	x	4	2
	IVV 612		10040	T 4.6	7.0	chl.	pink greyw.	1	x	2	2
29 holes 145.8m	IVV 613		10080	T 3.5 END	<.2 19.8m	limonite brown (ex carbonate?)	grey/brown chert qtz ?talc/carb.	x	x	5	5
	IVV 614		10120 10122	(Alluvium – (1.6) – hard brown chert / haem in gravel) T 3.6	7.0	silicea	brown chert + q f p.	x	x	2	5
sudden shallowing of basement	IVV 615		10160	R 0.4	3.4	chlorite white talc abund. carbonate	dk red, sheared glw	2	x	3	2
	IVV 616		10200	R 0.5	3.4	talc, chloritic abund. carbonate	dk red, alt. glw	1	x	2	2
	IVV 617	10000E	10080	R scree	1.6	chl.	red abr. f.g. greyw.	2	x	1	1

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 618	10000E	10120N	R 0.3	3.4	chl. some talc.	soft, weath pink glw	x	x	1	1
IVV 619		10160N	R 0.1	3.4	chl. abundant carbonate	red/brown siltstone	1	x	1	1
IVV 620		10200N	R 0.4	3.4	abund qtz-chl. vns " carbonate	ch. red abr. fractured glw	x	x	1	2
IVV 621	9920E	10200N	R 0.3	3.4	chl. abund. carbonate	pt. kaolin pink siltst.	x	x	2	1
IVV 622		10160N	R/T 0.5 shallow creek	3.4	chl. abund carbonate minor haem.	weath. red glw.	x	x	6	8
IVV 623		10120N	R 0.3	3.4	chlorite abund qtz-haem. vns.	dk red, qtz-haem veined glw	x	x	2	2
IVV 624		10080N	R/T local soil + rubble 0.5	3.4	chlorite qtz vns with chl on margins, tr. carb	dk red, qtz veined glw	x	x	2	1
IVV 625		10040N	R 0.4	3.4	chl. as above minor br. silic. carb.	"	x	x	4	1
IVV 626		10000N	R 0.4	3.4	chl. minor carb. & talc qtz-haem. vnlets.	pink siltst	x	x	1	1
IVV 627		9960N	R 0.2	3.4	chlorite talc (dominant)	alt, pink siltst.	x	x	4	x
IVV 628		9920N	T 0.8	3.4	chlorite fine carbonate	brght red f.g. greywacke	x	x	5	2
IVV 629		9880N	T 1.8	5.2	chl. brown silic carb. very talcose	pink alt siltstone	x	x	4	2
IVV 630		9840N	T 0.4	3.4	chl. vn. qtz with chl. selvage minor carb.	chl. alt. glw + qfp.	x	x	11	3
IVV 631		9800N	T 1.0	3.4	sl. talcose silic. rock (?carb)? qtz) chlorite	pink glw	x	x	11	2
IVV 632		9760N	R 0.4 qtz sub o/c	3.4	talcose chloritic.	dk red, pink & brown siltst.	1	x	4	1
IVV 633		9720N	R 0.3	3.4	abund brown silic carbonate chl. glw with haem (ex chl?)	red alt glw + br. silic. carb	x	x	5	1
IVV 634		9680N	R 0.4	3.4	tr. carbonate haem. ex chlorite common.	dk red chl. siltst/glw.	x	x	5	1
IVV 635		9640N	T 1.6	3.4	abund carbonate br. silic ?carb.	"	x	x	2	6
IVV 636		9600N	T 1.4	3.4	silic. glw v. chloritic	dk red glw	x	x	1	3
IVV 637		9560N	R 0.5	3.4	very chloritic some brown silic ?carb.	"	1	x	4	3
IVV 638		9520N	R 0.4	3.4	very chloritic	"	1	x	2	2
IVV 639		9480N	R 0.4	3.4	very chloritic haem ex chl. white carb. chips	"	3	x	3	2
IVV 640		9440N	T 0.5	3.4	abund. white & lt. br. carbonate chlorite	"	x	x	27	5
xxx IVV 641		9400N	R 0.5	7.0	rusty brown MnO_2 fragments very talcose	limonite bearing talc rock	1 1	12	1400	2.25%
IVV 642		9360N	R 0.7	7.0	white & lt. br. talc (alt. glw)	"	1	x	16	75
IVV 643		9320N	R 0.4	5.2	white talc + alt. clayey glw	talcose qfp.	x	x	21	114
IVV [illegible]		9280N	T + 2.0	7.0	limonite colour tr. talc	limonitic weath	1	x	13	9

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 645	9920E	9240N	T +2.0	5.2	limonitic, goethitic patches carbonate	q f p ?	1	x	13	14
IVV 646		9200	T +2.0?	7.0	sl. talcose	kaolinized q.f.p.	x	x	5	2
IVV 647		9160	T 4.0	8.8	"	"	x	x	12	31
IVV 648		9120	T +4.0	5.2	—	" c.g.	x	x	25	36
IVV 649		9080	T ~3.8	7.0	some qtz-chl. vns (porphyritic)	" f.g.	x	x	6	6
IVV 650		9040	T ~3.0	5.2	silica.	tr. v. hard, brittle silic. (sheared?) siltst.	x	x	12	5
IVV 651		9000	T ~3.4	5.2	—	q.f.p. m.g	x	x	16	4
IVV 652	9840E	9000N	T ~3.0?	5.2	—	q f p c.g	x	x	15	8
IVV 653	3.6m flow from 1.8m.	9040N	T +3.0?	5.5 hole abandoned - qtz vein too hard.		q f p	x	x	15	6
IVV 654	3m flow +1.8	9080N	T +3.0	5.2	—	kaolin. q.f.p.	1	x	12	5
IVV 655	2m flow.	9120N	T +3.6	5.2	chl. matrix	kaolin. q.f.p.	x	x	11	8
IVV 656	1.5m flow	9160N	T 3.4	5.2	" tr. haem.	"	x	x	23	6
IVV 657	2m flow (from [illegible] weathering)	9200N	T 3.6	5.2	—	"	x	x	7	4
IVV 658		9240N	T 3.5	5.2	dominantly talc	alt. q f p.	x	x	5	4
IVV 659		9280N	T 3.6	5.2	—	kaolin q f p	1	x	6	16
IVV 660		9320N	T ~3.6	5.2	tr. chl	"	x	x	8	19
IVV 661		9360N	T 2.5	5.2	dominantly talc minor chloritic siltst.	massive talc red siltst.	x	x	21	12
IVV 662		9400N END 20/8/91	T +3.8	7.0	talcose slightly limonitic	alt. g.f.p.	x	x	110	2
IVV 663		9440N	T 1.8	3.4	talc. clay.	talcose red siltst.	x	x	5	5
IVV 664		9480N	T 0.2 ~~R 0.4~~	5.2	"	"	x	x	4	3
IVV 665		9520N	R 0.4	3.4	chl. abund. qtz veins tr. haem.	dk red glw	x	x	3	4
IVV 666		9560N	R 0.4	3.4	chl. abund. carbonate	bright red siltst/glw	x	x	12	2
IVV 667		9600N	R 0.6	3.4	chl. talcose	flaggy weath red talcose glw	x	x	4	3
IVV 668		9640N	R 0.4	3.4	chl. sl. talcose thin qtz veins	pink siltst.	x	x	1	x
IVV 669		9680N	R 0.4	3.4	chlorite minor qtz	dk. red siltst/glw	x	x	7	3
IVV 670		9720N	R 0.7	3.4	chl. abund. $CO_3^=$ tr. fine qtz.	pink siltst.	x	x	1	3
IVV 671		9760N	R 0.3	3.4	chlorite abundant $CO_3^=$ common carbonate tr	red siltst.	x	x	3	2

grit
clm
sol.
q.f.p.

7 Holes
247.1m

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 672	9840E	9800N	R 0.4	3.4	chl.	purple siltstone	x	x	1	1
IVV 673		9840	R 0.3	3.4	chl.	pink siltst. br. ? + carbonate	x	x	2	2
IVV 674		9880	R 0.3	3.4	chlorite haem ex chl.	red siltst.	x	x	6	1
IVV 675		9920	R 0.4	3.4	chl. carbonate	br. clay alt'n red carb. siltst.	x	x	1	2
IVV 676		9960	R 0.4	3.2	chl. abund qtz-haem. vein material	pink & grey siltst.	x	x	2	1
IVV 677		10000	R 0.3	3.4	chl. qtz. vns.	qtz red red pink glw	x	x	1	1
IVV 678		10040	R 0.3	3.4	chl. minr v. small qtz. vns small haem. chips	red & br. glw	x	x	1	1
IVV 679		10080	R 0.4	3.4	chl. small qtz-haem. vns. abundant $CO_3^=$	pink siltst.	x	x	x	1
IVV 680		10120	R 0.3	3.4	chl. tr. qtz	red siltst.	x	x	x	1
IVV 681		10160	R 0.4	3.4	chl.	pink siltst.	x	x	x	1
IVV 682		10200	R 0.4	3.4	chl. abund. qtz-haem. vns	"	x	x	6	1
IVV 683	9760E	10200	R 0.4	3.4	chl. v. thin qtz veinlets	purple siltst.	x	x	7	2
IVV 684		10160	R 0.4	3.4	chl. lt. green, silicif. alt rock; abund carb. vein qtz.	red siltst.	x	x	3	1
IVV 685		10120	T 1.9 creek gravels	3.4	abund qtz-chl. vns	br. smooth. siltst.	x	x	8	2
IVV 686		10080	R 0.5 fine gypsum pr. soil	3.4	brown carbonate chl.	pink siltst.	x	x	2	1
IVV 687		10040	R 0.5 faint T (0.4)	3.4	chl. abund qtz-chl ± haem. vns.	red f.g. glw	x	x	4	2
IVV 688		10000	R 0.6 faint T (0.2)	3.4	abund. carb. " qtz & qtz-haem.	red glw + qtz-haem.	x	x	3	1
IVV 689		9960	R 0.4	3.4	minr white carb. haem., qtz haem, qtz; chloritic	purple glw qtz-haem.	x	x	8	3
IVV 690		9920	R 0.3	3.4	tr. talc tr haem (ex chl?)	red siltst.	x	x	2	x
IVV 691		9880	T 1.1 (fine gravel)	3.4	abund. $CO_3^=$ qtz-ox. chl. vns	ch. pink & brown siltstone	x	x	5	2
IVV 692		9840	T 1.1	3.4	chlorite abund. $CO_3^=$ thin qtz vns (rare)	red siltst.	x	x	4	1
IVV 693		9800	T 0.9	3.4	chlorite	"	x	x	4	2
IVV 694		9760	T 1.2	3.4	chlorite minr qtz br. silic. carb.	red/brown chaneymouth glw	x	x	9	3
IVV 695		9720	T +1.8	3.4	chlorite fine qtz vns	dk red siltst	x	x	x	2
IVV 696	bonestone o/c 2m E	9680	R 0.5 fractur gravel	5.2	chlorite abund qtz-haem.	dk red glw + qtz-haem.	x	11	13	2
IVV 697		9640	T 2.0	3.4	chlorite abund. white talc carbonate	dk red f.g. glw talc	x	x	11	3
IVV 698		9600	T 2.0	3.4	chl.	red & br. greywacke	x	x	3	2

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 699	9760E	9560	T 1.6	3.4	chlorite	red siltstone	x	x	3	2
IVV 700		9520	T 2.0	3.4	chl.	lt. kaolin red siltstone	x	x	10	5
IVV 701		9480	T 1.9	3.4	abund. talc chlorite	talcose red glw.	x	x	8	8
IVV 702		9440	T 2.0	5.2	"	"	x	x	2	1
IVV 703		9400	T +2.0 + clay.	5.2	"	" + brown weath glw	x	x	112	4
IVV 704		9360	T +3.6 + clays	7.0	" MnO_2 in talc	"	x	x	29	12
IVV 705		9320	T +3.6 + clays	7.0	—	Kaolinised q.f.p. f.g.	x	x	8	1
IVV 706		9280	T ~4.0 + montmorill clays	8.8	—	Kaolinised q.f.p. f.g.	x	x	43	3
IVV 707		9240	T ~4.0 + montm. clays	8.8 to 9.0	—	"	x	x	14	5
IVV 708		9200	T +2.0.	3.4	talcose or possibly greasy clay.	Kaolin. q.f.p. or q.f.p gravel	x	x	15	6
IVV 709		9160	T ~2.0	3.4	"	"	x	x	6	4
IVV 710		9120	T ~2.0	3.4	clays weath. from feldspars	Kaolin/clay q.f.p	x	x	10	9
IVV 711		9080	T ~2.0+	3.4	"	"	x	x	13	7
IVV 712		9040	T ~2.5	3.4	—	Kaolinised f.g. q.f.p.	x	x	10	9
IVV 713		9000	T ~2.5	5.2	—	"	x	x	10	7
IVV 714	9680E	10200N	T 0.7	3.4	chl.	pink, kaolinised glw	x	x	5	2
IVV 715		10160N	T 0.2 / R 0.4	3.4	"	"	x	x	2	1
		END 28/8/91								
IVV 716		10120N	R 0.4	3.4	chl. qtz-chl. veins	pink, clayey glw	x	x	3	3
IVV 717		10080N	R 0.3	3.4	chl.	"	2	x	x	2
IVV 718		10040N	R 0.3	3.4	chl.	pink glw siltst.	3	x	5	2
IVV 719		10000N	R 0.6	3.4	"	"	x	x	1	2
IVV 720		9960 N	R 0.8	5.2	talcose	pale brown siltst.	1	x	3	3
IVV 721		9920 N	R 0.7	3.4	chlorite carbonate tr. white qtz	bright red siltstone	1	x	3	2
IVV 722		9880 N	R 0.7	3.4	chlorite	bright red and pale green siltstone	1	x	2	2
IVV 723		9840N	T 0.6 / R 0.4	3.4	chlorite some grey silic. rock hem ex chl.	br. red siltst/g-w	1	x	2	3
IVV 724		9800N	R ? 0.8	3.4	chl. qtz-chl. veins	brown, clayey grey w.	x	x	3	3
IVV 725		9760N	R 0.7	3.4	chlorite minor carbonate	red and brown g-w.	x	x	3	2

Results

53 holes: 209m

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

	Sample Number	Grid Reference Metres E	Grid Reference Metres N	Soil Type	Hole Depth	Alteration	Rock Type	Au ppb	Bi ppm	Cu ppm	Pb ppm
	IVV 726	9680E	9720	T 1.2	3.4	chlorite abund. carbonate	red grey.	x	x	5	4
	IVV 727		9680	R 0.8	3.4	chlorite	bright red + brown siltst.	x	x	5	7
	IVV 728		9640	R 0.3	3.4	chlorite trace haematite	v. bright red siltstone	x	x	2	2
	IVV 729		9600	T 1.6 clay 2-3.4	5.2	chlorite	"	x	x	4	2
	IVV 730		9560	T 1.7 clay 2.5-3.4	3.4	chl.	red siltst? (clay zone) montmorillonite	x	x	7	5
may be qfp?	IVV 731		9520	T 2.0 clay 1.5-5.2+	5.2	chl. ? talc	" mont. clay.	x	x	3	3
	IVV 732		9480	T 2.5 clay 2.5-5.2+	5.2	"	" mont. clay.	x	x	6	3
mulga	IVV 733		9440	T 3.7 clay 3.7-4.8	7.0	chl. (weak)	kaolin. pink glass + q.f.p.	x	x	17	2
"	IVV 734		9400	T 4.5 clay 4.5-6.2	7.0	chl.	kaolin q.f.p.	x	x	102	2
"	IVV 735		9360	T 2.0 no clay	5.2	—	q.f.p.	x	x	50	9
"	IVV 736		9320	T 1.6+ clay 1.6-2.5	5.2	chl.	kaolin. q.f.p.	x	x	8	6
tightly bar blade .. 11.22	IVV 737		9280	T 2.0	3.4	"	"	x	x	15	9
"	IVV 738		9240	T 2.2 clayey from 2.0	3.4	" tr. carb.	"	x	x	15	10
clearing - mulga cut for pegs (old)	IVV 739		9200	T ~2.0 clay from 1.5m	3.4	chl. (weak)	" mg.	x	x	15	10
	IVV 740		9160	T 0.5 clayey from 1.5m	3.4	—	" clayey zone	1	x	14	9
	IVV 741		9120	T ~1.5 clay layers	5.2	weakly chloritic tr. haem. minor jasper	q.f.p.	1	x	15	8
mulga	IVV 742		9080	T ~0.5 clay 2-3.5m	5.2	weakly chl.	kaolin q.f.p.	x	x	7	7
"	IVV 743		9040	T +1.5 pisolitic 1-2.5m clay	5.2	"	"	1	x	13	10
"	IVV 744		9000	T +3.0. qfp granule.	5.2	silica.	grey siltstone, silicified (sheared qfp?)	1	x	16	6
"	IVV 745	9600E	9000	T +3.0. qfp granule	5.2	small haematite chips	sheared qfp	1	x	20	9
"	IVV 746		9040	T 8.6 dark granule (with quartz)	8.8	brown gossanous iron oxide (also in overlying granule)	q.f.p.	3	x	46	16
"	IVV 747		9080	T +6.9? dark granule - hole chips	6.9	abund. carbonate haem, qtz	? q.f.p. (?boulder) ± haem. 5:2 has qtz-haem. 6.9m	3	x	23	13
"	IVV 748		9120	T 6.5 dark granule	7.0	—	q.f.p.	3	x	23	13
"	IVV 749		9160	T 4.0	5.2	chl.	kaolinised q.f.p.	1	x	8	6
"	IVV 750		9200	T 8.2	8.8	—	limonite brown q.f.p.	1	x	290	5
"	WV 751		9240	T 12.0	12.4	—	kaolin. q.f.p. ? bedrock	1	x	390	7
"	IVV 752		9280	T 10.0	10.6	—	"	x	x	58	6

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

Sample Number	Grid Reference Metres E	Grid Reference Metres N	Soil Type	Hole Depth	Alteration	Rock Type	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 753	9600	9320	T ~8.0	8.8	—	kaolin g.f.p.	3	x	210	7
IVV 754		9360	T 6.0 overlain by g.f.p. gravels	7.0	strongly chloritic	dark red greywacke	2	x	78	20
IVV 755		9400	T 4.6	7.0	chlorite minor carbonate	pt. kaolinised pink siltstone	x	x	78	6
IVV 756		9440	3.5 T END 22/8/91	5.2	chlorite	pink siltst. pt. montmorill. clay.	x	x	13	5
IVV 757		9480	T +2.5 fine gravels/grit	8.8	chl. talc (entire hole damp & clayey)	red siltstone + white ? talc clays	1	x	8	2
IVV 758		9520	T +2.5 g.f.p. gravels + clayey gravels – clays to bottom hole	10.6	chl. talc	dk. red siltst + white clay	x	x	3	1
IVV 759		9560	T +2.6 g.f.p. gravels then very clayey sediments	7.0	? talc.	pink siltst + white clay	1	x	4	3
IVV 760		9600 hornstone boulder 3.0m	T 3.5	5.2	chl. talc/montmorill.	dk red siltst white + clay	x	x	7	3
IVV 761		9640	T 1.0	1.0	haematite g.f.p.	haem./g.f.p. gravels + ? haem	1	x	11	11
IVV 762		9680	T 3.5	5.2	chl.	red f.g. g/w + white mont. clay	x	x	7	3
IVV 763		9720	R 0.4	3.4	chl. carb. silica tr haem.	red g/w + grey g.f.p. (silic. sed)	1	x	6	3
IVV 764		9760	R 0.3	3.4	abund carb. ch.	red & brown g/wacke	1	x	6	3
IVV 765		9800	R 0.3	3.4	abund. carb. strongly chloritic	dk. red g/wacke	1	x	3	3
IVV 766		9840	R 1.0	3.4	" + thin g.f.p. vns.	"	x	x	6	2
IVV 767		9880	R 0.8	3.4	abund. carb. chlorite	dk pink g/w	x	x	2	2
IVV 768		9920	T 1.6 g.f.p. gravels	3.4	tr. g.f.p. "	"	1	x	7	2
IVV 769		9960	T 1.6	5.2	chl fine haem. chips	brown & pink f.g. g/w – siltst.	x	x	3	2
IVV 770		10000	T 1.6 haem. gravels	5.2	abund. g.f.p.-haem vns. tr. talc END 23/8/91.	pink ch. g/w	1	x	2	2
IVV 771		10040	R 0.7	3.4	abund. carbonate chl.	red carbonated greywacke + brown g/w	x	x	4	3
IVV 772		10080	R 0.6	3.4	chl. abund thin g.f.p.-haem veins	red & pink f.g. greywacke	2	x	13	5
IVV 773		10120	R 0.7	3.4	abund. white carbonate chl.	brown & pink carbonated g/w	1	x	4	3
IVV 774		10160	T 0.7 g.f.p.-haem gravel.	3.4	"	pink carbonated g/w	1	x	3	4
IVV 775		10200	R 0.6	3.4	chlorite	dk red/purple siltst.	1	x	5	3
IVV 776	9520	10200	T 0.8 g.f.p.-haem-g/w gravel.	3.4	chl. abundant carb. talc (white clay	red siltst + clays	1	x	3	3
IVV 777		10160	R 0.7	3.4	chl. talc tr haematite	red & brown siltstone	1	x	2	4
IVV 778		10120	T 1.0 fine g.f.p.-haem-g/w gravel	3.4	chl. talc/montm. clay	"	1	x	3	4
IVV 779		10080	R 0.8		chl.	"	1	x	2	3

Hole 2.17.cm 22/8/91

Oil line broken 14 hole 686 23/8/91

Repair oil line 24/8/91 Start 11.30a

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVV 780	9520	10040	T 2.6m kaol. qtz granule	5.2	abund. carbonate chlorite	red glw + br. silic. comb.	1	x	1	4
IVV 781		10000	R 0.8	3.4	talc chlorite	pink siltst.	1	x	2	4
IVV 782		9960	T 1.1 granule	3.4	chl. abund. carbonate	"	1	x	2	3
IVV 783		9920	T 1.1 qtz-haem. granule	5.2	slightly talcose fine qtz-brownish staining	kaolin. pink siltstone	1	x	5	2
IVV 784		9880	T 1.5 qtz-haem granul.	5.2	slightly talcose tr. v. fine haem.	D. brown kaolinised glw.	x	x	2	3
IVV 785		9840	T 3.5	7.0	chl.	v. weath. pink siltst.	1	x	2	3
IVV 786		9800	T 1.7	5.2	chlorite fine qtz-haem. vns.	purplish glw	1	x	3	3
IVV 787		9760	T 1.6 + clays to 3.4	5.2	chlorite abund. carbonate	bright red sandy glw f.g.	x	x	3	2
IVV 788		9720	T +2.0. no clay	7.0	chlorite abund. qtz-haem vns	brownish f.g glw	x	x	7	3
IBIT → IVV 789		9680	T +2.5? too hard - hole abandoned	3.6	chlorite qtz-haem-chlorite chips qtz chips	dk red haem. glw bedrock or hard silic. boulder	1	x	3	4
IVV 790		9640	T 3.4+ clays	7.0	chl.	dk red pt. kaolin f.g. glw	1	x	3	2
24/8/91 22 holes 105.6m IVV 791		9600	T 3.6m + granule	7.0	chl. some qtz-chl-haem veins	kaolinised red glw (may be granule?)	1	x	2	2
IVV 792		9560	T 5.0 + clays → 7.0	8.8	chlorite END 24/8/91	dk red chl. siltstone	1	x	5	2
IVV 793		9520	T 3.7 clayey 3.7-7.0	~~5.2~~ 7.0	"	"	1	x	4	2
IVV 794		9480	T 4.2 clay 4.2-7.0	↔ 7.0	chlorite some haematite in glw	dk red chl. greywacke + mottled clay	1	x	7	5
IVV 795		9440	T 4.7 thick granule	7.0	chl.	pinkish brown pt. kaolin f.g. greywacke	1	x	11	4
IVV 796		9400	T 5.0 thick granule	8.8	chlorite (qtz-glw)	dk red siltstone	x	x	130	8
IVV 797		9360	T 5.3 thick granule	8.8	chlorite white talcose clay (qtz/glw)	"	2	x	180	48
IVV 798		9320	T 6.2 qtz-haem-glw granule	8.8	chloritic	kaolinised q.f. porphyry	1	x	260	120
IVV 799		9280	T 7.0?	7.0	boulder bed → (small picrolites?)	kaolin. q.f.p. ? granule - may be granule (contam?)	1	x	68	25
IVV 800		9240	T ? 12.0? hard drilling in boulder beds > 7m	12.4	talc (green chst. q.f.p + red glw)	brown alt. q.f.p. c.g.	x	x	58	12
IVV 801		9200	T 9.0? difficult to pick end fine brown granule - colour variations	12.4	brown talcose clay ox. chl.	" may be weathering	1	x	540	12
IVV 802		9160	5.2 T	7.0	ox. chlorite	q.f.p. f.g.	1	x	52	12
IVV 803		9120	T + 5.3?	7.0	red chl. fragments may be granul.	q.f.p c.g. + picrolites f.g.	1	x	32	12
IVV 804		9080	T + 5.0 (q.f.p granule + haem + tr picrolites)	8.8	red chl. fragments greenish weath. telebone.	kaolin. q.f.p.	2	x	11	5
IVV 805		9040	T ~ 5.4?	7.0	green/brown chst chlorite	brown chl. q.f.p + chst (? silic sed)	2	x	24	5
IVV 806		9000	T ~ 5.4?	7.0	strongly weathered	kaolinised silicified sediment	2	x	16	7

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
9.14 116.	IVV 807	9440	9000	T 6.8 fine g.f.p. granules + haem.	8.8	silica	white + lim. brown stained f.g. sediment or porphyr.	3	x	4	4
	IVV 808		9040	T 8.8 g.f.p. granules + Fe ox	10.6	silica tr. haem. minor dendrites	white ch. porphyry.	2	x	26	90
	IVV 809		9080	T 8.0 haem. hem. rg. g.f.p. granules.	8.8	chlorite	Fe (ex chl.) stained g.f.p.	1	x	10	8
25/8/91. 20 holes 181.2m.	IVV 810		9120	T 7.3 granules as above	8.8	greenish felsular	g.f.p	1	x	14	12
	IVV 811		9160	T 9.3 granules as above	10.6	—	Kaolinised g.f.p.	1	x	21	7
In mulga tree xxxx line ? fault ? white	IVV 812	END 25/8/91	9200	T 10.3 fine g.f.p. granules	17.6	clays of montmorill strongly limonitic 12.0 – 17.6	limonite brown clay with small black mineral (goethite ?)	2 3	15	320	105
	IVV 813		9240	T 16.0 g.f.p. granules + haem. / stockwork qtz?	19.6	abund. haem. vns/clots in g.f.p.; barren qtz vns.	strongly qtz veined g.f.p.	1	x	210	7
	IVV 814		9280	T 7.6 g.f.p. + haem + glass granules	10.6	limonite from weathering	Kaolinised g.f.p.	x	x	255	14
	IVV 815		9320	T 6.0 granules as above	10.6	slightly talcose clay strongly chloritic	dark red brown glass + white greasy montmor.	1	x	140	7
	IVV 816		9360	T 5.6 g.f.p. granules	10.6	chl.	dull pink kaolinised pink glass	1	x	130	9
	IVV 817	12560	10040	T 13.7 g.f.p. granules	16.0	abundant green talc abund. qtz-chl. veins	dull green brown silica g.f.p.	x	x	10	6
18.1T — broken on qtz vein.	IVV 818		10080	T 13.2 as above	15.9 broken bit	green talc qtz-talc veins chlorite	qtz vnd dk br. chl. alt. greywacke	3	x	15	3
	IVV 819		10120	T 10.9 as above	19.6	talc dominant rock chlorite, tr. qtz ~1m fine white talc	dk red chl. grawe. + talc	x	x	7	4
9 holes 131.3m	IVV 820		10160	T 10.9 as above	16.0	chlorite very talcose tr. thin qtz vns.	"	1	x	26	6
xxxx ? geosamples	IVV 821	END 26/8/91	10200	T 8.8	12.4	talc monoxides (ex chlorite?), qtz	dk brown goethite + green talc	1	x	12	5
AWM 27.8.91 st.	IVV 822		10000	T 13.4	19.6	talc chlorite qtz stringers	dk red fg. gw.	1	x	9	4
	IVV 823		9960	T 12.4	21.4	chl minor talc. qtz veins/frags gw	dk red f.g. gw	1	x	16	4
	IVV 824		9920	T 8.8	21.4	chl. clay-greenish qtz st., (red-green	m.g. chl gw + qtz frags/eyes	1	x	6	3
	IVV 825	unable to penetrate clay-1hr.	9880	T 10.6	16	greenish Mont. clay-talcose? some quartz	gr. Mont. clay eyes	1	x	16	6
6 Holes	IVV 826		9840	T 12.4	19.6	dk grey-green chloritic clay.	dk red cl. gw. greenish clay-chl?	1	x	21	3
TOTAL 117.6m	IVV 827	END 27.8.91	9800	T 10.6	19.6	greenish clay-chl, Mn ? here white talc 1m	beige fg gw. cl. talcose	1	x	22	3
28.8.91	IVV 828		9760	T 12.4	21.4	off-white talc.	beige Fg gw-qtz stringers	1	x	170	3
	IVV 829		9720	T 12.4	21.4	greenish-chl. clay off-white talc.	dk red fg g.w.	1	x	84	11
	IVV 830	NO GO IN CLAY (5.2m +)	9680	T 10.6	19.6	greenish chl. clay black limonitic clay	greenish clay-chl. (last 1.5m)	9 6	x	42	4
4 holes	IVV 831		9640	T 7.0	14.2	med to dk green chloritic clay limonite staining and/or Mn?	dk red gw + off-white talcose clay	18 13	x	19	6
TOTAL 76.6 29.8.91	IVV 832		9600	T 8.8	19.6	greenish chl. clay limonitic stains.	beige fg gw chl clay	x	x	34	3
	IVV 833	NO GO IN CLAY	9560	T 8.8	16	green chl. clay. frags. ferr. gw-	greenish clay-chl.	3	x	44	12

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
	IVU 834	11,600	10,200	T 1.6	16	–	Brown Siltst.	x	x	7	2
	835		10,160	T	3.4	–	Greywacke	1	x	17	3
29.8.91	836		10,120	T	5.2	greenish chloritic clay	Red/brown greywacke	1	x	7	3
	837		10,080	T	7.0	talcose	Qz. Porphyry	x	x	3	2
	838		10,040	T	5.2	–	Brown greywacke	1	x	10	7
	839		10,000	T	8.8	trs haematitic banding	Red brown Siltstone	1	x	4	3
	840		9,960	T	10.6	–	Red brown Siltstone	1	x	6	4
	841		9,920	T	16	–	Brown porphyry	1	x	5	3
	842		9,880	T	7	? chlor (haem) and goethite	Dark red Siltstone	1	x	6	6
13 holes	843		9,840	T	8.8	haematite ex chlorite ?	Dark red Siltstone	3	x	10	6
130.6m	844		9,800	T	7	haematite after chlorite ?	Dark red Siltstone	2	x	5	5
	845		9,760	T	8.8	–	Red brown greywacke	x	x	2	2
	846		9,720	T	10.6	Haem ex chlor.?	Red brown greywacke	1	x	4	3
	847		9,680	T	8.8	Haem. ex chlor.?	Dark red greywacke	x	x	5	4
	848		9,640	T	7.0	–	Pink brown Siltstone	x	x	3	2
	849		9,600	T	7.0	–	Pink brown Siltstone	1	x	7	7
	850		9,560	T	7.0	? chlorite ?	Pink brown greywacke	x	x	3	4
	851		9,520	T	8.8	Haematitic - quartz veining	Brown/pink Siltstone	1	x	4	6
	852		9,480	T	8.8	Quartz veining	Pink brown Siltst.	1	x	5	5
	853		9,440	T	3.4	Haematitic ex chlorite ?	Dark red greywacke	x	x	4	5
	854		9,400	T	3.4	Quartz veining	Brown greywacke	x	x	6	3
	855		9,360	T	5.2	? Chlorite + goethite	Pink brown greywacke	x	x	4	3
	856		9,320	T	5.2	–	Pink brown Siltstone	2	x	15	6
	857		9,280	T	3.4	Haematitic after chlorite ?	Red greywacke	1	x	22	5
	858		9,240	T	3.4	–	Vein quartz	1	x	15	4
	859		9,200	T	3.4	–	Vein quartz	x	x	9	4
	860		9,160	T	3.4	–	Pink brown Siltst...	1	x	12	5

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
	IVV 861	11,600	9,120	T	3.4	Haematite after chlorite	Dark red greywacke	1	x	5	3
	862		9,080	T	3.4	"	"	2	x	9	4
	863		9,040	T	5.2	Quartz stringers	Dark red Siltstone	1	x	5	8
	864		9,000	T	3.4	"	Pink brown	1	x	11	5
	865	11,680	9,000	T	7	Chlorite + haem. ex chlor.?	Dark red greywacke	3	x	3	3
	866		9,040	T	3.4	Haem. ex chlorite + Minor chlorite	"	1	x	8	8
	867		9,080	T	5.2	Haem. ex chlorite	"	2	x	7	8
	868		9,120	T	3.4	"	"	1	x	7	7
	869		9,160	T	3.4	–	Pink brown Siltstone	x	x	5	4
	870		9,200	T	3.4	–	Vein Quartz	1	x	7	4
	871		9,240	T	3.4	Minor carbonate	Pink brown Siltstone	1	x	5	3
	872		9,280	T	3.4	"	Pink brown greywacke	2	x	6	3
	873		9,320	T	5.2	Haematite ex. chlorite + minor carbonate	Dark red greywacke	1	x	10	5
	874		9,360	T	3.4	Haematite ex. chlorite + minor carbonate	"	2	x	6	8
	875		9,400	T	3.4	"	"	1	x	6	4
30/8/91. 34 holes 194.2m	876		9,440	T	3.4	"	"	1	x	5	5
	877		9,480	T	7	–	Brown porphyry	x	x	4	2
31/8/91	878		9,520	T	5.2	Haematite ex chlorite	Dark red greywacke	1	x	4	6
	879		9,560	T	12.4	–	Grey Siltstone	2	x	5	4
	880		9,600	T	8.8	Quartz stringers	"	1	x	1	5
	881		9,640	T	10.6	"	Pink brown greywacke	1	x	2	7
	882		9,680	T	5.2	" + Haem. ex chlorite	Dark red greywacke	1	x	12	10
	883		9,720	T	10.6	Haematite ex. chlorite	"	1	x	6	4
	884		9,760	T	12.4	"	"	1	x	7	5
	885		9,800	T	16	Quartz stringers	Green brown Porphyry	1	x	15	6
	886		9,840	T	14.2	Haematite ex. chlorite	Dark red greywacke	1	x	7	4
	887		9,880.	T	8.8	–	Pink brown Greywacke	1	x	6	6

BEDROCK GEOCHEMICAL VACUUM DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
	IVV 888	11,680	9,920	T	10.6	–	Grey brown greywacke	1	x	8	4
	889		9,960	T	14.2	–	Pink greywacke	x	x	41	6
	890		10,000	T	19.6	Massive grey chlorite last 6m	Grey porphyry.	x	x	4	6
15 holes	891		10,040	T	8.8	Some chlorite	Pink brown greywacke	2	x	4	2
166.2 m	892		10,080	T	8.8	"	Greenish porphyry	x	x	4	6
	893		10,120	T	8.8	Haematite after chlorite ?	Dark red greywacke	x	x	1	2
	894		10,160	T	7	"	"	1	x	2	2
	895		10,200	T	8.8	quartz stringers	Pink brown greywacke	x	x	6	2
	896	11,760	10,200	T	5.2	Haematite after chlorite ?	Dark red greywacke	1	x	4	2
	897		10,160	T	10.6	"	"	1	x	9	2
	898		10,120	T	8.8	"	"	2	x	2	2
	899		10,080	T	12.4	–	Green grey porphyry	x	x	8	5
	900		10,040	T	16	chloritic	Green brown porphyry	1.	x	6	4
	901		10,000	T	12.4	"	"	x	x	8	3
	902		9,960	T	10.6	Haematite after chlorite?	Dark red greywacke	x	x	6	4
	903		9,920	T	8.8	–	Pink brown greywacke	1	x	4	7
13 holes	904		9,880	T	10.6	quartz stringers	"	x	x	6	4
130.6 m	905		9,840	T	10.6	chloritic	greenish porphyry	1	x	5	6

APPENDIX III

West Ivanhoe Grid.
Bedrock geochemical RAB drilling hole logs, 1991.

PROJECT : TENNANT CREEK PROSPECT : IVANHOE EL 6205/7445)

BEDROCK GEOCHEMICAL RAB DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVR 1	12,560	9,520	Red Brown Gravel (river) Weath Brech	5m 5-11m 21m	Talcose and Argillic.	11-18. Red Brown clay 18-21 Talc + -Clay	2	x	19	7
IVR 2		9,480	Rod Br. River gravel	0-6m 6-12m 21m	Talcose and Argillic	As above	3	x	17	4
IVR 3		9,440	Red Br. River gravel	0-6m 6-13m 21m	Talcose, argillic and haematitic (chl)	13-21m Red brown to light gr. clay-talc	3	x	8	7
IVR 4		9,400	Rod Br. River gravel	0-6m 5-12m 15m	Goethitic and haematitic ? gossanous ?	Red brown QFP ?	4	x	12	6
IVR 5		9,360	4m Red br. 7m river gravel	15	Talcose + some carbonate and goeth/haem. gossan	Cream Talc Carb. rock.	3	x	10	6
IVR 6		9,320	4m Red br. 5m river grav. 3m R.	15	Very Talcose + minor goethite gossan	Talc (-goeth) rock	1	x	5	3
IVR 7		9,280	5m Red br. 4m Riv. gr. 6m scree?	18	Quartz veining - minor talcose partings	White Quartz talc	1	x	5	5
IVR 8		9,240	4m Red br. 5m r. grav.	15	Talcose - argillic - with b.p. brown & red gossan bands	Talc-clay light br. gossanous QFP	2	x	9	2
IVR 9		9,200	2m Red br. 7m River gravel	12	Haem (magnetite stringers (gossanous) - argillic alt	Brown Sorry. weath ? QFP ?	2	x	26	7
IVR 10		9,160	5m Red br. 4m gravel	12	Goethitic quartz veining - minor Fe stone stringers	QUARTZ VEIN	2	x	5	4
IVR 11		9,120	4m Red br. 7.5m R gravel	15.	Talcose with quartz veins. Some carbonate	Talc-carb-qtz. rock	1	x	3	2
IVR 12		9,080	5m Red br. 3m R grav. 3m scree?	15	Talcose with goeth. 14m-15m. Minor carbonate.	Talc/talc-limonite rock White - light br	x	x	3	5
IVR 13		9,040	4m red br. 5m r. gravel 2m R.	15	Very talcose	Cream SILTSTONE	2	x	5	1
IVR 14		9,000	6m red br. 2m R.	15	Very talcose with gossan bands	Pink-cream TALC ROCK ? QFP.	2	x	2	2
IVR 15	12480	9,000	4m red br. 6m R. gravel.	15	Talcose with 5% goethite	Light brown talc-limonite rock	1	x	3	5
IVR 16		9,040	3m red br 6m gravel 2m R.	15	Very talcose with limonitic (thin) goss. & qtz stringers	Cream to yellow brown talc-limonite	1	x	4	2
IVR 17		9,080	4m red br 4m gravel 3m R scree?	15	Talcose with quartz & limonitic gossan stringers	Pink & white slight brown Talc-limonite	1	x	5	1
IVR 18		9,120	2m red br. 2m brown 7m gravel 1m R.	15	Talcose + qtz + some limonite (goeth) stringers	Cream Talcose rock.	1	x	4	1
IVR 19		9,160	3m red br. 5m gravel 1m R.	15	Talcose QFP with qtz eyes. Mainly talc + clay	Brown & white massive altered QFP.	x	x	5	1
IVR 20		9,200	4m red br 8m gravel	15	Talcose & quartz veined with haematite stringers	Cream brown QFP Qtz bipyramid	1	x	7	1
IVR 21		9,240	2m red br. 6m gravel	15	Talcose with limonite/haematite gossan bands	Light brown to brown Talc-limonite rock	4	x	10	3
IVR 22		9,280	3m red br. 6m gravel.	12	Slightly talcose with haematitic gossanous bands.	Light brown to brown QFP.	2	x	12	7
END	FUEL FILTER LOOSE - STOPPED DRILLING AT 3.45 TO ALLOW RIG TO COOL 30/9/91 - TOTAL 342 METRES.									
1/10/91 IVR 23		9,320	4m yell. br. 5m gravel	12	Talcose with goethite/haem gossan, stringers	Greenish brown TALC ROCK Alt. QFP?	4	x	14	7
IVR 24		9,360	4m yell. br. 5m gravel	15	Some talc + goethite	Cream to brown alt. weath. QFP	4	x	10	4

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
Bot Fwd 27m 11 1	IVR 25	Continued 12,480	9400	3 red br. 5.5 gravel	12	Some haematite + goethite.	Brown ferruginous QFP?	6/5	x	14	11
	IVR 26.		9,440	2m br. 7m gravel	12	Minor haem/goeth - weathering.	Cream + red br. QFP?	5	x	15	9
	IVR 27		9,480	2m red br. 7.5 gravel	12	-	Red + grey weathy QFP?	4	x	11	10
x x x x	IVR 28		9,520	2m red br. 10m gravel	15	Very gossanous haematite/? jarosite b.p. brown +	Red brown Ferrug QFP?	4	x	14	6
	IVR 29		9,560	3½ red br. 6 gravel	15	Slightly talcose with narrow Seric. ferrug. shears.	Cream + red altered QFP?	7/4	x	18	10
	IVR 30		9,600	2m mange br. 3.5 o.b. grav. 5 br. grav.	15	Minor haem. + goeth.	Altered green/red br. QFP?	2	x	28	4
	IVR 31		9,640	1m o. br. 9.5m grav	15	Minor haem + goeth.	Cream + greenish br. QFP. ? gr	4	x	41	24
10 holes 138m	IVR 32		9,680	2m red br. 3m o.b. gr. 4.5 pink cream	15	Haematitic in places + Mn.	Cream + brown GW?	2	x	22	25
14 4m	IVR 33		9,720	2m r.b. 2m r.b. grav 6.5 pink b. gr.	15	Haem./goeth + Mn.	Green br. QFP.	3	x	26	13
POSSIBLE SILCRETED SECTION.	IVR 34		9,760	2m r.b. 2m y b grav 7m br. g.	15	Some ferrug stringer + manganese	Cream grey clay rock alt. QFP?	6/4	x	30	7
	IVR 35		9,800	2 r.b.s 2 y b grav 6 b grav.	15	talc - clay - manganese. ✓	talcose? clay rock ✓	9/7	x	28	8
	IVR 36		9,840	2 r b.s. 3 r b grav 5 br grav	15	Argillic alteration with mass. haem. stringers	Cream + reddish cream QFP.	3	x	15	6
	IVR 37		9,880	2 r b s 2 r b g 4 g	9	Mainly vein qtz. Grw has rounded detrital haem. or magn.?	Lt. brown GW/SST	1.	x	11	9
	IVR 38		9,920	2 r b s 2 y b grav. 7 br gr.	15	Argillic	Cream-white CLAY ROCK	2	x	14	5
	IVR 39		9,960	2 r b s. 2 y b grav 6 br.-org.	15		Cream QFP.	2	x	7	4
	IVR 40		10,000	2 r.b.s 7 b. grav.	15	Talcose	White QFP	1	x	4	3
	IVR 41		10,040	2 r.b.s. 2 o.b. grav 3 b. grav	15	Talc-Carb.	Talc-Carbonate-clay rock	2	x	7	4
	IVR 42		10,080	2 r.b.s 3 y.b. grav 3 br. gr.	15	Talcose Small haem. string.	Pink + white clay rock	1	x	3	2
20 holes 282m. 135 417m	IVR 43		10,120	2 r b s 3 y b grav 4 y b grav	15	Talcose	White Sericitic Siltst.	1	x	3	2
	IVR 44		10,160	2 r.b.s. 2 y.b. gr. 3.5 b. grav	15	Minor talc.	7.5-9.0 Br. haem silt 9-15 cream Seric. silt	1	x	21	2
	IVR 45		10,200	2 b.s 4 y.b. grav 4 l.br. grav	15	Some talc + haem. stringers	Red/cream Sericitic siltst.	1	x	8	2
	IVR 46	12,400E	10,200	2 b.s. 2 y b gr. 7 b grav	15	talcose + some haem stringers	Pink + cream sericitic silt/gw	1	x	8	3
	IVR 47		10,160	2 b.s. 1 r b gr. 3 br. gr 4 duricrust	15	talcose	Cream sericitic siltstone (some haematitic)	1	x	6	6
	IVR 48		10,120	1 r b.s. 2 y.b. grav 5 b grav	15	Very minor talc	Pink, green + grey Siltst.	1	x	4	3
	IVR 49		10,080	1 r.b.s 2 y.b. grav. 5 b. grav.	15	-	Cream + red haem. + seric siltst.	2	x	5	4
	IVR 50		10,040	2 y b s 2 y b grav 6 b. grav	15	Sheared talcose with haem goeth jar. b.p. gossan bands	Cream + red/br. altered QFP.	3	x	6	6
	IVR 51		10,000	1.5 r b.s. 7.5 r b b grav 2m R	15	Very talcose	Talc Rock + qtz veining	1	x	8	5

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
21/10/91 IVR 52	12400 continued	9,960N	T 10	15	?	Grey ? Possible Silcrete + Mn	5/3	x	20	6
53		9920	T 11	15	?	Grey Clay + Mn	5/4	x	29	6
54		9880	T 10	15	?	Grey Silcrete + Mn	3	x	25	6
55		9840	T 11	15	?	Grey Silcrete + Mn + GW (dk red)	3	x	18	9
56		9800N	T 10	15	?	Grey Silcrete + Mn	2	x	14	7
57		9760	T 10	15	?	Brown f.g greywacke + Silcrete Mn	4	x	18	10
58		9720	T 12	15	?	Grey silcrete and gwacke/silts	3	x	14	7
59		9680	T 11	15	?	Grey silcrete + very weath Greywacke	2	x	27	7
IVR 60		9640N	T 7	15	red/beige clay chloritic	FG DK Red gw	3	x	15	5
61		9600N	T 11	15	beige clay chloritic	FG dk red gw.	6/5	x	15	5
62		9560	T 11	15	?	Grey clay and silcrete	4	x	10	4
63		9520	T 11	15	? chloritic (known) ?	Grey silcrete + red v.w. greyw.	5/4	x	10	5
64		9480N	T 7	15	off white talcose clay	Fg dk red gw br.	1	x	15	11
65		9440	T 9	15	Off white talcose Clay	Fg dk red gw.	7/5	x	9	9
66		9400	T 7	18	O/W talcose clay	Fg dk red gw.	1	x	5	4
67		9360N	T 8	14	O/W to kakki talc. clay	Fg dk red gw tq. frags.	1	x	3	6
68		9320N	T 8	14	O/W talc. clay	Fg dk red cl. gw.	1	x	4	4
69		9280N	T 4?	6	Kahki chl. clay	V. dk red Fg silt st + tq. frags.	4	1	11	9
70		9240N	T 8	15	Kahki chl. clay	dk red silt st.	1	1	16	6
71		9200N	T 8	18	O/W talc clay	dk red Fg gw	1	5	56	7
72		9160N	T 5	10	Kahki chl. clay.	qep chl.	4	4	12	7
73	POR	9120N	T 3	9	Kahki chl. Clay	VH sil. qep ?	3	2	19	9
74	POR	9080N	T 3	8	Kahki chl Clay	VH Fg dk red gw.	1	1	16	12
75		9040N	T 8	15	dk red chl? clay	Fg gw + qtz fr. qep?	x	1	6	7
76	Very soft.	9000N	T 5	18	dk red chl clay	qep ? abundant qe's	4	1	8	3
77	12320E	9000N	T 8	15	Kahki chl. clay.	qep? abundant qe's	2	x	4	2
78		9040N	T 10	15	O/W chl. clay	qep abundant	4/2	8	8	5

POR = Point of refusal

4

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
2.10.91 Continued	IVR 79	12320E	9080N	T 5	15	O/W chl clay	qcp abundant qcs	2	×	6	1
	IVR 80		9120N	T 5	15	Large qts o/w chl. clay talc.	qcp abundant qcs	×	×	12	1
	81		9160N	T 7	15	talcose o/w clay	Fg dk red siltst.	1	×	11	2
TOTAL 460m	82		9200N	T 7	15	talcose o/w clay	Fg dk red gw.	1	×	6	2
.10.91	IVR 83		9240N	T 7	15	talc. o/w clay	dk red sill st.	×	×	8	2
	84		9280	T 7	15	o/w to kahki chl. clay	dk red Fg clgw	×	×	4	3
	85		9320	T 9	15	o/w talc clay	dk red Fg cl.gw	1	×	10	6
	86		9360	T 10	15	o/w to beige chl clay.	dk red cl. sillst.	1	×	7	3
	87		9400	T 6	15	bright green clay - talcose/chl.	o/w cl. siltst. + qfs.	4	×	9	3
	88		9440N	T 6	15	O/W talc clay	dk red Fg Cl.gw	×	×	2	2
	89		9480	T 5	18	O/W talc clay	beige cl. br. silt st.	1	×	4	2
	90		9520	T 6	18	o/w talc clay	brown br cl. silt st.	2	×	6	1
	91		9560 N	T 6	18	o/w to green clay - chl.	o/w to beige cl. siltst.	1	×	16	2
	92		9600N	T 5	18	greenish chl clay	brown cl silt st.	×	×	8	3
	93		9640N	T 5	18	O/W chl clay	beige br cl silt st.	×	×	16	1
180 m	94		9680	T 7	21	greenish chl. clay.	dk red cl silt st. Ferr. + q. frags.	×	×	6	1
	95		9720	T 10	24	greenish chl-talc clay	dk red Fg gw.	1	×	13	1
	IVR 96		9760N	T 10	21	green-grey chl clay	beige silt st qtz fr. + minor hematite	2	×	9	3
	97		9800N	T 10	21	O/W talc clay	beige cl. br. sillst.	1	×	8	4
	98		9840N	T 10	24	Kahki chl. clay.	Large qfs beige to red cl silt st	2	×	6	3
241	99		9880	T 10	24	o/w talc clay	cl silt st grey to red	1	×	19	4
	100		9920N	T 10	24	pinkish clay chl.-talc	cl. beige silt st.	1	×	8	3
	101		9960	T 10	21	o/w to kahki talc clay.	grey to dk red silt st large qfs-br	1	×	13	3
	102	12320E	10000N	T 11	21	o/w talc clay (4m Mn silcrete)	grey cl silt st.	5/5	×	7	2
	103		10040	T 11	18	o/w to kakki talc-chl. clay	chl. grey cl. silt st.	1	×	9	2
	104		10080	T 10	18	o/w to kakki talc-chl clay	dk red cl silt st.	1	×	6	2
	105		10120N	T	18	greenish clay talc/ch.	dk red Fg gw.	1	×	7	3

5.

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
435m	IVR 106	12320E	10160N	T 10	21	o/w talcose clay.	qep qtz abundant	1	×	7	3
3.10.91 (Continued)	107		10200N	T 10	21	o/w talcose clay	beige siltstone.	×	×	10	3
Total 477	108	12240E	10200N	T 10	18	greenish talc clay (Mn)	grey cl siltst. sericite.	2	×	8	4
5.10.91	109		160 ~~10240~~	T 10	21	greenish Mn talc clay	dk red-grey FG gw.	1	×	7	4
	110		120 ~~10280~~	T 11	21	greenish talc clay.	dk red Fg siltst.	2	×	10	3
	111		10080N	T 11	18	greenish talc Mn clay.	dk red Fg gw.	3	×	11	3
	112		10040	T 11	21	greenish Chl. Mn clay.	dk red siltst + ab. q. frgs.	1	×	7	2
	113		10000N	T 10	15	gr. Chl Mn clay + silc.	dk red Fg gw.	2	×	12	9
	114		9960	T 10	15	gr. Chl Mn - clay + silc.	dk red gw + hematite	3	×	29	25
	115		9920	T 9	15	gr. Chl Mn clay + silc.	dk red cl gw.	1	×	17	9
144m	116		9880N	T 9	12	gr. Chl. Clay + silc.	dk red gw.	1	×	8	7
	IVR 117		9840	T 9	15	gr Chl. Mn stained clay	dk red cl siltst.	1	×	16	7
	118		9800	T 9	15	gr. Chl. Mn. clay + silc.	dk red gw + large q. Fs.	1	×	10	6
	119		9760N	T. 9	12	gr. Chl Clay. + silc.	dk red gw minor hem.	1	×	16	8
	120		9720	T 9	12	gr Chl. clay + silc	dk red siltst.	1	×	10	6
	121		9680	T 9	18	gr. Chl Mn clay + sil + qtz talc.	dk red cl br. gw + qts	1	×	22	6
	122		9640	T 9	15	gr Chl clay + silc.	grey-seri. cl. siltst.	1	×	10	6
	123		9600	T 9	15	o/w talc clay	white seri. cl siltst.	×	×	4	3
	124	abundant qtz	9560N	T 5	12	gr. Chl. clay + silc.	Silicified sed. qtz - hem (minor)	1	×	8	3
	125	abundant qtz.	9520	T 4	9	gr. Chl. clay + silc	Silicified br. siltst. qvs + string.	1	×	7	3
279	126		9480	T 6	9	o/w Chl clay + q Fs	br. cl. dk red siltst.	1	×	6	3
	127		9440	T 6	9	gr to ow talc clay	grey cl br siltst.	3	×	7	3
	128		9400	T	9	o/w talc. clay	dk red cl br. silt st.	1	×	10	7
	IVR 129		9360N	T 5	9	o/w talc clay	dk red cl. br siltst.	1	×	5	7
	130		9320	T 4	6	gr. Chl clay + silc	dk red siltst.	1	×	19	13
	131		9280	T 5	9	gr. Chl. clay + Mn silc.	dk red siltst.	1	×	11	7
	132		9240N	T 1	9	gr Chl. clay + [illegible]	dk red gw	1	×	12	15

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

339

5.10.91

375

3

TOTAL 393m

6.10.91

39

SS = slickenside.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
133	12240E	9200N	T 4	9	greenish chl clay + silc.	grey sericitic cl. siltst	1	x	8	10
134		9180N	T. 4	9	gr. chl clay Mn silc.	grey to dk red gw tq.fr.	1	x	8	5
135		9120	T 4	9	o/w talc clay	grey cl seri siltst.	1	x	6	7
136		9080N	T 4	9	gr. chl. clay + silc	dk red gw.	1	x	21	2
137		9040	T 4	9	gr. chl. clay to silc (Mn)	qeP (ab. qeé)	1	x	24	2
138		9000N	T 4	9	gr. chl clay + silc.	qeP. ab. qeé	1	x	26	3
139	9440E	10200N	T 1	3		beige gw. br.	x	x	17	4
140		10160	T 1	3		dk red gw.	1	x	11	4
141		10120	T 1	3		beige br gw.	1	x	12	5
142		10080	T 1	3	chl.	grey gw.	1	x	10	2
143		10040	T 1	3	chl.	dk red silt cl.	1	x	7	3
144		10000N	T 1	3	chl.	grey to dk red siltst.	1	x	8	3
145		9960	T 1	3	chl.	cl. siltst. grey to rd.	1	x	8	3
146		9920	T 1	3	chl	beige silt st.	1	x	5	4
147		9880	T 1	3	chl	gray silt st.	1	x	11	6
148		9840	T 1	3	chl.	beige silt st.	1	x	14	5
149		9800N	T 1	3	chl. silc.	beige gw. cl.	1	x	9	5
150		9760	T 1	3	chl silc.	beige gw. cl.	1	x	13	5
151		9720	T 2	3	silcrete	beige gw. cl.	1	x	14	7
152	abundant qtz-fault.	9680	T 4	6	chl. gr clay SS large qf.	dk red gw. tq.F. hem.	x	x	15	2
153		9640	T 4	6	gr. clay + chl. silcrete.	dk red gw. cl.	x	x	24	2
154		9600	T 4	6	gr clay - chl.	beige gw. cl.	x	x	8	2
155		9560	T 4	6	gr. clay - ch.	beige cl gw.	1	x	9	3
156		9520	T 4	6	gr. clay.	red band. silt st.	1	x	9	3
157		9480	T 4	6	gr clay	red cl silt st.	1	x	8	3
158	Rd.	9440	T 4	6	gr clay Mn silc.	dk red cl gw.	1	x	34	5
159		9400	T 1.	6.	Large qtz fr.	beige cl silt st.	1	x	30	4

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
87— 6.10.91.	160	9360E	9000N	T 5	9	gr clay.	grey cl. siltst.	1	x	12	4
	161		9040N	T 3	6	gr clay.	red gw + silc.	2	x	10	9
	162		9080	T. 9	12	gr clay + silc.	qep abundant qes	1	x	11	3
	163		9120	T 9	12	gray chl clay + silc.	qep abundant qes	1	x	12	2
	164		9160	T 9	12	gray-gr chl clay + silc.	qep abundant qes.	1	x	9	2
	165		9200	T 9	12	grey-gr chl clay + silc	qep. abundant qes	1	x	11	3
	166		9240	T 8	12	gr chl. clay Mn Silc.	dk red siltst.	x	x	62	5
	167	9360E	9280	T 8	12	gr chl. clay. silc	dk red gw.	1	x	265	9
	168		9320	T 8	12	gr chl clay Silc	cream sericitic cl. br. siltst.	1	x	88	6
	169		9360	T 6	9	gr chl clay + Silc.	beige siltst.	3	x	155	9
	170		9400	T 3	6	gr chl. clay + Silc	beige cl br Siltst.	2	x	25	5
	171		9440	T 3	6	greenish chl clay	beige cl siltst.	1	x	20	4
	172		9480	T 3	6	gr chl. clay	beige cl. br siltst.	1	x	10	3
*	173		9520	T 3	6	dk gr chl.? (mont.) clay.	beige cl. br. Silt st.	1	x	15	3
	174		9560	T 4	6	gr clay chl.?	beige cl br silt.	1	x	20	3
	175		9600N	T 4	6	gr clay chl.?	cream cl. br. Silt st.	2	x	13	3
	176		9640	T 3	6	gr Clay Chl.?	beige silt st.	1	2	13	2
	IVR 177		9680	T 3	6	gr chl. Clay	beige to cream silt st.	1	x	11	2
	178		9720	T 3	6	gr chl.-clay	beige cl. silt st	1	1	8	3
249—	179		9760	T 3	9	gr chl.-clay	beige cl silt st.	x	x	8	3
	180		9800	T 3	6	gr chl-clay	beige cl br silt st.	1	x	8	2
	181		9840	T 3	9	gr chl-clay	beige br silt st.	1	x	5	2
	182		9880	T 1	3	brown clay + silc.	beige silt st.	1	x	11	5
	183		9920	T 2	6	gr chl clay	beige silt st.	1	x	4	2
	184		9960	T 2	6	gr chl clay	cream silt st gr. chlorite	x	x	4	2
	185		10000N	T 1	3	greenish chl clay	beige silt st. + gr chlorite.	1	x	7	4
	PTO.										

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
6.10.91	186	9280E	10000N	T 2	6	gr. chl. clay.	beige cl br silt st. gr. chlorite	x	x	4	2
	187		9960	T 2	6	gr. chl. clay	beige to cr. silt st cl. br.	1	x	4	2
	188		9920	T 3	6	Kahki chl clay	cr. cl. br. silt st.	1	x	6	2
	189		9880	T 3	6	Kahki chl clay.	cr silt st br, cl.	1	x	5	2
	190		9840	T 3	6	Kahki clay	beige silt st.	1	x	5	2
	191		9800	T 3	6	Kahki clay to gr. chl.	beige silt st. cl br.	x	x	6	2
CR - cream	192		9760	T 3	6	gr to beige clay - chl.	beige to cr. gw.	x	x	3	2
	193		9720	T 3	6	gr chl clay	beige silt st. cl. br.	x	4	26	2
	194		9680	T 2	6	gr chl. cl. (+20 mm) Large q. Fs.	green. chl silt st.	1	x	16	5
351	195		9640	T 2	6	gr chl. clay.	beige cl silt st	1	x	9	4
	196		9600	T 2	6	gr chl clay	beige cl. silt st.	x	x	8	3
	197		9560	T 3	6	gr to beige chl. clay.	beige cl silt st.	x	x	10	3
	198		9520	T 2	6	gr to beige chl. clay.	br silt st qtz st. hem.	2	x	13	3
	199	9280E	9480N	T 2	6	gr chl Clay	beige to cr silt st.	1	x	11	4
	IVR 200		9440	T 2	6	gr chl Clay VH qtz st. them	dk red br silt st qz st. hem.	3	x	15	5
	201		9400	T 2	6	gr chl Clay (hard)	cr cl. br. Silt St	1	x	19	3
	202		9360	T 3	9	gr chl. Clay (qtz gravel)	cr to beige cl. silt st.	1	x	9	2
	203		9320	T 3	9	gr to o/w chl talc clay	grey cl silt st.	2	x	145	2
	204		9280	T 3	9	o/w chl clay + silc.	qcp abundant qcs.	1	x	31	2
67 holes Total 426.	205		9240	T 3	12	o/w to gr chl clay.	qcp. abundant qc's.	1	x	44	6
7.10.91	IVR 206		9200	T 9	12	gr chl clay + silc	qcp abundant qc's	x	1	60	7
	207		9160	T 9	12	gr chl. clay + silc.	qcp abundant qc's	x	x	13	13
	208		9120	T 9	12	gr chl. clay + silc	qcp abundant qcs	x	x	9	10
	209		9080	T 9	12	gr chl clay + Silc	qcp abundant qc's	1	x	13	5
	210		9040	T 9	12	gr chl. clay + Silc, qtz st.	qcp abundant qc's	1	x	8	7
69	211		9000N	T 6	9	gr chl clay + silc.	grey silt st?	1	x	6	6
	PTO.										

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
69 — 7.10.91	IVR 212	9200E	9000N	T 9	12	gr. chl. clay + Silc	grey cl. siltst.	1	x	4	9
	213		9040	T 9	12	gr to o/w Chl clay + silc.	qep. chl. abundant qe's	1	x	6	5
	214		9080	T 9	12	gr to o/w Chl clay + Silc	qep chl abundant qe's (fresh)	x	x	7	5
	215		9120 N	T 9	12	green clay - Chl + Silc.	qep chl abundant qe's	1	x	6	6
	216		9160	T 8	12	green clay chl. + silc	qep chl. abundant qe's	x	x	5	8
	217		9200N	T 9	12	gr. chl Clay	chl qep. abundant qe's	1	x	5	4
	218		9240N	T 9	12	gr. Chl Clay	chl qep. Some qe's	1	x	9	3
	219		9280	T 6	9	green chl Clay	chl qep Some qe's	1	x	29	9
	220		9320	T 6	9	o/w talcose clay.	dk red cl. gw.	1	2	48	5
171 —	221		9360	T 56	~~6~~ 9	beige chl. Clay to o/w talc.	dk red gw. talc.	1	x	28	2
	222		9400N	T 6	9	Kakhi Chl clay.	dk red to cr cl. gw.	x	x	165	2
	223		9440	T 6	9	Kahkhi Chl clay	dk red cl. br Silt st	1	x	20	1
	224		9480	T 3	6	Kakhi Chl clay.	beige cl gw.	x	x	23	4
	225		9520	T 3	6	beige Chl clay	beige gw.	x	x	14	3
	IVR 226	9200E	9560	T 3	6	Kahkhi clay - chl.	beige cl br. gw.	1	x	12	4
	227		9600	T 3	6	dk brown Clay chl.	beige to cr gw. cl. br.	x	x	10	2
	228		9640	T 3	6	Kahki clay - ch.	beige gw. cl.	x	x	11	2
	229		9680	T 3	6	Kahki - chl clay.	beige cl. gw.	x	x	20	3
	230		9720	T 3	6	Kahki - chl. clay to grey talc	beige cl br. silt st.	1	x	9	2
	231		9760	T 3	6	beige Chl clay.	beige cl br. silt st.	x	x	7	2
repair hose downtime 1¼ hrs.	232		9800N	T 3	6	beige to br chl clay	beige cl siltst.	1	x	6	2
	233		9840	T 4	6	beige to br chl. clay	beige cl silt st.	1	x	12	3
242 —	234		9880	T 4	6	beige clay Chl.	beige to green cl silt st br.	1	5	7	3
	235		9920	T 4	6	gr chl. Clay	beige cl silt st.	1	x	7	2
	236		9960	T 4	6	beige chl. clay	beige to grey silt st.	x	x	4	2
~~266~~	237		10000N	T 3	6	gr chl-Clay	beige to grey silt st.	x	x	4	2.
	PTO										

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
266 — 7.10.91	IVR 238	9120E	10000N	T 3	6	beige chl clay	beige to grey silt st.	1	x	6	3
	239		9960	T 3	6	beige chl. to o/w talc. clay	beige cl gw.	x	x	7	2
	240		9920	T 3	6	br. chl clay	beige cl silt st.	x	x	6	2
	241		9880	T 3	6	br chl Clay	beige cl silt st.	1	x	7	2
	242		9840	T 3	6	brown chl. clay	beige to grey silt st.	1	x	6	3
	243		9800	T 4	6	br chl. clay	brown cl silt st.	1	x	9	4
	244		9760	T 4	6	beige chl. clay	beige cl br silt st.	1	x	12	2
	245		9720	T. 4.	6	beige chl Clay	beige cl silt st.	1	x	10	2
	246		9680	T 4	6	br chl clay	beige to grey silt st	1	x	10	2
	247		9640	T 4	6	beige chl Clay	beige silt st.	1	x	10	2
	248	9120E	9600N	T 4	6	beige chl Clay	beige cl Silt st.	1	x	9	5
	249		9560	T 4	6	gr chl. clay	grey cl br silt st	x	x	10	4
	250		9520	T 6	9	gr to o/w chl talc. clay.	grey cl br. silt st.	1	x	12	2
347 — POR = point of refusal.	251		9480 N	T 6?	6	quartz v. POR.	quartz v.	1	x	14	6
	252		9440N	T 4	6	o/w talcose clay.	grey cl silt st.	1	x	14	7
381	253		9400N	T 4	6	beige chl. Clay	beige to dk red silt st.	1	x	19	3
	254		9360N	T. 3.	6	o/w chl. Clay	dk red cl gw.	1	1	82	4
	255		9320	T 6	9	o/w talc. clay sericitic?	grey cl sericitic? silt st.	1	x	19	6
402 —	256		9280	T ?	6	quartz v. ow chl. Clay	q v POR	1	x	15	9
	257		9240	T 9	15	o/w talcose clay (4m)	grey sericitic silt st cl.	1	x	10	5
	258	Rd.	9200	T 9	12	o/w talcose clay	qep chl. abundant qe's	1	x	8	3
	259		9160	T 9	12	o/w to br talc clay + Silc.	qep chl. abundant qe's	1	x	5	4
	260		9120N	T 9	12	gr chl Clay + silc.	qep chl. abundant qe's	1	x	4	2
	261		9080	T 9	12	gr silcrete + chl. clay.	qep chl some qe's	3	1	9	7
	262		9040	T 99	12 12	gr silcrete + o/w talc. clay	chl. qep abundant qe's	2	x	9	7
58 holes. 486 m	263		9000N.	6	9	o/w talc clay	sericitic silic silt st cl	1	x	8	7
	PTO										

11

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

11

8.10.91

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVR 264	9040E	9000N	T 9	12	chl br silc.	qcp ab. qe's	4	x	17	13
265		9040N	T 9	12	chl. gr silc.	qcp chl. ab. qe's	1	x	8	10
266		9080	T 9	12	chl br silc. + qfs	chl qcp ab. qe's	2	x	8	9
267		9120N	T 9	12	grey chl silc	chl qcp ab. qe's	2	x	8	6
268	Rd.	9160N	T 9	12	grey chl silc greenish clay	chl qcp. ab. qe's	4	x	7	4
269		9200N	T 9	12	grey to o/w talc clay + silc	sericitic siltst grey.	2	x	6	4
270		9240	T 9	12	grey silc. chl gr clay. qfs hem	grey sericitic siltst.	2	x	18	1
271		9280	T 9	12	brown chl clay + silc	chl qcp. ab. qe's	x	x	8	6
272		9320N	T 9	12 VH	o/w to brown chl. clay.	dk red to grey siltst.	1	x	27	1
273		360 ~~9400~~N	T 9	12	o/w to Kakhi chl clay	grey to red cl siltst.	1	5	24	1
274		9400	T 3.	6	Kahkhi clay - chl.	grey cl siltst.	1	x	13	2
275	9040E	9440N.	T 3	6	Kahki clay - chl.	grey - sericitic siltst cl.	1	x	10	2
276		9480	T 3	6	beige chl. clay.	beige siltst.	1	x	19	3
277		9520	T 3	6	gr chl. clay	grey cl siltst.	x	x	7	1
278		9560	T 6	9	beige chl. clay	beige cl siltst.	1	x	7	2
279		9600N	T 6	9	gr ch. Clay	dk red gw. cl.	1/x	11	8	2
280		9640N	T 6	6	gr chl. Clay. + qfz frags.	qfz + silc. NOB	1	x	11	8
281		9680	T 3	6	gr chl. clay	dk red siltst.	1	x	11	4
282		9720	T 6	9	beige chl clay.	dk red to grey cl gw	1	x	16	2
283		9760	T 6	9	greenish chl clay	beige cl gw.	1	x	13	2
284		9800	T 6	9	beige chl clay	beige cl br siltst.	1	x	11	1
285		9840	T 6	9	beige chl clay	beige cl siltst.		NR.		
286		9880	T 3	6	gr chl clay	beige cl siltst.	x	x	10	2
287		9920N	T 3	6	greenish chl clay	grey cl siltst.	x	x	5	2
288		9960	T 3	6	beige to green chl clay	grey cl br siltst.	1	x	3	2
IVR 289		10000N	T 3	6	greenish chl clay + qFs	green chl siltst. br + qfs	1	x	9	3

132 –

N to on bottom

201 –

~~228~~ –

234

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

234 — 8.10.91

315 —

2.30 PM ig out of diesel 9/10/91 last 7m of 304

? gravel?

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
IVR 290	8960E	10000N	T 6	9	beige chl clay.	grey to beige cl silt st.	x	x	8	2
291		9960	T 6	9	o/w talcose? clay + large qtz + beige chl clay	sericitic? grey cl br silt st.	x	x	6	1
292		9920	T 6	9	beige br chl. clay.	beige cl br silt st.	x	x	9	2
293		9880	T 6	9	beige to green chl clay + qtz frags	sericitic? silt st + qtz + hematite-q VH	x	x	29	1
294		9840 N	T 6	9	beige chl clay	grey br cl silt st	x	x	7	2
295		9800	T 6	9	gr. chl clay	grey br cl silt st.	x	x	7	2
296		9760	T 6	9	gr chl clay	dk red cl. silt st.	x	x	6	1
297		9720	T 6	9	beige to o/w chl/talc clay	dk red cl silt st.	x	x	5	2
298		9680N	T 6	9	beige to br. chl clay.	grey to red silt st.	x	x	8	1
299		9640	T 6	9	gr chl clay	sericitic? grey silt st	x	x	7	1
300		9600N	T 6	9	o/w to beige chl clay.	sericitic? grey cl silt st.	x	x	7	1
301		9560	T 6	9	beige chl. clay	grey to red silt st.	x	x	9	1
302		9520	T 3	6	green chl clay + silc.	red cl silt st.	1	x	7	5
303		9480	T 6	9	gr chl clay.	grey to red cl silt st.	x	x	9	2
304	(5m)	9440	T 5 SIL 3	12	Limonitic + sericitic?	Brown & white silst.	x	x	12	2
305		9400	T 4 SIL 4	9	Limonitic	Brown siltst + silcrete	x	2	18	2
306.		9360	T 6 SIL 2	9	Limonitic + sericitic	Brown & cream siltstone	x	x	22	3
307		9320	T 5 SIL 3	12	Talcose + some carbonate.	Grey (light) + dk br. SILTST.	x	x	76	3
308		9280	T 6 CLAY 4	12	Minor talc.	Light grey weath. soft QFP	x	x	11	14
309		9240	T 6 Clay 4	12	dk red br. foamy stringers + some talc.	Light grey + dk br. Silts Greywacke	x	x	11	3
310		9200	T 5 Clay 2/3	9	?	Light grey QFP + dk br. SILT.	1	x	18	6
311		9160	T 10	12	–	Light grey QFP minor Fe	x	x	4	6
312		9120	T 10	12	–	Light grey QFP	x	2	6	2
313		9080	T 10	12	–	Light grey QFP.	x	x	6	3
314		9040	T 7.5	12	–	Light green & grey QFP	3/4	x	6	10
315		9000	T 7	12	Limonitic –	Light brown & green QFP.	1	x	7	6
316	9 [illegible]	9,000	T 8	12	–	Pink & green QFP.	x	x	20	4

105 holes 147

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION: E 7445

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9020N.

HOLE Nº

RL COLLAR

INCLINATION −60°

DIRECTION GRID SOUTH

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
IAR 6					1		Red sand	
	1	x	10	9	2		red/brown gravel.	
7					3		clay-gravel	
	x	x	13	11	4		" "	
8					5		" "	
	x	x	13	11	6		" "	
9					7		" "	
	1	x	10	7	8		o/w cl br talcose siltst.	
10					9		" " " " " "	
	x	x	7	5	10		" " " " " "	
11					11		o/w talc. cl. br. siltst.	
	x	x	7	7	12		" " " " "	
12					13		o/w-greenish cl. br. siltst.	
	1	x	21	6	14		" " " " END POR	
							HOLE ABANDONED	

SCALE

SAMPLE Nos: IAR 06 – IAR 12

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED: 21/10/1991

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION: E 7445

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

R.L. COLLAR m

INCLINATION – 60°

DIRECTION GRID SOUTH

CO-ORDS 9440E 9040N.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
IAR. 13					1		Red sand.	
	x	x	11	14	2		gravel.	
14					3		brown gravel. BLADE POR.	
	1	x	11	16	4		" " Hammer.	
15					5		" "	
	x	x	12	11	6		" "	
16					7		" "	
	x	x	18	11	8		brown gravel.	
17					9		Silcrete	
	1	x	13	15	10		"	
18					11		"	
	1	x	10	10	12		"	
19					13		" + minor o/w siltst.	
	x	x	6	9	14		o/w cream talcose clay. grey br siltst.	
20					15		" " "	
	1	x	8	14	16.		" " "	
21					17		greenish cl. br. siltst. less talc.	
	x	x	6	5	19		" " " "	
22					19		" " " "	
	x	x	7	3	20		" " " "	
23					21		dk grey cl br. siltst. ~~shale~~. hem nodules.	
	2	x	14	8	22		" " " " " "	
24					23		dk grey-green cl br siltst. ~~shale~~ talcose clay?	
	1	x	6	6	24		" " " " "	
25					25		alt siltst + talcose clay.	
	x	x	3	6	26		massive talc alt.-clay. o/w.	
26					27		" " " " greenish white	

SCALE

SAMPLE Nos: IAR 13 – IAR 26.

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 21 / 10 / 91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION: I 7445

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9040N.

HOLE Nº

RL COLLAR m

INCLINATION −60°

DIRECTION Grid Stn.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
	x	x	5	8	28		Kakhi talc-chlorite clay. max.	
IAR 27					29		" " " "	
	x	x	3	8	30		" " " "	
28					31		" " " "	
	x	x	x	5	32		grey/beige talc-chl. clay.	
29					33		grey/beige " " "	
	x	x	5	6	34		grey/beige talcose-chl. clay.	
30					35		" " "	
	x	x	3	4	36		" "	
31					37		" " "	
	x	x	4	3	38		beige/grey talc-chl clay.	
32.					39		" " " "	
END.	x	x	4	4.	40		beige/grey talc-chl. clay & qfs	

SCALE

SAMPLE Nos: IAR 26 – IAR 32.

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED: 21/10/91

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION: E 7445

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9060N.

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION GRID SOUTH

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
IAR 33					1		red sand / gravel. Hammer.	1/2
	x	x	14	15	2		"	
34					3		"	
	1	x	13	12	4		"	
IAR 35					5		"	
	x	x	18	12	6		"	
36					7		Fg. gravel	
	1	x	22	14	8		" "	
37					9		'qe' gravel + clay.	
	x	x	12	14	10		qep. grey chl. clay abund. qes	
38					11		" " " " " "	
	2	x	8	12	12		" " " " " "	
39					13		qep cream chl? clay abundant qes	
	1	x	6	9	14		" " " " " "	
40					15		" cream to khaki " " "	
	x	x	11	10	16		" cream to khaki clay abund. qes	
41					17		qep cream to khaki clay abund. qes	
	x	x	13	8	18		" " " " " "	
42					19		" " " " " "	
	1	x	11	9	20		" " " " " "	
43					21		qep cr to khaki clay-chl abund. qes	
	x	x	7	8	22		" " " " "	
44					23		" " " " " "	
	x	x	4	11	24		" " " " " "	
45	x	x	4	10	25		qep " " " " " END	
END OF HOLE								

SCALE

SAMPLE Nos: IAR 33 - IAR 45

HOLE TARGET:

DRILL TYPE MOLE

DRILLER BALL

DRILLED 21/10/91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION: E 7445

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9080N

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		red sand gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		"	
					9		qep	
IAR 46	1	x	7	5	10		" POR Blade	
							HOLE ABANDONED.	

SCALE

SAMPLE Nos: IAR 46 -

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 21/10/91

LOGGED

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION: ...

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9180N.

HOLE N°

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		red sand/gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
IAR 47					8		qcp. abundant qcc. grey-green	
	x	x	26	12	9		" " " "	
48					10		" " " "	
	x	x	17	7	11		qcp	
49					12		"	
	x	x	24	5	13		"	
50					14		qcp	
	2	x	27	5	15		"	
51					16		"	
	1	x	21	6	17		"	
52					18		qcp	
	x	x	16	3	19		"	
53					20		"	
	x	x	33	5	21		"	
							END OF HOLE.	

SCALE

SAMPLE Nos: IAR 47 - IAR 53

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED: 21/10/1991

LOGGED

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION: L 7885

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9200N.

HOLE Nº

RL COLLAR m

INCLINATION Vert.

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		Silcrete	
					9		"	
					10		"	
					11		green clay	
					12		"	
					13		"	
					14		"	
					15		green clay	
					16		" "	
					17		" "	
					18		" "	
					19		" "	
					20		green clay	
					21		" "	
					22		" "	
					23		" "	
					24		" "	
					25		" "	
IAR 54	2	1	96	17	26		qcp. abundant qcé + green clay	
"	ENO				27		" " " " "	

SCALE

SAMPLE Nos: IAR 54 –

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 21/10/91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION E-14.4S

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9220N

HOLE Nº

RL COLLAR m

INCLINATION Vert.

DIRECTION

SAMPLE No	ASSAYS Au PPb	Bi PPm	Cu PPm	Pb PPm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		red sand / gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		"	
					9		"	
					10		"	
					11		"	
					12		"	
					13		"	
					14		"	
					15		greenish talcose clay.	
					16			
					17			
					18			
					19			
IAR. 55					20		qcp. abundant qcs green/brown Chl. clay	
"	x	x	29	6	21		" " " "	
56					22		" " " "	
"	x	x	18	6	23		" " " "	
57					24		" " " "	
"	x	x	14	6	25		" " " "	
58					26		" " " "	
"	x	x	8	7	27		" " " " END	

SCALE

SAMPLE Nos: IAR 55 – IAR 58.

HOLE TARGET:

DRILL TYPE:

DRILLER:

DRILLED: 21/10/1991

LOGGED:

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION: ... 7445 ...

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9240N

HOLE Nº

R.L. COLLAR m

INCLINATION Vert.

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		red sand / gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		"	
					9		Silcrete	
					10		"	
					11		Kaolinite clay.	
					12		"	
					13		"	
					14		"	
					15		"	
					16		"	
					17		"	
					18		"	
					19		"	
IAR 59	x	x	900	9	20		weathered siltst then st 1 qfs.	
"	END.				21		" " " "	

SCALE

SAMPLE Nos: IAR 59 ...

HOLE TARGET: ...

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED: 21/10/1991

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION: E 1445

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9460E 9260N

HOLE Nº

RL COLLAR m

INCLINATION VERTICAL

DIRECTION

SAMPLE No	ASSAYS			DEPTH Metres	LOG	DESCRIPTION	WATER
	SEE	PAGE	2.	1		red sand/gravel	
				2		"	
				3		"	
				4		"	
				5		"	
				6		"	
				7		"	
				8		"	
				9		"	
				10		gravel	
				11		green kakhi clay	
				12		"	
				13		"	
				14		"	
				15		"	
				16		"	
				17		"	
				18		"	
				19		"	
				20		"	
				21		"	
				22		"	
				23		"	
				24		"	
				25		"	
				26		"	
IAR. 60				27.		qep + greenish/brown chl. clay.	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 21/10/91

LOGGED

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION: ...

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9460E 9260N.

HOLE Nº

RL COLLAR m

INCLINATION

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
60	x	x	310	8	28		qep + gr/br. chl Clay	
IAR 61					29		" " " "	
"	x	x	160	13	30		" " " "	
							END - ABANDONED.	

SCALE

SAMPLE Nos: IAR 60 - 61

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED: 21/10/19 91

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9280N

HOLE Nº

RL COLLAR m

INCLINATION Vert.

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		gravel	
IAR 62					8		qep grey-gr cht clay gravel.	
	x	x	104	16	9		"	
63					10		"	
	x	x	130	20	11		"	
64					12		"	
	x	x	240	14	13		"	
65.					14		"	
"	1	x	92	5	15		beige talcose clay cl. siltst.	
66					16		" " " " " "	
"	1	x	170	3	17		" " " " " "	
67					18		" " " " " "	
"	x	x	215	14	19		" " " " " "	
"	END				20		" " " " " "	

SCALE

SAMPLE Nos: IAR 62 – IAR 67

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 21/10/19 91

LOGGED

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION: ...

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9300N.

HOLE Nº

RL COLLAR m

INCLINATION VERTICAL

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi. ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		beige talc clay + beige silt	
					7		" " " "	
					8		" " " "	
					9		" " " "	
					10		" " " "	
IAR 68					11		" " " "	
	x	x	130	44	12		" " " "	
							END - ABANDONED.	

SCALE

SAMPLE Nos: IAR68 -

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 21/10/91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION: L 7415

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9320N

HOLE Nº

RL COLLAR m

INCLINATION VERTICAL

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		"	
IAR					9		o/w talc clay qep.	
69					10		" " " "	
"	1	1	100	98	11		beige/dk purple clay tqes - chl qep.	
70					12		" " " " "	
"	x	x	235	12	13		" " " " "	
71					14		" " " " "	
"	x	x	150	54	15		" " " " "	
END	OF		HOLE					

SCALE

SAMPLE Nos: IAR 69 – IAR 71

HOLE TARGET:

DRILL TYPE: MOLE BALL

DRILLER:

DRILLED: 21/10/91

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION: E [illegible]

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9340N.

HOLE Nº

RL COLLAR m

INCLINATION Vert.

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1	1	gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		"	
					9		"	
					10		"	
					11		green clay + silcrete.	
					12		" "	
IAR 72					13		beige clay + o/w siltst.	
"	x	1	64	23	14		" " " " + calc-carb	
73					15		" " " " "	
"	1	7	140	48	16		" " " " "	
74					17		" " " " "	
END	2	5	360	50	18		dk red talcose clay - siltst + calc-carb.	

SCALE:

SAMPLE Nos: IAR 72 – IAR 74

HOLE TARGET:

DRILL TYPE Mole

DRILLER Ball

DRILLED 22/10/19 91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION E 6245

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9360N

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		beige chl clay dk red clbr silt st + qfs	
					7		" " " " "	
					8		" " " " "	
IAR 75					9		beige talcose clay dk red silts + carb.	
	1	x	165	88	10		" " " " "	
76					11		" " " "	
	2	x	220	95	12		" " " "	
77					13		" " " "	
	1	x	45	19	14		" " " "	
78					15		" " " "	
	x	x	112	14	16		" " " "	
79					17		" " " "	
"	x	x	150	13	18		talcose beige clay grey/red br. silt st	

SCALE

SAMPLE Nos: IAR 75 – IAR 79

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 22/10/1991

LOGGED

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9380N

HOLE Nº

RL COLLAR m

INCLINATION VERT.

DIRECTION

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		colluvium gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
IAR 80					7		talcose beige clay red siltst.	
	x	x	28	5	8		" " " " " "	
81					9		" " " " " " + Silc.	
	x	x	110	11	10			
82					11		talcose beige clay. mass. + siltst. V. soft	
	x	x	68	10	12		" " " " " "	
83					13		" " " " " "	
	x	x	72	8	14		" " " " " "	
84					15		talc dk red/purple clay mass. + q.st.	
	x	x	86	6	16		" " "	
85					17		" " "	
	x	x	94	7	18		" " "	
END OF HOLE.								

SCALE:

SAMPLE Nos: IAR 80 – IAR 85

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED: 22/10/91

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9440E 9400N

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		colluvium gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
IAR 86.					7		beige talc. clay + siltst.	
	x	x	54	5	8		beige talc clay red siltst, calc + qfs	
87					9		" "	
	x	x	54	4	10		" "	
88					11		" "	
	x	x	74	4	12		" "	
89					13		" "	
	1/2	52	104	3	14		" "	
					15		beige talcose clay + siltst.	

SCALE:

SAMPLE Nos: IAR 86 – IAR 89.

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED 22/10/19 91

LOGGED: MACKIE

5m @ 60° hammer POR Blade

20

PROJECT TENNANT CREEK

PROSPECT

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9170N.

HOLE Nº

RL COLLAR

INCLINATION Vert. °

DIRECTION →

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		red sand / gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		qcp. gr-grey cht. clay	
IAR 90					8		" " " "	
	×	×	44	17	9		"	
91					10		"	
"	×	×	29	8	11		"	
92					12			
"	×	×	35	7	13			
93					14			
"	×	×	34	4	15		qcp abundant qcs	
							END.	

SCALE

SAMPLE Nos: IAR90 – IAR93.

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 22/10/19 91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9,190N

HOLE Nº 1

RL COLLAR m

INCLINATION VERT.

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Colluvium gravel	
					2		"	
					3		"	
					4		Kaolin clay	
					5		" "	
					6		" "	
					7		qfr " Silcrete	
IAR 94					8		qcp greenish chl clay abund. qcs Silcrete	
	1	x	72	7	9		" "	
95					10		" "	
"	1	x	80	9	11		" "	
96					12		" "	
"	x	x	68	10	13		" "	
97					14		" "	
"	x	x	64	12	15		dk red qcp - contact?	
98					16		beige "	
"	x	x	58	5	17		" "	
"	END				18		greenish qcp abund. qcs c/w clay	

SCALE

SAMPLE Nos: IAR 94 – IAR 98.

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 22/10/91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION: . . . . . .

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9210N.

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		qc "	
					5		" "	
					6		" "	
					7		qcp. + silcrete c/w.	
					8		qcp + grey clay	
IAR 99	x	x	104	8	9		"	
					10		"	
100	1	x	118	11	11		"	
					12		"	
101	1	x	125	13	13		"	
					14		"	
102	x	x	185	13	15		green/brown clay qcp.	
					16		" " " "	
103	x	x	180	6	17		" " " "	
"					18		" " " "	

SCALE

SAMPLE Nos: IAR 99 – IAR 103

HOLE TARGET: . . . . . .

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED: 22/10/19

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9300N.

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		qe gravel	
					8		" "	
IAR 104	.				9		qep greenish clay.	
	x	x	170	16	10		" " "	
105					11		"	
	1	x	210	22	12		"	
106					13		"	
	x	x	245	23	14		"	
107					15		"	
	x	x	215	21	16		"	
108.					17		"	
	x	x	300	92	18		qep. Kahki clay.	

SCALE:

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 22/10/91

LOGGED

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9320N

HOLE Nº

RL COLLAR m

INCLINATION VERT.

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm.	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		beige clay grey silt st.	
IAR 109.	1	x	200	40	9		" " " "	
					10		o/w clay qcp. abund qcs	
110	x	x	145	30	11		" " " "	
					12		beige cht. clay qcp ab. qcs	
111	x	x	135	37	13		" " " "	
"					14		" " " "	
"					15		beige cht clay qcp. abund. qcs	

SCALE -

SAMPLE Nos: IAR 109 - IAR 111

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 22/1/19 91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9340N.

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel.	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		"	
					9		"	
					10		"	
					11		beige talc clay red silt st	
					12		beige talc clay red cl. silt st.	
					13		"	
					14		"	
					15		"	
IAR 112					16		"	
	×	×	84	96	17		grey talc/chl clay br cl silt st + hem st.	
113					18.		" " "	
	2	×	820	235	19		" " "	
114					20		beige talc clay br. cl. silt st + hem st	
	1	×	140	17	21		" " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE HOLE

DRILLER: BALL

DRILLED: 22/10/1991

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT Iwanhoe.

LOCATION: . . . . . .

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9360N.

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel.	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		"	
					8		"	
					9		beige talcose clay dk red silt st + calc.	
IAR 115					10		" " " " "	
	2	x	170	66	11		" " " " "	
116					12		" " " " "	
	1	x	135	78	13		" " " " "	
117					14		" " " " "	
	1	x	200	220	15		" " " " "	

SCALE

SAMPLE Nos: IAR 115 – IAR 117

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 22/10/1991

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION: . . . . . .

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9380N

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		beige/blc clay dk red silt st calc.	
IAR					8		" " "	
118					9		" " "	
"	x	x	92	9	10		" " "	
119					11		" " "	
"	x	x	80	8	12		" " "	

SCALE

SAMPLE Nos: IAR 118 – IAR 119

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED: 22/10/19

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT Idanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9520E 9400N

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		beige talcose clay dk red siltst	
					8		" " " " "	
					9		" " " " "	
IAR 120					10			
	1	1	90	6	11		mass. dk red talc clay + siltst	
121					12		" " " " "	
	x	x	96	4	13		" " "	
122					14		" " "	
	x	x	92	3	15		" " "	
123					16		" " "	
					17		" " "	
	x	x	110	3	18		mass dk red talc clay + siltst.	

SCALE

SAMPLE Nos: IAR 120 – IAR 123

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 27/10/1991

LOGGED HACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9600E 9360N.

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		o/c clay	
					8		"	
					9		beige talc clay + red siltst.	
IAR 124					10		"	
	1	3	110	27	11		"	
125					12		"	
	x	x	120	40	13		"	
126					14		"	
	x	x	180	106	15		beige talcose clay - dk red siltst hem st	
							END OF HOLE.	

SCALE

SAMPLE Nos: IAR 124 – IAR 126

HOLE TARGET:

DRILL TYPE MOLE

DRILLER BALL

DRILLED 22/10/91

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9600E 9380N

HOLE Nº

RL COLLAR m

INCLINATION VERT.

DIRECTION

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		beige talcose clay dk red cl siltst + silc.	
					8		" " " " "	
					9		" " " " "	
IAR. 127	x	x	102	13	10		" " " " "	
					11		" " " " "	
128	2	x	94	38	12		" " " " "	
					13		" " " " "	
129.	4	x	410	350	14		Very dk purple siltst talcose alt hem st + carb.	
					15		" " " " " " + carb	
130	4	x	620	600	16		" " " " " " + carb	
					17		" " " " " " + carb	
131	7/10	x	730	235	18		" " " " " "	
					19		" " " " " "	
132	41/64	x	1,500	106	20		" " " " " "	
					21		" " " " " "	
133	18/24	x	780	125	22		" " " " " "	
					23		" " "	
134	24/17	x	1,950	680	24		Steel grey talc-chl clay then st + cl siltst	
					25		freshes chl green black siltst + talc clay	
135	9/13	3	1,800	660	26		" " " " " "	
					27		" " " " " END.	

SCALE

SAMPLE Nos: IAR 127 – IAR 135.

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED 22/10/19 91

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT

LOCATION: . . . . . .

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº.

CO-ORDS 9600E 9400N.

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		beige loose clay & cl silt st.	
					8		" " "	
IJA 136					9		" " "	
	1	×	195	29	10		" " "	
137.					11		" " "	
	1	×	175	29	12		" " "	
							END.	

SCALE -

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 22/10/1991

LOGGED MACKIE

PROJECT TENNANT CREEK

PROSPECT

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9600E 9420N.

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi. ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		Kakhi clay.	
					8		beige talcose clay + dk red siltst.	
					9		"	
IAR. 138					10		"	
	Y	x	74	7	11		"	
139					12		"	
	x	x	72	6	13		"	
140					14		"	
	x	x	45	5	15		massive beige chl/talc clay + siltst.	

SCALE

SAMPLE Nos: IAR 138 – IAR 140

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 22/10/19 91

LOGGED

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION: . . . . . .

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9600E 9440N

HOLE Nº

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		beige clay + calc.	
					7		" " "	
					8		" " "	
					9		beige clay + siltst + silc? calc? talc.	
					10		" " " " "	
					11		" " " " "	
IAR 141					12		beige clay + siltst + calc.	
	x	x	14	3	13			
142					14			
	x	1	60	3	15		beige talc clay, ch br siltst calc? hem st.	
							END.	

SCALE

SAMPLE Nos: IAR 141 – IAR 142

HOLE TARGET: . . . . . .

DRILL TYPE: MOLE

DRILLER: BALL

DRILLED: 22/10/79

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9600E 9460N

HOLE Nº

RL COLLAR

INCLINATION VERT m

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		"	
					7		beige talcose clay. cl br silt st. + calc	
					8		" " " "	
					9		" " " "	
					10		" " " " "	
					11		" " " " "	
IAR. 143					12		" " " " "	
	1	70	120	20	13		beige talcose clay " " "	
144					14		" " "	
	x	6	58	5	15		" " " cl br silt st.	

SCALE

SAMPLE Nos: IAR 143 – IAR 144

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED 22/10/19

LOGGED: MACKIE

PROJECT TENNANT CREEK

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

PROSPECT Ivanhoe.

LOCATION:

CO-ORDS 9600E 9480N.

RL COLLAR m

INCLINATION VERT

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		clay	
					4		"	
					5		"	
					6		"	
					7		slightly talcose beige clay + cl to silt st.	
					8		" " "	
					9		" " "	
					10		" " "	
					11		" " "	
IAR 145					12		" " "	
	x	1	11	4	13		" " "	
146					14		" " "	
	x	2	10	3	15		" " "	

SCALE 1

SAMPLE Nos: IAR 145 – IAR 146

HOLE TARGET:

DRILL TYPE HOLE BALL

DRILLER

DRILLED 22/10/19 91

LOGGED MACKIE

PROJECT

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

RL COLLAR m

INCLINATION VERT.

DIRECTION

CO-ORDS 9920E 9320N.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		Kakhi qe clay.	
					6		"	
					7		"	
					8			
					9		grey-green qep.	
					10		Kakhi green chl clay qep.	
					11		" " " " "	
					12		" " " " "	
					13		" " " " "	
					14		" " " " "	
					15		" " " " "	
IAR 147					16		grey green kakhi clay qep.	
	1	x	16	14	17		" " " " "	
148					18		" " " " "	
	x	x	22	22	19		" " " " "	
149.					20		" " " " "	
	1	2	26	27	21		" " " " "	

SCALE

SAMPLE Nos: IAR 147 – IAR 149

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED: 22/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9340N

HOLE N°

RL COLLAR

INCLINATION VERT.

DIRECTION

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
					6		grey-o/w qcp gravel.	
					7		beige talcose clay qcp	
					8		" " "	
					9		" " "	
IAR 150.					10	A	Kahki/brown talcose clay qcp.	
	1	x	68	23	11	A	" " " " "	
151					12	A	" " " " "	
	x	1	82	31	13	A	" " " " "	
152					14	A	" " " " "	
	x	x	116	39	15	A	" " " " "	
153					16	A	beige/brown talcose clay qcp.	
	x	x	56	27	17	A	" " " " "	
154					18	A	" " " " "	
	1	x	100	62	19	A	"	
155					20	A	" " " " "	
	x	x	58	25	21	A	" " " "	
							END.	

SCALE

SAMPLE Nos: IAR 150 – IAR 155.

HOLE TARGET:

DRILL TYPE HOLE

DRILLER BALL

DRILLED 22/10/91

LOGGED

PROJECT

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

PROSPECT Ivanhoe.

LOCATION

CO-ORDS 9920E 9360N

RL COLLAR m

INCLINATION VERT.

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel.	
					2		"	
					3		"	
					4		"	
					5		Yellow clay + sericite silt st frags	
					6		"	
					7		"	
					8		"	
					9		dk purple silt st gravel ?	
					10		green/brown chl. qep.	
IAR 156					11		"	
	1	2	60	1,600	12		"	
157					13		"	
	x	x	60	180	14		"	
158					15		green/br. clay qf's 1 qep. ab. qe's	
	x	x	27	74	16		" " " " "	
159					17		" " " " "	
	x	x	33	64	18		brown/black clay talcose qep + hem st. qfs.	
160					19		" " " "	
					20		" " " "	
	1	3	50	420	21		jasper siltst.? hem st., qe's qfs. talcose clay	
							END OF HOLE	

SCALE

SAMPLE Nos: IAR 156 – IAR 160

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 22/10/91

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9380N.

HOLE N° 39

RL COLLAR m

INCLINATION -60°

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
					5		"	
IAR.					6		beige talcose clay-siltst + calc.	
161	1	x	90	26	7		" " " " "	
					8		" " " " "	
162	x	x	92	21	9		" " " " "	
					10		" " " " "	
163	x	x	86	13	11		" " " " "	
					12		beige talcose clay + cl br siltst.	
164	x	x	52	20	13		" " " " " "	
					14		" " " " " "	
165	x	x	100	94	15		" " " " " "	
					16		" " " " " "	
166	x	x	130	130	17		" " " " " "	
					18		" " " " " "	
167	x	x	120	33	19		" " " " " "	
					20		" " " " " "	
168	x	x	70	18	21		" " " " " "	
					22		" " " " " "	
169	x	2	36	13	23		" " " " " "	
					24		" " " " " "	
170	x	x	72	45	25		" " " " " "	
					26		" " " " " "	
171	x	x	38	32	27		beige talc clay + siltst + qtz	

SCALE

SAMPLE Nos: IAR. 161 - IAR. 171.

HOLE TARGET:

DRILL TYPE

DRILLER BALL

DRILLED 23/10/91

LOGGED: MACKIE

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9380N

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION Grid SK.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					28		beige talcose clay + siltst.	
IAR 172	x	x	62	26	29		" " " "	
					30		" " " "	
173	x	x	42	10	31		" " " "	
					32		" " " "	
174	x	x	135	26	33		dk brown/black ferr. talc clay	
					34		" " " " " "	
175	x	x	135	90	35		beige talc clay beige/green cl br. siltst.	
					36		" " " " " " "	
176	1	x	35	11	37		" " " " " " "	
					38		" " " " " " "	
177	x	x	23	9	39		" " " " " " "	
					40		" " " " " " "	
							END.	

SCALE

SAMPLE Nos: IAR 172 – IAR 177.

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/91

LOGGED

PAGE 2 OF 2.

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9400N

HOLE N°

RL COLLAR

INCLINATION -60°

DIRECTION Grid S.

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		"	
IAR					5		greenish clay + silc. + brown siltst.	
178					6		" "	
	x	x	47	104	7		" "	
179					8		" "	
	x	x	40	98	9		" "	
180					10		" "	
	x	x	31	106	11		grey/green talcose clay + cl. siltst. o/w brown sericite?	
181					12		" " " " "	
	x	x	64	116	13		" " " " "	
182					14		" " " " "	
	x	x	62	94	15		" " " " " " + qfs.	
183					16		" " " " " "	
	x	x	30	45	17		beige talcose? clay red cl. silt st	
184					18		" " " " " "	
	x	x	25	52	19		" " " " " "	
185					20		" " " " " "	
	x	x	25	36	21		green/Kahki talc clay brown siltst.	
186					22		beige talcose clay red siltst.	
	x	x	39	16	23		" " " dk red cl. siltst	
187					24		" " " " "	
	x	x	48	47	25		" " " " "	
188					26		" " " " "	
	x	x	48	25	27		" " " " "	

SCALE

SAMPLE Nos: IAR 178 – IAR 188

HOLE TARGET:

DRILL TYPE HOLE

DRILLER

DRILLED 23/10/19 91

LOGGED

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9400N.

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION Grid SW

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
IAR 189					28		beige talcose clay red cl br silt st + hem st	
	x	x	47	15	29		" " " " " " "	
190					30		" " " " " " "	
	x	x	108	49	31		" " " " " " "	
191					32		beige talcose clay red cl br silt st. + hem st	
	1	x	68	25	33		" " " " " " " " "	
192					34		" " " " " " " " "	
	x	1	94	12	35		" " " " " " " hem. st.	
193					36		beige talcose clay dk red cl. br. silt st + hem st.	
	1	12	200	19	37		" " " " " " " "	
194					38		" " " " " " " "	
	x	2	150	13	39		" " " " " " " "	
195					40		" " " " " " " "	
	1	x	195	62	41		" " " " " " " "	

SCALE

SAMPLE Nos: IAR 189 – IAR 195.

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/19 91

LOGGED

PROJECT TENNANT CREEK

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9420N

HOLE N°

RL COLLAR m

INCLINATION -60°

DIRECTION Grid SE

SAMPLE No	ASSAYS Au PPb	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		green/Kakhi clay + brown-o/w silt st.	
					4		" " " " "	
					5		greenish talc clay-o/w/br cl silt st + Calc.	
					6		" " " " " "	
					7		" " " " " "	
IAR 196					8		" " " " " "	
	1	1	82	6	9		" " " " " "	
197					10		beige talc. clay brown/beige banded silt st.	
	x	x	102	4	11		" " " " " " "	
198.					12		greenish Clay talc. brown cl br. silt st.	
	x	3	175	5	13		" " " " " "	
199					14		" " " " " "	
	x	x	155	4	15		" " " " " "	
200					16		beige talc clay dk red silt st.	
	x	5	104	3	17		" " " " " "	
201					18		beige talc clay dk red cl. br. silt st.	
	x	x	62	3	19		" " " " " " " " "	
202					20		dk red talc? clay. dk red silt st, hem st.	
	x	x	80	4	21		" " " " " " "	
203					22		Kahki talc clay brown silt st.	
	2	x	114	3	23		" " " " " "	
204					24		dk red talc clay - dk red br cl silt st hem st.	
	x	x	110	4	25		" " " " " " " "	
205					26		Kakhi talc clay dk red silt st. + carb st.	
	x	x	225	39	27.		" " " " " " "	

SCALE

SAMPLE Nos: IAR 196 - IAR 205

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/15

LOGGED

SHEET 1 OF 2

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9420N.

HOLE N° .

RL COLLAR m

INCLINATION – 60°

DIRECTION S/ch 8th

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
206					28		beige talcose clay, dk red siltst.	
TAR	2	x	140	8	29		" " " " "	
207					30	A	dk brown talcose clay-br siltst, hem st + carb st.	
	1	x	260	185	31	A	" " " " " "	
208					32	A	" " " " " > more carb st.	
	2/3	49	540	2,650	33	A	dk br/black talcose clay-siltst, hem, carb, qfs	
209					34	A	black " " " " " "	
	1	x	480	490	35	A	" " " " " " "	
210					36	A	" " " " " " "	
	4	x	880	3,800	37	A	dk green talc clay- " " " "	
211					38	A	blue/gr talc/chl clay + siltst (fresher)	
	5/6	x	760	2,850	39	A	" " " " " "	
212					40		" " " " " (fresher)	
	1	x	450	5,200	41		dk brown talc./chl clay + beige siltst + hem.	
							END.	

SCALE

SAMPLE Nos: TAR 206 – TAR 212

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/19 91

LOGGED

SHEET 2 OF 2

PROJECT TENNANT CREEK

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9440N

HOLE No.

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth

SAMPLE No	ASSAYS				DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		greenish clay siltst.	
					4		" " "	
IAR					5		" " "	
213					6		beige talc clay-silt + carb	
	x	x	39	74	7		" " " " " "	
214					8		beige talc clay - siltst + carb.	
	x	x	21	28	9		" " " " " "	
215					10		" " " " qtz	
	1	x	36	17	11		" " " " " + carb	
216					12		" " " " " "	
	1	x	38	9	13		" " " " " "	
217					14		" " " " " "	
	1	x	108	9	15		" " " " " "	
218					16		beige chl/talc clay - dk red siltst.	
	x	x	104	9	17		" " " " "	
219					18		" " " " "	
	1	x	56	5	19		" " " " "	
220					20		grey talc clay + siltst.	
	x	x	43	3	21	A	brown talc clay + siltst.	
221					22		brown talc clay + brown/beige siltst thins	
	x	x	47	5	23		" " " " " " "	
222					24		" " " " " " "	
	2	x	29	3	25		" " " " " " "	
223					26		" " " " " " "	
	1	x	28	5	27		" " " " " " "	

SCALE

SAMPLE Nos: IAR 213 - IAR 223.

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/19

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 9920E 9440N.

HOLE N°

RL COLLAR

INCLINATION −60°

DIRECTION Grid Sth.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
224					28		brown/green talc. clay beige silt st.	
	2	x	21	3	29		" " " " " "	
225					30		beige talc clay beige cl/br silt st.	
	3	x	42	6	31		" " " " " " " "	
226					32		" " " " " " " "	
					33		" " " " " " " "	
	1	x	54	5	34		" " " " " " " " Too Hard.	

SCALE

SAMPLE Nos: IAR 224 – IAR 226

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/19

LOGGED 91

PAGE 2 OF 2.

PROJECT TENNANT CREEK

PROSPECT IVANHOE.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9340N.

HOLE Nº

RL COLLAR

INCLINATION −60° m

DIRECTION Grid St

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel	
					2		"	
					3		"	
					4		beige chl. siltst.	
227					5		grey/green chl/talc clay + siltst	
	×	×	15	9	6		" " " "	
228					7		" " " "	
	×	×	12	11	8	A	grey/green/dk brown talc chl clay + hem silt	
229.					9	A	black grey hem. silt st + talc clay	
	×	×	17	13	10	A	" " " " "	
230					11	A	steel grey chl clay + siltst.	
	×	×	10	12	12	A	" " " " " "	
231					13	A	" " " " " "	
	×	×	9	11	14	A	" " " " " "	
232.					15	A	" " " " " "	
	×	×	3	13	16	A	" " " " " "	
233					17	A	dk grey/black chl. clay + hem (in mic)	
	×	2	4	28	18		" " " " hem gr.	
234					19		" " " " hem gr.	
	×	×	3	18	20		" " " " hem grains	
235					21		" " " " hem grains.	
	×	×	3	9	22		grey talcose clay.	
236					23		" " "	
	1	×	3	11	24		" " "	
237					25		" " "	
	2	×	4	8	26		" " "	
238					27		" " "	

SCALE

SAMPLE Nos: IAR 227 – IAR 238.

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED: / /19

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9340E

HOLE Nº

RL COLLAR m

INCLINATION 60°

DIRECTION GRID SOUTH

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
	1	x	2	11	28		grey - talcose clay.	
239					29		" " " odd hem. grain.	
	2	1	3	19	30		" " " "	
240					31		" " " "	
	x	x	3	15	32		" " " "	
241					33		" " " "	
	2	x	13	10	34		beige chl clay + siltst beige.	
242					35		" " " "	
	1	x	32	6	36		"	
243					37		"	
	x	x	17	4	38		"	
244					39		"	
	x	1	20	7	40		"	
245	NOT RECIEVED				41		"	

SCALE

SAMPLE Nos: IAR 239 – IAR 245

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/19

LOGGED

PAGE 2 OF 2.

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9360N

HOLE N°

RL COLLAR m

INCLINATION 60°

DIRECTION Grid South

SAMPLE No	ASSAYS Au ppb	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel	
					2		"	
					3		"	
					4		"	
246					5		o/w talc clay + grey siltst.	
	x	x	4	6	6		" " " " "	
247					7		" " "	
	x	x	5	9	8		"	
248					9		"	
	x	x	8	6	10		"	
249					11		beige talcose clay grey/br siltst + qf/hem st	
	x	x	8	4	12		cr/yellow clay + siltst.	
250					13		o/w talcose clay beige siltst	
	x	x	13	4	14		"	
251					15		"	
	x	x	4	5	16		o/w to beige talcose clay + siltst.	
252					17		" "	
	x	x	12	4	18		" "	
253					19		" "	
	2	x	6	5	20		" "	
254					21		" "	
	x	x	5	9	22		" "	
255					23		" "	
	x	x	5	11	24	A	Very dk grey hematite siltst. talc clay	
256					25	A	Very dark grey hematitre siltst. talc 30%	
	1	1	4	6	26	A	" " " " " " "	
257					27		grey clay beige siltst + hem nods + st.	

SCALE

SAMPLE Nos: IAR 246 – IAR 257

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED: 23 / 10 / 1991

LOGGED

PROJECT

PROSPECT Ivanhoe,

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9360N.

HOLE N°

RL COLLAR m

INCLINATION -60°

DIRECTION GRID SOUTH

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm.	DEPTH Metres	LOG	DESCRIPTION	WATER
IAR	3	x	3	10	28		o/w - grey chl.? clay + beige siltst + hem st	
258					29		grey talc clay sericitic? siltst + hem st.	
	x	1	6	25	30		" " " " " " "	
259					31		" " " " " " "	
	x	x	3	19	32		" " " " " " hem st	
260					33		" " " " " " "	
	x	x	3	16	34		" " " " " " "	
261					35		" " " " " " "	
	x	x	4	14	36		" " " " " " "	
262					37		" " " " " " "	
	x	x	4	14	38		" " " " " " "	
263					39		" " " " " " "	
	3	x	4	16	40		" " " " " " "	
					41		grey talc clay sericitic siltst + hem st.	
							END.	

SCALE

SAMPLE Nos: IAR 258 – IAR 264

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9380N.

HOLE N°

RL COLLAR m

INCLINATION -60

DIRECTION GRID SOUTH

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel	
					2		qtz " very large frags +25mm	
					3		qtz "	
					4		" "	
					5		" "	
					6		" "	
IAR. 264	x	x	7	15	7		o/w clay + silc qes - qep. + qfs	
					8		" " " " " "	
265	x	x	7	13	9		" " " " " "	
					10		" " " " " "	
266	x	2	17	17	11		" " " " " "	
					12		" " " " " "	
267	x	x	18	11	13		" " " " " "	
					14		beige / dk red cht? clay + qes - qep br	
268	x	x	17	10	15		" " " " " qfs	
					16		" " " " " qfs	
269	x	1	14	13	17		" " " " " "	
					18		" " " " " "	
270	x	x	20	17	19		" " " " " "	
					20		" " " " " "	
271	x	x	23	29	21		beige clay cht red qep + qfs + abund. qes	
					22		" " " " " " "	
272	x	1	23	27	23		" " " " " " "	
					24		" " " " " " "	
273	x	x	28	31	25		" " " " " " "	
					26		" " " " " " "	
274	x	x	35	39	27		" " " " " " "	

SCALE

SAMPLE Nos: IAR 264 - IAR 274

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/19

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9380N

HOLE Nº

RL COLLAR m

INCLINATION -60

DIRECTION Grid Sth

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
IAR					28		gr/brown talc/chl clay + lor qep + qfs + hem ct.	
275	1	x	42	56	29		" " " " " " "	
					30		" " " " " " "	
276	x	x	40	70	31		gr/grey chl clay + qep + qfs hem nods	
					32		" " " " "	
277	x	x	39	79	33		" " " " "	
					34		" " " " "	
278	x	x	38	78	35		" " " " "	
					36		" " " " "	
279	x	x	39	68	37		" " " " "	
					38		" " " " "	
280	x	x	27	52	39		o/w chl clay qep + large qfs hem. nods.	

SCALE

SAMPLE Nos: IAR 275 – IAR 280

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 23/10/19 91

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE N°

RL COLLAR m

INCLINATION -60

DIRECTION Grid SW

CO-ORDS 10480E 9620N

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel	
					2		"	
IAR					3		"	
281					4		brown siltst.	
	1	x	x	2	5		" "	
282					6		beige clay, red siltst + calc.	
	1	x	x	3	7		" " " " "	
283					8		" " " " "	
	x	x	x	2	9		" " " " "	
284					10		" " " " "	
	x	x	x	2	11		" " " " "	
285					12		" " " " "	
	x	x	x	2	13		" " " " "	
286					14		beige clay red siltst, calc, qfs	
	1	x	x	2	15		" " " " " "	
287					16		greenish/brown talcose? clay + br. siltst	
	1	x	1	2	17		" " " " " "	
288					18		" " " " " rqfs	
	1	x	1	2	19		" " " " " "	
289					20		" " " " " "	
	x	x	x	2	21		" " " " " "	
290	x	x	x	1	22		" " " " " "	
	END				23		dk red cl br siltstone	

SCALE

SAMPLE Nos: IAR 281 – IAR 290

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 24/10/91

LOGGED

291

54

PROJECT

PROSPECT Ivanhoe.

LOCATION: . . . . . .

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE N°

R.L. COLLAR

INCLINATION -60°

DIRECTION Grid SE

CO-ORDS 10480E 9640N

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel	
					2		beige siltst.	
					3		" "	
					4		" "	
TAR					5		" "	
291					6		beige br cl siltst + large qfs	
	1	x	x	2	7		" " " " " "	
292					8		beige talcose? clay + beige cl. br siltst	
	x	x	x	2	9		" " " " " "	
293					10		" " " " " "	
	x	x	x	2	11		" " " " " "	
294					12		Brown/beige talc clay? br cl siltst.	
	1	x	x	1	13		" " " " " " "	
295					14		" " " " " " "	
	1	x	x	2	15		" " " " " " "	
296					16		" " " " " " "	
	x	x	x	2	17		beige/brown cl br siltst.	
297					18		" " " " "	
	x	x	2	2	19		" " " " "	
298					20		" " " " "	
	x	x	2	2	21		" " " " "	
299					22		beige talc? clay + cl br. siltst.	
	x	x	1	2	23		" " " " "	
300					24		" " " " "	
	1	x	1	2	25		beige clay beige/red cl br siltst.	
301					26		" " " " " " "	
	1	x	x	x	27		" " " " " " "	

SCALE

SAMPLE Nos: . . . . . – . . . . . .

HOLE TARGET: . . . . . .

DRILL TYPE

DRILLER

DRILLED 24/10/91

LOGGED

PROJECT

PROSPECT

LOCATION: Ivanhoe.

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth.

CO-ORDS 10480E 9640N

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
302					28		" " " " " " "	
	1	x	3	2	29		gr/brown clay brown cl br. siltst.	
303					30		" " " " "	
	1	x	5	2	31		" " " " "	
304					32		Khki: chl? clay brown cl br siltst.	
	x	x	4	2	33		" " " " " " "	
305					34		" " " " " " "	
	1	1'	2	2	35		" " " " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 24/10/19 91

LOGGED

PAGE 2 OF 2

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9660N

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION Grid SK

SAMPLE No	ASSAYS Au ppb	Ni ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Gravel	
					2		beige siltst.	
TAR					3			
306					4		beige siltst + qtz.	
	1	x	1	1	5		" " " cream talc. clay	
307					6		beige clay beige cl. br. siltst.	
	x	x	5	1	7		" " " " " "	
308					8		" " " " " "	
	1	x	6	1	9		" " " " " "	
309					10		" " " " " "	
	1	x	9	2	11		brown/green talc. clay beige cl. br. siltst	
310					12		" " " " " " "	
	1	x	3	x	13		" " " " " " "	
311					14		brown/gr. talc clay - br cl siltst.	
	1	x	2	1	15		" " " " "	
312					16		b/gr clay beige br cl siltst.	
	1	x	x	1	17		" " " " " "	
313					18		" " " " " "	
	1	x	x	x	19		" " " " " "	
314					20		" " " " " "	
	x	x	x	1	21		" " " " " "	
315					22		greenish clay beige cl br siltst.	
	1	1	2	2	23		grey/green cl. siltst (fresh)	
316					24		" " " " " beige clay	
	x	x	1	2	25		" " " " " " "	
317					26		" " " " " " "	
	x	2	x	1	27		" " " " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 24/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9660N

HOLE Nº

RL COLLAR m

INCLINATION -60

DIRECTION Grid SE

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
318.					28		brown grey beige grey silt & qtz chl.	
	x	x	1	4	29		" " " " " - Chl	
319	x	x	x	x	30		" " " " " Too Hard/no recovery	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE

DRILLER

DRILLED 24/10/89

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9680N

HOLE N°

R.L. COLLAR m

INCLINATION −60°

DIRECTION Grid Sth.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel - quartz	
					2		" + siltst	
IAR.					3		" + siltst.	
320					4		greenish clay chl. br siltst. cl.	
	1	x	3	1	5		" " beige/brown siltst.	
321					6		" " " " "	
	1	x	1	x	7		" " " " "	
322					8		beige talc? clay beige siltst	
	x	1	x	x	9		" " " " "	
323					10		gr/br clay. cl br beige siltst.	
	x	1	x	x	11		" " " " "	
324					12		" " " " "	
	x	x	x	x	13		" " " " "	
325					14		" " " " "	
	x	x	x	1	15		gr/br talc clay. beige siltst + qtz them st.	
326					16		" " " " " qtz them st.	
	x	1	x	2	17		" " " " " qtz them st.	
327					18		br/grey clay beige brown cl br siltst	
	1	x	x	1	19		" " " " " "	
328					20		beige clay + beige/br cl. br siltst.	
	1	x	x	1	21		" " " " " "	
329					22		" " " " " " + Carb. st	
	x	x	x	x	23		" " " " " + Carb. st.	
330					24		" " " " "	
	1	x	x	x	25		" " " " "	
331					26		beige clay dk red cl br silt st.	
	x	x	x	x	27		" " " " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED

LOGGED 24/10/19 91

PROJECT

PROSPECT Ivanhoe

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9680N.

HOLE N°

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth

SAMPLE No	ASSAYS Au ppb	Pt ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
332					28		beige clay beige/red cl br. siltst	
	1	1	x	x	29		" - " - . .	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 24/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10480E 9700N

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION Grid SE

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel - qtz.	
					2		qtz gravel + siltst.	
					3		beige siltst large qfs	
333					4		cr/br clay beige cl. br siltst.	
	1	x	1	x	5		" " " " " "	
334					6		" " " " " "	
	x	x	x	x	7		" " " " " "	
335					8		" " " " " "	
	1	x	2	x	9		" " " " " "	
336					10		" " " " " "	
	1	x	x	2	11		" " " " " "	
337					12		beige clay + beige/br cl br siltst. qfs then	
	1	2	4	3	13		gr/br clay " " " + qfs then st.	
338					14		beige/br clay beige siltst. cl br.	
	2	x	x	1	15		" " " " "	
339					16		beige/grey clay + beige cl br siltst + qfs	
	1	x	2	1	17		" " " " " " " "	
340					18		" " " " " " " "	
	1	x	2	2	19		" " " " " " " "	
341					20		br/beige clay br cl. beige br siltst.	
	1	x	2	1	21		" " " " " " " "	
342					22		" " " " " " " "	
					23		gr/beige clay br. cl. beige br. siltst	
	x	1	1	1	24		" " " " " " " "	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE

DRILLER

DRILLED 24/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10560E 9900N

HOLE Nº

RL COLLAR m

INCLINATION −60°

DIRECTION Grid SK

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		brown siltst	
					2		" "	
					3		" "	
LAR. 343	×	1	×	2	4			
					5		beige/br clay talc? + siltst. cl br.	
344	×	1	×	2	6		" " " " " "	
					7		" " " " " "	
345	×	1	4	×	8		" " " " " "	
					9		" " " " " "	
346	×	×	5	×	10		" " " " " "	
					11		" " " " " "	
347	×	15	43	2	12		beige clay beige/br cl. br siltst.	
					13	A	grey/brown talc clay + siltst + jasper frags	
348	1	4	32	6	14	A	dk grey clay-talc + siltst.	
					15	A	" " " " "	
349	×	1	11	1	16	A	" " " " "	
					17	A.	gr/grey talcose clay + siltst.	
350	1	1	42	6	18	A	" " " "	
					19	A	dk brown chl clay + siltst.	
351					20	A	brown/grey chl clay + green/beige siltst	
	1	×	15	3	21		grey/gr. clay beige/green cl br. siltst.	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 24 / 10 / 19 91

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10560E 9920N

HOLE N° IVR

RL COLLAR m

INCLINATION −60°

DIRECTION Grid St

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		red siltst.	
					2		beige siltst.	
JAR 352					3		purple siltst to quartz frags-large.	
	x	11	42	2	4	A	dk purple hematitic siltst. 15% hem.	
353					5	A	" " " " " vs heavy 10%	
	1	13	110	2	6	A	" " " " " " " 10% ?	
354					7	A	" " " " " " " tqfs	
	2	940	180	45	8	A	dk grey/black talcose clay + hem. siltst.	
355					9	A	" " " " " " "	
	x	30	41	4	10	A	beige clay-talc brown siltst + large qfs	
356					11	A	green clay - brown cl/br siltst. + large qfs	
	1	20	34	4	12	A	" " " " " "	
357					13	A	grey/gr clay beige/gr siltst.	
	x	9	58	1	14	A	" " " " "	
358					15	A	" " " " "	
	1	3	1	x	16	A	" " " " "	
359					17	A	" " " " "	
	x	2	x	x	18	A	" " " " "	
360					19	A	green chl/talc clay beige br cl. siltst.	
	1	2	37	x	20	A	" " " " " "	
361					21	A	" " " " " + qt st.	
	1	4	42	4	22	A	" " " " " " "	
362					23	A	" " " " " " "	
	x	5	245	7	24	A	dk grey/black talc clay + hem siltst	
363					25	A	" " " " " "	
too hard	1	4	70	5	26	A	" " " " " " "	
					27	"	grey/gr talc/chl clay oxidized green chl siltst hematite nodules	

SCALE

SAMPLE Nos:

HOLE TARGET: UNABLE TO COMPLETE THIS HOLE BECAUSE OF HAEMATITIC IRONSTONE AT BASE.

DRILL TYPE

DRILLER

DRILLED 24/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10560E 9940N

HOLE N°

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		qtz flt. + siltst.	
IAR					2		beige siltst.	
364					3		beige clay + cl br red siltst.	
	x	x	x	x	4		" " " " " " "	
365					5		" " " " " " "	
	1	x	2	x	6		" " " " " " "	
366					7		" " " " " " "	
	x	x	x	x	8		" " " " " " "	
367					9		" " " " " " "	
	1	1	x	x	10		" " " " " " "	
368					11		beige talc? clay redish siltst hem st.	
	x	1	1	x	12		" " " " " hem. st.	
369					13		" " " " " " "	
	x	x	x	x	14		" " " " " " "	
370					15		beige talc? clay red cl br. siltst.	
	x	x	x	1	16		" " " " " "	
371					17		grey/green talc/chl clay siltst + hem st.	
	x	1	1	2	18		" " " " "	
372					19		" " " " "	
	1	x	4	x	20		Yellow/br weathered cl siltst.	
373					21		" " " "	
	1	2	42	4	22	A	brown/black talc clay siltst hem. limonite	
374					23	A.	" " " " " " limonite	
	1	2	26	7	24	A.	grey/black talc clay + beige gr siltst. hem st.	
375	x	x	9	1	25	A	green/grey/beige chl. siltst.	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 24/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10720E 9920N.

HOLE Nº

RL COLLAR

INCLINATION -60° m

DIRECTION Grid SW

SAMPLE No	ASSAYS Au PPB	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		qtz flt / siltst.	
					2		grey clay - siltst.	
IAR 376					3		beige clay, ss qtz, hem st. siltst.	
	1	7	10	1	4		" " " " "	
377					5		" " " " "	
	1	3	6	x	6		" " " " "	
378					7		beige clay - beige/grey green br siltst hem.	
	x	5	3	1	8		" " " " " " " "	
379					9		" " " " " " " "	
	x	3	1	1	10		" " " " " " " "	
380					11		" " " " " " " "	
	x	4	2	1	12		" " " " " " " "	
381					13		beige clay beige/red cl br siltst.	
	1	3	x	x	14		dk " " " " " " " "	
382					15		" " " " " " " "	
	1	x	x	1	16		" " " " " " " "	
383	x	x	2	2	17		" " " " " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 24/8/91

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10720E 9940N

HOLE Nº

RL COLLAR m

INCLINATION −60

DIRECTION Grid Stk.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Hammer	WATER
					1		gravel + silt stone	
					2		"	
IAR					3		"	
384	×	3	1	×	4		beige siltst.	
					5		" "	
385	×	2	6	×	6		" "	
					7		" "	
386	×	×	4	×	8		beige clay-red cl siltst + qfs + carb?	
					9		" " " "	
387	×	7	×	×	10		" " " "	
					11		" " " "	
388	×	3	2	×	12		" " " "	
					13		" " " "	
389	×	×	4	×	14		dk red cl. br siltst.	
					15		" " " " "	
390	×	×	3	×	16		grey clay-greenish/beige chl siltst.	
					17		" " " " "	
391	×	×	7	×	18		" " " " "	
					19		" " " " "	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE

DRILLER

DRILLED 24/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10720E 9960N

HOLE Nº 66

RL COLLAR m

INCLINATION −60

DIRECTION Grid SW.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		purple siltst + qfs Hammer.	
					2		" " "	
					3		" " "	
IAR 392	×	2	15	×	4		beige clay + beige siltst.	
					5		" " " "	
393	×	1	9	×	6		" " " "	
					7		" " " "	
394	×	3	26	×	8		" " " "	
					9		" " " "	
395	×	×	9	×	10		" " " "	
					11		beige clay + beige siltst.	
396	1	3	9	×	12		" " " "	
					13		" " " "	
397	×	1	9	×	14		beige clay + beige silts + qfs ss.	
					15		" " " " "	
398	×	1	5	×	16		" " " " "	
					17		" " " " "	
399	×	9	12	×	18		" " " " "	
					19		" " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 26/10/1991

LOGGED

PROJECT TENNANT CREEK

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 10,720E 9,980N

HOLE N°

RL COLLAR m

INCLINATION 600

DIRECTION GRID SOUTH

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		Beige / brown siltstone	
					2		" " "	
					3		" " "	
IAR 400	x	1	1	x	4		" " "	
					5		" " "	
401	x	3	5	x	6		Beige clay grey/red siltstone	
					7		" " " "	
402	x	21	8	1	8		" " " "	
							ABANDONED - RUNNING OFF	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE: HOLE

DRILLER: BALL

DRILLED: 26 / 10 / 1991

LOGGED: MACKIE

PROJECT

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9000N.

HOLE Nº

RL COLLAR m

INCLINATION −60°

DIRECTION

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Blade	WATER
					1		qtz gravel	
					2		"	
					3		beige siltst + qfs	
IAR 403	2	3	21	2	4		"	
					5		"	
404	x	1	19	1	6		grey/gr. clay grey beige siltst cl. br.	
					7		" " " " " "	
405	x	x	44	1	8		green clay beige siltst + large frage qtz.	
					9		" " " " " "	
406	x	1	43	1	10		green talc clay " " "	
					11		" " " " "	
407	x	2	25	1	12		" " " "	
					13		beige clay + siltst + qfs	
408	x	1	11	x	14		" " " "	
					15		" " " "	
409	1	2	16	x	16		gr/br clay grey/beige siltst + qfs	
					17		" " " " " "	
410	x	2	21	x	18		" " " " large qfs 20%	
					19		" " " " " " "	
411	x	x	22	x	20		" " " " " " "	
					21		" " " " " " "	
412	1	1	18	x	22		grey clay talc? beige siltst + qfs	
					23		" " " " " " "	
413	x	x	15	x	24		grey chl? clay + beige siltst + qfs 20%	
					25		" " " " " 20%	
414	x	2	18	x	26		" " " " " "	
					27		" " " " " "	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE

DRILLER

DRILLED 26 / 10 / 1991

LOGGED

PROJECT

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9000N.

HOLE N°

RL COLLAR m

INCLINATION -60

DIRECTION Grid sth

SAMPLE No	ASSAYS Au ppb	Ag ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Blade	WATER
415	1	3	27	x	28		grey/gr ch/clay beige silt + large qtz 20%	
					29		" " " " "	
416	1	4	26	1	30		" " purple silt " " "	
					31		" " " " " " "	
47 417	x	3	17	1	32		" " " " + large qtz 20%	
					33		" " " " " " 30%	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE

DRILLER EB

DRILLED 26/10/15

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9020N.

HOLE Nº

RL COLLAR

INCLINATION −60°

DIRECTION Grid Sth.

SAMPLE No	ASSAYS Au ppb	Bi PPM	Cu PPM	Pb PPM	DEPTH Metres	LOG	DESCRIPTION Blade.	WATER
					1		qtz gravel.	
					2		" "	
					3		beige siltst + qfs	
TAR					4		beige siltst, qfs; silcrete.	
418					5		grey/green chl clay/beige siltst + large qfs	
	x	2	27	1	6		" " " " " "	
419					7	A	greenish talc clay + gr/br siltst + qfs	
	x	3	33	x	8	A	" " " " " "	
420					9	A.	" " " " " "	
	1	1	46	x	10	A	" " " " " "	
421					11	A	grey/gr talc clay + grey siltst + qfs	
	x	1	38	4	12	A	" " " " " "	
422					13	A	" " " " " "	
	x	1	54	2	14		" " " " " "	
423					15		" " " " " "	
	x	x	52	1	16		" " " " " "	
424					17		beige clay talc? + grey siltst + qfs	
	x	1	32	x	18		" " " " " "	
425					19		beige talc clay + grey siltst + qfs	
	2	2	36	x	20		" " " " "	
426					21		beige clay dk red bc siltst + qfs	
	x	x	28	x	22		" " " " "	
427					23		" " " " "	
	1	3	17	x	24		" " " " "	
428					25		" " " " "	
	1	x	34	x	26		green clay br/gr bc siltst + qfs. - chl?	
429					27		" " " " " - chl?	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER EB

DRILLED 26/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9020N.

HOLE N°

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					28		greenish clay grey/br cl br siltst + qfs	
430	1	2	41	x	29		" " " "	
					30		" " " "	
431	1	1	48	x	31		beige clay + red siltst + qfs	
					32		" " " " "	
	x	x	14	x	33		"	
432					34		" " " " "	
	1	3	23	x	35		" " " " "	
433					36		beige talc/chl? clay + red br cl. siltst qfs	
	1	4	25	x	37		" " " " " " " "	
434	1	2	11	x	38		" " " " " " " " qfs	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER EB

DRILLED 26/10/89

LOGGED

PROJECT

PROSPECT IVANHOE

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9040N

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION Grid sth

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		gravel qtz	
					2		" "	
IAR					3		gravel silc qtz + siltst.	
435	x	2	3	1	4		green clay brown cl siltst + qtz	
					5		" " " " "	
436	1	3	4	1	6		" " " " "	
					7		" " " " "	
437	1	1	3	1	8		greenish/grey clay + siltst + qtz	
					9		" " " " large qtz	
438	1	x	4	1	10		" " " " " "	
					11		" " " " " "	
439	x	x	6	1	12		" " " " " "	
					13		" " " " Large qtz	
440	1	x	5	1	14		beige clay + siltst + qtz	
					15		" " " " 10%	
441	x	3	2	1	16		" " " " "	
					17		" " " " "	
442	1	4	1	1	18		" " " + qtz "	
					19		" " " " "	
443	x	x	x	x	20		" " " " "	
					21		beige clay + grey/beige cl siltst.	
444	1	x	x	1	22		" " " " " " No qtz	
					23		" " " " " " " "	
445	1	x	3	x	24		beige clay + beige/grey cl siltst + qtz	
					25		" " " " " "	
446	x	x	4	1	26		beige clay + cl br siltst	
					27		" " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER EB

DRILLED 26/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

CO-ORDS 11520E 9040N

RL COLLAR

INCLINATION −60° m

DIRECTION Grid Sth

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Blade.	WATER
IAR 447	×	×	3	×	28		beige clay + beige silt + qts	
					29		" " " " "	
448	×	1	4	×	30		" " " " "	
					31		" " " " "	
449	×	1	6	1	32		beige clay + beige br. cl. silt +	
					33		" " " " " "	
450	×	1	3	×	34		" " " " " " minor qts	
					35		" " " " " " " "	
451	×	×	9	1	36		beige clay + dk red silts + minor qts	
					37		" " " " " "	
					38		" " " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER EB

DRILLED 26/10/89

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9060N.

HOLE Nº

RL COLLAR m

INCLINATION −60°

DIRECTION ≠ Grid S/E

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		qtz gravel.	
					2		gravel + siltst.	
					3		" "	
					4		" "	
IAR 452					5		greenish clay + grey siltst + qtz	
	x	x	x	x	6		" " " " "	
453					7		" " " " "	
	x	1	x	x	8		" " " " "	
454					9		greenish/oa/clay + grey siltst + qtz large 40%	
	x	x	x	x	10		" " " " " " "	
455					11		gr/grey clay-chl. hem 80% qtz + minor siltst.	
	x	2	x	x	12		" " " " " 80% " "	
456					13		" " " chl/talc-hem. qtz 80% minor siltst	
	x	3	x	x	14		" " " " " " " " "	
457					15		" " " talc. hem qtz " " "	
	1	2	x	x	16		" " " talc? hem qtz " " "	
458					17		beige/grey clay-talc? very large qtz + siltst.	
	1	x	x	x	18		" " " " " " " "	
459					19		" / " clay-talc? + large qtz minor siltst.	
	x	x	x	1	20		" " " " " " " "	
460					21		beige talc? clay beige br siltst + qtz frags-hem	
	x	2	x	x	22		" " " " " " " " "	
461					23		" " " " " " " " "	
	x	1	x	x	24		" " " " " " " " "	
462					25		beige clay beige br siltst + qtz-chl?	
	x	2	x	x	26		" " " " " " "	
463					27		" " " " " " "	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE EB

DRILLER

DRILLED 26/10/1991

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9060N

HOLE Nº

RL COLLAR

INCLINATION -60° m

DIRECTION Grid SE

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
	1	2	1	x	28		beige clay chl? grey/red silted + qfs 10%	
464					29		" " " " "	
	1	x	1	x	30		" " " " "	
465					31		green clay beige silted + qfs 50%	
	1	3	x	x	32		" " chl. " " 50%	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER EB

DRILLED 26/10/1991

LOGGED

PROJECT

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9080N

HOLE Nº

R.L. COLLAR m

INCLINATION -60°

DIRECTION Grid stn

SAMPLE No	ASSAYS Au ppb	B ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		qtz gravel + siltst.	
					2		" "	
					3		" "	
					4		" "	
466					5		grey clay	
	x	x	x	x	6		" " beige band siltst + qtz.	
467					7		grey/beige clay - talc? siltst + large qtz	
	x	1	1	1	8		" " " " " " "	
468					9		" " " " " " "	
	x	x	x	1	10		" " " " " " "	
469					11		" " " " " " "	
	x	2	x	x	12		grey/beige clay + chl beige siltst + qtz 30%	
470					13		" " " " " " " "	
	x	2	1	1	14		" " " " " " " "	
471					15		" " " " " " " "	
	x	3	1	x	16		beige clay + chl gr-beige siltst + qtz 30%	
472					17		" " " " " " " "	
	x	3	x	x	18		" " " " " " " "	
473					19		" " " " " " " "	
	x	3	x	x	20		beige chl clay + minor qtz	
474					21		" " " + large qtz + siltst.	
	x	x	x	x	22		" " " " " "	
475					23		" " " " " "	
	1	x	1	x	24		" " " " " "	
476					25		" " " " " "	
	1	x	1	1	26		gr/br talc clay + large qtz + chl siltst.	
477.					27		" " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER EB.

DRILLED 26/10/91

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9080N.

HOLE Nº

R.L. COLLAR

INCLINATION −60° m

DIRECTION Grid Stk

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION blade	WATER
IAR	1	2	2	1	28		beige clay banded red/pink silt + qfi	
478					29		" " " " " " "	
	1	x	x	1	30		" " " " " " "	
479					31		" " " " " " "	
	4/5	x	x	x	32		" " " " " " "	
480					33		reddish clay + dk red c/br. silt + qfi	
	1	x	2	x	34		" " " " " " "	
481	1	x	x	x	35		" " " " " " "	
	END.							

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 26/10/89

LOGGED

Surfers Paradise, Super Impose, Sydeston — Cox Plate. 78

PROJECT

PROSPECT IVANHOE

LOCATION

CO-ORDS 11520E 9740N

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE N°

RL COLLAR

INCLINATION −60° m

DIRECTION Grid Stk

SAMPLE No	ASSAYS Au ppb	Ni ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		red sand + gravel	
					2		gravel.	
					3		gravel	
					4		Silcrete + gravel.	
					5		silcrete.	
					6		" " cream siltst.	
IAR					7		grey/green sericite ? siltst. + silc.	
482	1	x	x	1	8		" " " " "	
					9		" " " " "	
483	1	1	4	3	10		o/w siltst + silcrete (slightly talcose?)	
					11		" " " " "	
484	1	x	5	3	12		green/kahki clay chl? brown gw ?	
					13		grey/green chl? clay brown cl br gw.	
485	1	x	5	3	14		" " " " " " "	
					15		" " " " " " "	
486	x	x	7	6	16		" " " " " " "	
					17		" " ch clay brown cl siltst	
487	1	x	7	3	18		" " " " " " " "	
					19		" " " " " " " " qfs	
488	1	x	7	3	20		" " " " " " " " "	
					21		green clay + green siltst + hem st.	
489.	1	1	7	5	22	A	" " " " "	
					23	A	Very dk grey hematitic siltst. – 30% hem.	
490	1	x	9	5	24	A	brown/gr clay + br chl siltst minor hem + qfs	
					25		" " " " " " " "	
491	1	2	29	6	26		" " " " " " " "	
					27		" " " " " " " "	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE

DRILLER

DRILLED 26/10/1991

LOGGED

PROJECT

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9740N.

HOLE N°

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Blade	WATER
492	2	x	19	7	28		greenish chl clay beige siltst + hem st.	
					29		" " " " "	
493	1	x	11	7	30		greenish clay chl beige gr. cl siltst + hem st.	
JAR					31		" " " " " " " " " tqfs	
494	x	1	8	8	32		" " " " " " " " " tqfs	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 26/10/91

LOGGED

PROJECT

PROSPECT Ivanhoe

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9760N.

HOLE N° 80

RL COLLAR m

INCLINATION −60°

DIRECTION Grid Sth

SAMPLE No	ASSAYS Au PPb	Bi PPm	Cu PPm	Pb PPm	DEPTH Metres	LOG	DESCRIPTION blade	WATER
					1		red sand / gravel	
					2		"	
					3		gravel + silc	
					4		" "	
					5		" "	
					6		" "	
					7		" "	
					8		" "	
IAR 495					9		gr/br clay + q/w siltst. + silc	
	1	x	x	3	10		" " " " " "	
496					11		" " " " " "	
	1	x	1	2	12		" " " " " "	
497					13		green/brown clay br cl br siltst.	
	1	x	1	1	14		" " " " "	
498					15		" " " " "	
	1	x	6	2	16		" " " " "	
499					17		" " " " "	
	3	x	8	1	18		" " " " "	
500					19		gr/br clay beige cl br siltst	
	1	x	1	2	20		" " " " " "	
501					21		" " " " " "	
	x	x	1	4	22		" " " " " "	
502					23		beige clay red cl br siltst + hem st.	
	1	x	3	11	24		" " " " " " "	
503					25		" " " " " " "	
	1	1	2	6	26		" " " " " " "	
504					27		br/gr " " " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER

DRILLED 27/10/91

LOGGED

PROJECT

PROSPECT Ivanhoe.

LOCATION:

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9760N.

HOLE Nº

RL COLLAR m

INCLINATION – 60

DIRECTION Grid ‡ sh

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
IAR	1	x	6	3	28		br/gr chl.? clay red siltst + hem st.	
505.					29		" " " " " minor	
	1	3	18	7	30		" " " " " "	
506					31		" " beige/gr siltst minor heat.	
	1	x	16	5	32		" " " " " "	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE

DRILLER EB.

DRILLED 27/10/1991

LOGGED

PROJECT

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

RL COLLAR m

INCLINATION -60°

DIRECTION Grid Sth

CO-ORDS 11520E 9780N

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION	WATER
					1		red sand + gravel.	
					2		" " "	
					3		"	
					4		Kakhs gravel	
					5		" "	
					6		Yellow/br siltst + silcrete - too hard. hammer	
IAR					7		" " " "	
507	3	x	6	3	8		dk red siltst + silc + qfs	
					9		" " " " "	
508	1	x	5	3	10		" " " "	
					11		beige clay dk red cl siltst + silc o/or carb?	
509	1	x	x	2	12		o/w/greenish talc clay + dk red siltst.	
					13		" " " " " " + carb?	
510	1	1	x	2	14		gr/grey talc? clay + dk red siltst + white carb.	
					15		" " " " " " " "	
511	1	x	3	3	16		" " " " " " " "	
					17			
512	1	x	1	4	18		br/gr clay + dk red siltst + carb/silc? + minor qfs	
					19		" " " " "	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE EB

DRILLER

DRILLED 27/10/1991

LOGGED

PROJECT

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9800N

HOLE Nº

RL COLLAR m

INCLINATION −60°

DIRECTION Grid Sth

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Blade	WATER
					1		red sand + gravel	
					2		"	
					3		" + silc	
					4		" + silc	
					5		" + br silts + silc.	
					6		" " "	
					7		o/w clay + dk red silts + silc thermal	
					8		Kakhi clay + dk red cl br silts + silc.	
IAR 513	.				9		o/w talc clay + red silts + silc + qfs + hemat.	
	1	x	x	4	10		Kakhi clay. + br silts + silc + qfs	
514					11		" " " " "	
	1	1	x	4	12		" " " " "	
515					13		" " + br silts + silc + qfs	
"	x	1	x	3	14		" " " " " "	
516					15		grey talc clay o/w to red silts + qfs	
	x	x	1	3	16		" " " " "	
517					17		gr/br clay + o/w to beige silts + qfs	
	1	x	3	2	18		" " " " " "	
518					19		Kakhi chl clay + br cl br silts + hemat + qfs	
	x	x	x	3	20		" " " " " " " "	
519					21		" " " " " " " "	
	x	x	2	2	22		grey/gr. chl clay + br cl beige/gr silts + qfs	
520					23		" " " " " " "	
	x	x	2	4	24		" " " " " " "	
521					25		" " " " " " "	
	1	2	x	4	26		grey clay + beige to chl grey cl br silts.	
522					27		" " " " " " " " "	

SCALE

SAMPLE Nos :

HOLE TARGET :

DRILL TYPE EB.

DRILLER

DRILLED 77

LOGGED 10/11/91

PROJECT

PROSPECT IVANHOE

LOCATION: . . . . . .

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS 11520E 9800N

HOLE Nº

RL COLLAR m

INCLINATION — 60°

DIRECTION Grid SW

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Blade	WATER
					28		grey clay + beige to gr. cht br cl. siltst.	
523					29		" " " " " " "	
	x	x	x	6	30		" " " " " " "	
524					31		" " beige to grey gr siltst + hem st.	
	1	x	1	8	32		" " " " " " "	

SCALE

SAMPLE Nos: . . . . . — . . . . . .

HOLE TARGET: . . . . . .

DRILL TYPE

DRILLER. EB

DRILLED: 27/10/91

LOGGED:

PROJECT

PROSPECT IVANHOE

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

RL COLLAR

INCLINATION −60°

DIRECTION Grid Sth

CO-ORDS 11526E 9820N

SAMPLE No	ASSAYS Au ppb	-BL ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Hammer.	WATER
					1		cg gravel	
					2		" "	
					3		gravel	
					4		gravel	
					5		gravel.	
					6		"	
					7		" "	
IAR.					8		grey/brown clay + siltst dk red.	
525					9		" " " " " " qtz	
	1	x	1	3	10		" " " " " "	
526					11		" " " " " "	
	x	x	x	2	12		o/w talc clay + red siltst.	
527					13		Kahki talc? clay + beige siltst.	
	1	x	x	x	14		" " " "	
528					15		" " " "	
	x	x	x	2	16		" " " "	
529					17		" " " "	
	1	x	x	4	18		" " " "	
530	x	x	x	3	19		gr/br chl clay + beige/grey siltst + minor qtz	

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE EB.

DRILLER

DRILLED: 27/6/91

LOGGED

APPENDIX V

Nelson Grid.
Inclined RAB hole log, 1991

PROJECT

PROSPECT NELSON.

LOCATION: . . . . . CO-ORDS

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

HOLE Nº

RL COLLAR

INCLINATION −60° m

DIRECTION 175° Mag.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Hammer	WATER
NER 1	2	1	4	7	1		br/grey clay chl siltst.	
					2		grey/gr. clay " "	
2	1	2	x	5	3		" " " " "	
					4		" " " " "	
3	1	2	x	5	5		" " " " "	
					6		" " " " "	
4	1	4	1	17	7		dk grey chl. hematitic siltst.	
					8		" " " " "	
5	1	2	x	17	9		" " " " "	
					10		" " " " "	
6	2	7	6	46	11		dk grey chl/talc. hematitic siltst	
					12		" " " " "	
7	2	5	5	22	13		" " " " "	
					14		" " " " "	
8	2	5	8	20	15		" " " " "	
					16		" " " " "	
9	1	5	4	40	17		dk grey chl clay - hematitic siltst.	
					18		" " " " "	
10	x	3	8	26	19		" " " " "	
					20		" " " " "	
11	1	2	15	22	21		" " " " "	
					22		" " " " "	
12	1	1	14	7	23		Grey chl clay - beige/grey banded siltst.	
					24		" " " " "	
13	1	1	29	41	25		Brown talc clay - dk red banded siltst.	
					26		" " " beige siltst + qfs minor qcs	
14	4	1	39	92	27		grey/green chl clay + qcp abund. qcs + qfs	

SCALE

SAMPLE Nos: . . . . . – . . . . . .

HOLE TARGET: . . . . . .

DRILL TYPE

DRILLER

DRILLED: 27/10/1991

LOGGED

PROJECT

PROSPECT Nelson

LOCATION

ROEBUCK RESOURCES N.L.
LOG OF ROTARY DRILL HOLE

CO-ORDS

HOLE N° 1

R.L. COLLAR m

INCLINATION -60°

DIRECTION 175°M.

SAMPLE No	ASSAYS Au ppb	Bi ppm	Cu ppm	Pb ppm	DEPTH Metres	LOG	DESCRIPTION Hammer	WATER
NER					28		Kaolin chl? clay + qep - some qes smok.	
15					29		gr/br chl clay qep. qfs, hem grains,	
	2	4	44	38	30		" " " " " " " hem stringers	
16					31		" " " " "	
					32		" " " " "	
17	4	x	64	47	33		" " " " "	
					34		" " " " " + hem stringers	
18.	1	1	54	41	35		" " " " " " "	
					36		" " " " " " "	
19	1	x	47	27	37		grey chl clay? qep abund. qes + hem str.	
					38		" " " " " " "	
20		x	21	20	39			
					40			

SCALE

SAMPLE Nos:

HOLE TARGET:

DRILL TYPE Taffire

DRILLER,

DRILLED 27/10/91

LOGGED

APPENDIX VI

Nelson, Grid.
Bedrock RAB Drill hole logs.

NELSON.

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

	SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
3.12.91	NER 1	5900	4700	T 2	3		Grey chl siltst.	1	x	11	7
	2.		4725	T 2.5	3		red siltst.	1	x	7	5
	3.	POR	4750	T 2.5	3		red grad siltst ?	3	x	16	11
	4.		4775	T 2.5	3	chloritic	qep.	x	x	7	7
	5		4800	T 2.5	3	chl.	qep.	2	x	9	5
	6.	5800	4875	T 2.5	3		qep ? gravel.	2	x	12	11
	7	POR.	4850	T 2	3	qtz-hem frags - qei	qep. gravel ?	1	x	7	8
	8.		4825	T 2.5	3		qep gravel.	2	x	10	11
	9		4800	T 3	3		qep gravel	1	x	12	9
	10		4775	T 3	3		gravel	1	1	15	8
	11		4750	T 2.5	3	qfs 10%	qep gravel	1	x	13	11
	12	5700	4825	T 2.5	3	qfs 10%	qep.	x	x	9	8
	13		4850	T 2.5	3	qfs 10%	qep.	2	x	8	8
	14	POR	4875	T 2	2	qfs .	qep gravel.	1	x	9	11
	15		4900	T 2	3	qfs .	qep.	2	x	8	9
	16		4925	T 2	3	qfs .	qep.	2	x	11	13
	17.	5600	4975	T 2	3	qfs .	qep	2	x	87	15
	18		4950	T 2	3	chl. hem. granules	qep	1	x	25	11
	19		4925	T 2	3	hem. granules, st.	qep.	1	x	17	13
	20		4900	T 2	3	large hem. qfs 5%	qep.	1	x	40	11
21/63. END.	21		4875	T 2	3	hematitic & black/glassy j	hem. rich qep.	1	2	11	7
4.12.91	22	5500	4925	T 2	3		chl qep.	1	x	12	7
	23		4950	T 0	3		chl qep.	1	x	12	8
	24		4975	T 1	3		chl. qep.	1	1	84	500
	25		5000	T 1	3		chl qep.	1	x	15	20
	26		5025	T 0	3	hematite bands	hematite shale dk grey & red	1	1	8	39
	27		5050	T 0	3	-	dk grey hem shale	1	x	8	75

r 1 10

6/18
27 75
4·12·91

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
NER 28	5400	5000	T O.	3	VH-small sample	Fe st + hem shale	1	x	12	15
29		5025	T 1	3		brown/pink siltst	x	x	22	9
30		5050	T 1	3		grey/black siltst.	2	x	6	7
31		5075	T 1	3		grey/green siltst.	2	x	7	7
32		5100	T 1	3		red siltst.	2	x	7	8
33		5125	T 1	3	qtz	Chl qep.	2	x	9	8
34		5175	T 0	3	VH-small sample	qep? some qcs	2	x	12	42
35		5200	T 1	3	hem st.	Chl qep.	1	x	9	7
36		5225	T 1	3		Chl qep	2	1	7	12
37		5250	T 1	3	hem st.	Chl qep.	2	1	7	8
NER 38	5500	5250	T 1	3	large qtz 20%	qep.	2	x	6	5
39		5225	T 1	3		Chl qep.	1	x	18	8
40		5200	T 1	3	dk gr/black chlorite	Chl chert/jasper v+c.	2	x	26	12
41		5175	T 0	1		chert/qep.	1	x	14	19
42	5600	5100	T 0	3		Chl qep.	2	x	29	14
43		5075	T 0	3	hem granules	Chl qep.	1	x	10	9
44		5125	T 0	3		Chl qep	1	x	10	8
45		5150	T 0	3		Chl qep.	1	x	12	6
46		5175	T 0	1		"	1	x	15	4
47		5200	T 0	1		"	1	x	11	8
48	5700	5075	T 1	3	hem. st.	Chl qep	1	x	122	17
49		5100	T 1	3		Chl qep	1	x	34	20
50		5125	T 1	3		Chl qep	1	x	25	34
51		5150	T 1	3		Chl qep	1	x	13	7
52	5800	5100	T 1	3		Chl qep	1	x	14	13
53		5075	T 1	3		Chl qep	1	x	13	9
54		5050	T 1	3		Chl qep.	1	x	12	8

22 / 27

BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG.

33/93m
4·12·91

SAMPLE NUMBER	GRID REFERENCE METRES E	GRID REFERENCE METRES N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
NER 55	5800	5025	T/1	3		Chl qep	1	×	11	8
56		5000	T/1	3	qfs 10%	Chl qep.	1	×	9	5
57		4975	T/1	3	Large qfs 15%	Chl qep.	1	×	14	8
58		4950	T/1	3	" " 80%	Chl qep.	1	×	12	8
59	5900	4900	T/1	3	Large qfs 20%	Chl qep.	1	×	17	17
60		4925	T/1	3	qfs - minor	Chl qep.	1	×	15	18
61		4950	T/1	3	hem. gr. qfs 10%	Chl qep	1	×	16	18
62		4975	T/1	3	~~large qfs 20%~~	Chl qep.	2	×	9	7
63		5000	T/1	3	large qfs 20%	Chl qep	1	×	17	22
64		5025	T/1	3		Chl qep.	1	×	14	15
65	5600	4750	T/1	3		"	1	×	10	9
66		4775	T/1	3	qfs 10%	"	1	×	8	11
67	POR.	4800	T/1	3	Large qfs 80%	qep.	1	×	13	10
NER 68		4825	T/1	3		Chl qep	1	×	12	13
69		4850	T/1	3		Chl qep.	1	×	10	8
70	5400 ~~4750~~	4750 ~~5400~~	T/1	3	qfs 10%	"	1	×	10	10
71		4775	T/1	3		Chl qep	1	×	10	11
72		4800	T/1	3		yellow/br siltst.	1	×	43	10
73		4825	T/1	3	chloritised	dk grey chert	1	×	12	7
74		4850	T/1	3	hemst.	Chl qep.	2	×	12	8
75		4875	T/1	3		Pink siltst.	1	×	7	5
76		4900	T/1	3		kahki/ pink siltst.	1	×	12	10
77		4925	T/1	3		pink siltst.	1	×	8	7
78	POR	4950	T/0	~~3~~1		black Chl jasper/ch	2	1	17	8
79	POR	4975	T/0	~~3~~1		"	1	×	15	7

58/164.
END

APPENDIX VII

Gray's Bluff Grid.
Analytical results for soil samples, 1991.

GENALYSIS
LABORATORY
SERVICES PTY. LTD.

MAIN OFFICE & LAB 15-17 Davison St. Maddington WA 6109 PO Box 144 Gosnells WA 6110 Ph 09 459 9011 Fax 09 459 5343
KALGOORLIE SAMPLE PREP. DIVISION 12 Keogh Way Kalgoorlie WA 6430 PO Box 388 Kalgoorlie WA 6430 Ph 090 21 3476 FaX 090 21 6057

ATTENTION P ALLCHURCH
ROEBUCK RESOURCES NL
PO BOX 690
WEST PERTH WA 6872
AUSTRALIA

ANALYTICAL REPORT.

COMMENTS : ATTENTION : P ALLCHURCH/ K FOX.....
COMMENTS : SOIL....

JOB INFORMATION

JOB CODE	:269.0/915126
NO. SAMPLES	:60
ELEMENTS	:4
CLIENT O/N	:00205
DATE RECEIVED	:28/11/91
DATE COMPLETED	:10/12/91

LEGEND

'X' = LESS THAN DETECTION LIMIT
'N/L' = SAMPLE NOT RECEIVED
'*' = RESULTS CHECKED
'( )' = RESULTS STILL TO COME
'I/S' = INSUFFICIENT SAMPLE FOR ANALYSIS
'E6' = RESULT x 1,000,000

SAMPLE PREPARATION DETAILS

SAMPLE STATE(S) & SAMPLE PREPARATION(S)

(0.50Kg)DR,SSMG

Abbreviations used for Preparation codes :

CP	: Course Pulverise	CR	: Crush	DR	: Dry
CUT	: Diamond Saw Cut	FP	: Fine Pulverise	HM	: Hammer Mill
SSMG	: Single Stage Mix & Grind	MS	: Mix & Split	O	: Other
NR	: Not Required	QTZ	: Quartz Clean Between	COMPS	: Composite
2X	: Two Splits				

Abbreviations used for Sample States :

CONC	: Concentrates	COST	: Costeans	CRJCT	: Coarse Rejects.
D/CHIP	: Drill Chip	D/CORE	: Drill Core	D/CUT	: Drill Cuttings
HMC	: Heavy Mineral Concentrates	PERC	: Percussion Chip	PISLIT	: Pisolite
RC	: Reverse Circulation	R/CHIP	: Rock Chip	SOLN	: Solutions
SOLN	: Solutions	STRSED	: Stream Sediments	UNSPEC	: Unspecified
V/CHIP	: Vacuum Chip	V/DRIL	: Vacuum Drill	XCRJCT	: Ex Coarse Rejects

SAMPLE STORAGE OF SOLIDS :

BULK RESIDUES AND PULPS WILL BE STORED FOR 60 DAYS WITHOUT CHARGE. AFTER THIS TIME ALL BULK RESIDUES AND PULPS WILL BE STORED AT A RATE OF $1.20/cubic metre/day UNTIL YOUR WRITTEN ADVICE REGARDING COLLECTION OR DISPOSAL IS RECEIVED. EXPENSES RELATED TO THE RETURN OR DISPOSAL OF SAMPLES WILL BE CHARGED TO YOU AT COST.

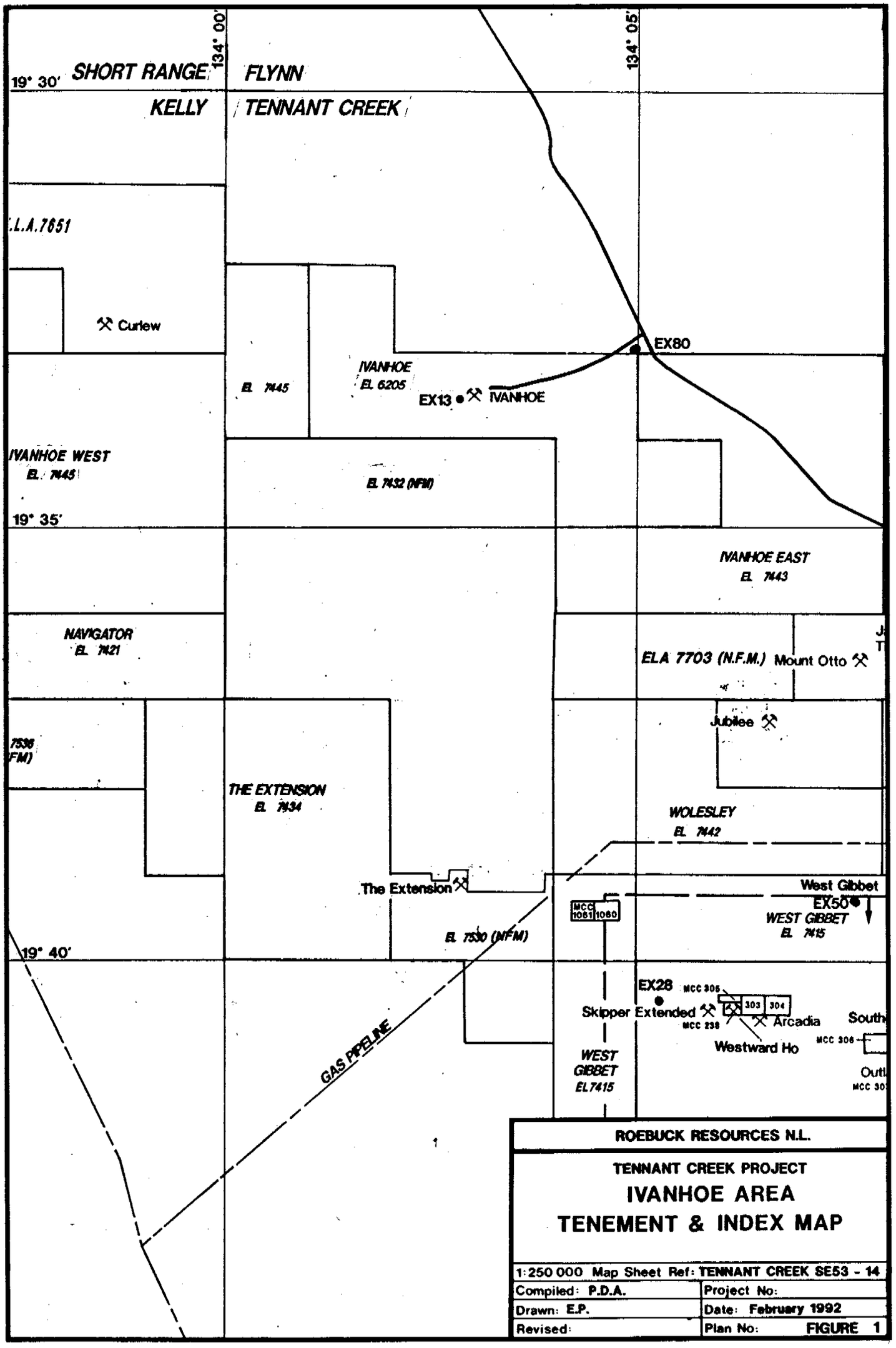
SAMPLE STORAGE OF SOLUTIONS :

SAMPLES RECEIVED AS LIQUIDS ,WATERS OR SOLUTIONS WILL BE HELD FOR 6 WEEKS FREE OF CHARGE THEN DISPOSED OF ,UNLESS WRITTEN ADVICE FOR RETURN OR COLLECTION IS RECEIVED.

ELEMENTS	Au	Au-Rp1	Cu	Pb
UNITS	ppb	ppb	ppm	ppm
DETECTION	1	1	1	1
METHOD	B/ETA	B/ETA	B/AAS	B/AAS
SAMPLE NUMBERS				
1 GYS:10000E5000N	X		3	4
2 GYS:10000E5040N	1		4	5
3 GYS:10000E5080N	1		9	6
4 GYS:10000E5120N	5	3	10	5
5 GYS:10000E5160N	1		7	4
6 GYS:10000E5200N	4		4	5
7 GYS:10080E5160N	2		8	5
8 GYS:10080E5200N	3		9	6
9 GYS:10160E5160N	1		9	5
10 GYS:10160E5200N	2		9	5
11 GYS:10240E5200N	2		6	4
12 GYS:10320E5080N	X		3	4
13 GYS:10320E5120N	X		5	5
14 GYS:10320E5160N	2		6	5
15 GYS:10320E5200N	4		10	6
16 GYS:10400E5080N	X		6	4
17 GYS:10400E5120N	1		6	4
18 GYS:10400E5160N	1		5	4
19 GYS:10400E5200N	1		9	6
20 GYS:10480E5040N	3		8	4
21 GYS:10480E5080N	X		11	4
22 GYS:10480E5120N	2		9	4
23 GYS:10480E5160N	X		6	4
24 GYS:10480E5200N	2		6	5
25 GYS:10560E4800N	2		7	5
26 GYS:10560E4920N	7		9	4
27 GYS:10560E5000N	1		5	4
28 GYS:10560E5040N	6		5	4
29 GYS:10560E5080N	1		7	5
30 GYS:10560E5120N	1		6	5
31 GYS:10560E5160N	1		5	5
32 GYS:10560E5200N	1		5	5
33 GYS:10640E4800N 4920	1		7	5
34 GYS:10640E4880N 4960	1		5	4
35 GYS:10640E5000N	1		4	3
36 GYS:10640E5040N	2		7	5
37 GYS:10640E5080N	3		10	6
38 GYS:10640E5120N	5		8	4
39 GYS:10640E5160N	1		6	5
40 GYS:10720E4800N	1		10	4

ELEMENTS	Au	Au-Rp1	Cu	Pb
UNITS	ppb	ppb	ppm	ppm
DETECTION	1	1	1	1
METHOD	B/ETA	B/ETA	B/AAS	B/AAS
41 GYS:10720E4880N	6		8	5
42 GYS:10720E4920N	1		9	4
43 GYS:10720E4960N	2		12	4
44 GYS:10720E5000N	4		4	4
45 GYS:10720E5040N	1		7	6
46 GYS:10720E5120N	1		8	5
47 GYS:10720E5160N	1		11	5
48 GYS:10720E6080N	3		8	5
49 GYS:10800E4600N	1		5	4
50 GYS:10800E4640N	3		5	4
51 GYS:10800E4680N	2		4	5
52 GYS:10800E4720N	3		8	5
53 GYS:10800E4760N	1		4	4
54 GYS:10800E4800N	4		6	5
55 GYS:10800E4840N	4		10	7
56 GYS:10800E4880N	3		7	6
57 GYS:10800E4920N	1		8	8
58 GYS:10800E4960N	3		6	4
59 GYS:10800E5000N	4		12	9
60 GYS:10800E5040N	135	145	12	6
Ch.0001(GYS:10000E5000N)	2		3	5
Ch.0026(GYS:10560E4920N)	7		11	4
Ch.0051(GYS:10800E4680N)	1		4	5
STD: PL-1	16			
STD: PL-1			98	54

<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<<< END OF REPORT >>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

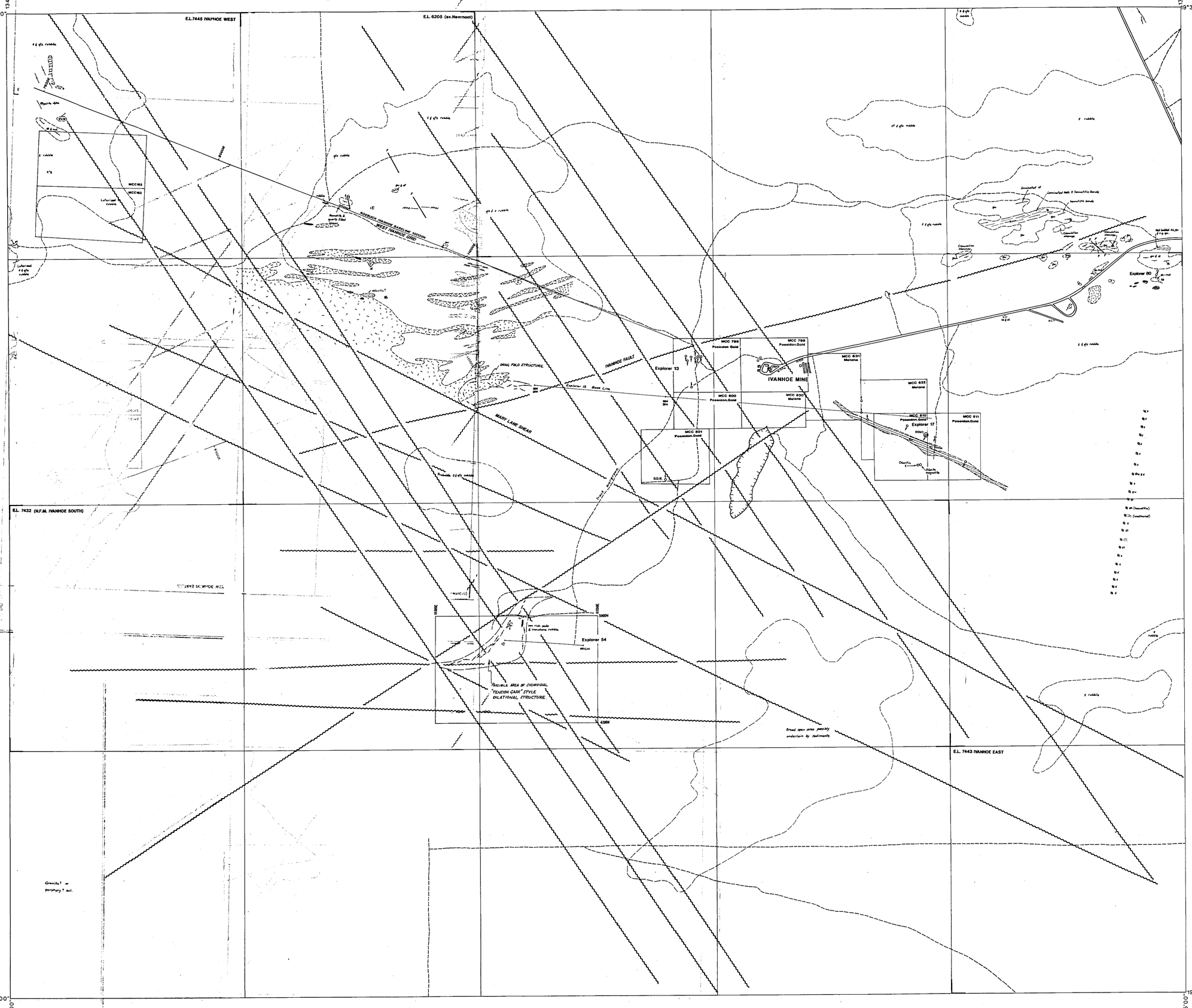

134° 00'
134° 05'
19° 30'
SHORT RANGE
FLYNN
KELLY
TENNANT CREEK
E.L.A.7651
Curlew
EX80
IVANHOE
EL 6205
EL 7445
EX13
IVANHOE
IVANHOE WEST
EL 7445
EL 7432 (NFM)
19° 35'
IVANHOE EAST
EL 7443
NAVIGATOR
EL 7421
ELA 7703 (N.F.M.)
Mount Otto
Jubilee
7536
FM)
THE EXTENSION
EL 7434
WOLESLEY
EL 7442
The Extension
West Gibbet
EX50
WEST GIBBET
EL 7415
MCC 1061
1060
EL 7530 (MFM)
19° 40'
EX28
MCC 305
Skipper Extended
MCC 238
303
304
Arcadia
Westward Ho
South
MCC 306
Outl
MCC 30
WEST GIBBET
EL7415
GAS PIPELINE
ROEBUCK RESOURCES N.L.
TENNANT CREEK PROJECT
IVANHOE AREA
TENEMENT & INDEX MAP
1:250 000 Map Sheet Ref: TENNANT CREEK SE53 - 14
Compiled: P.D.A.
Project No:
Drawn: E.P.
Date: February 1992
Revised:
Plan No: FIGURE 1

MISSING MAP

FIGURE 2

TENNANT CREEK

AND REGIONAL GEOLOGY MAP



REFERENCE

- st Siltstone
- gw Greywacke
- sh Shale
- md Mudstone
- s Undifferentiated sediments
- Porphyry
- Ironstone
- Jasper
- Diamond Drill Hole
- Percussion Drill Hole
- Photolinear

INDEX TO ADJOINING SHEETS

RED BLUFF NORTH	ARGO WEST	QUARTZ HILL
RED BLUFF	IVANHOE	GREYS BLUFF
RED BLUFF SOUTH	THE EXTENSION	JUBILEE

0 100 200 500 1000m

Scale 1:10000

Revisions		

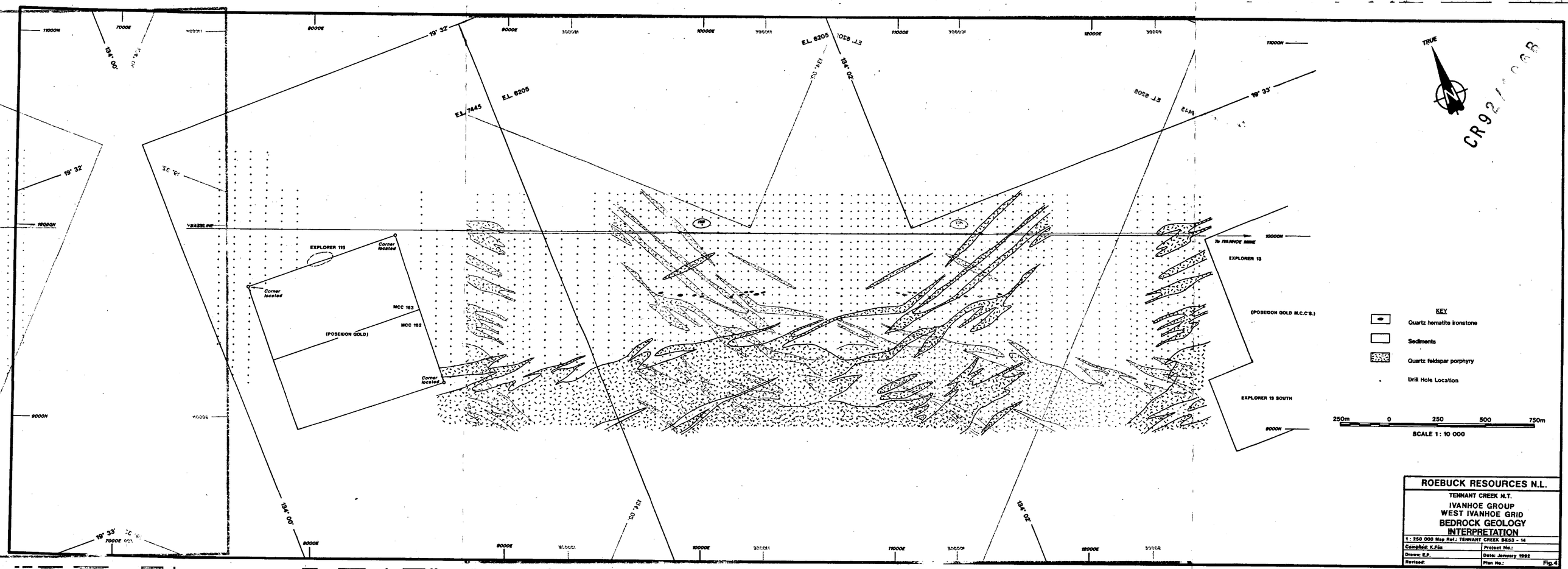
ROEBUCK RESOURCES N.L.

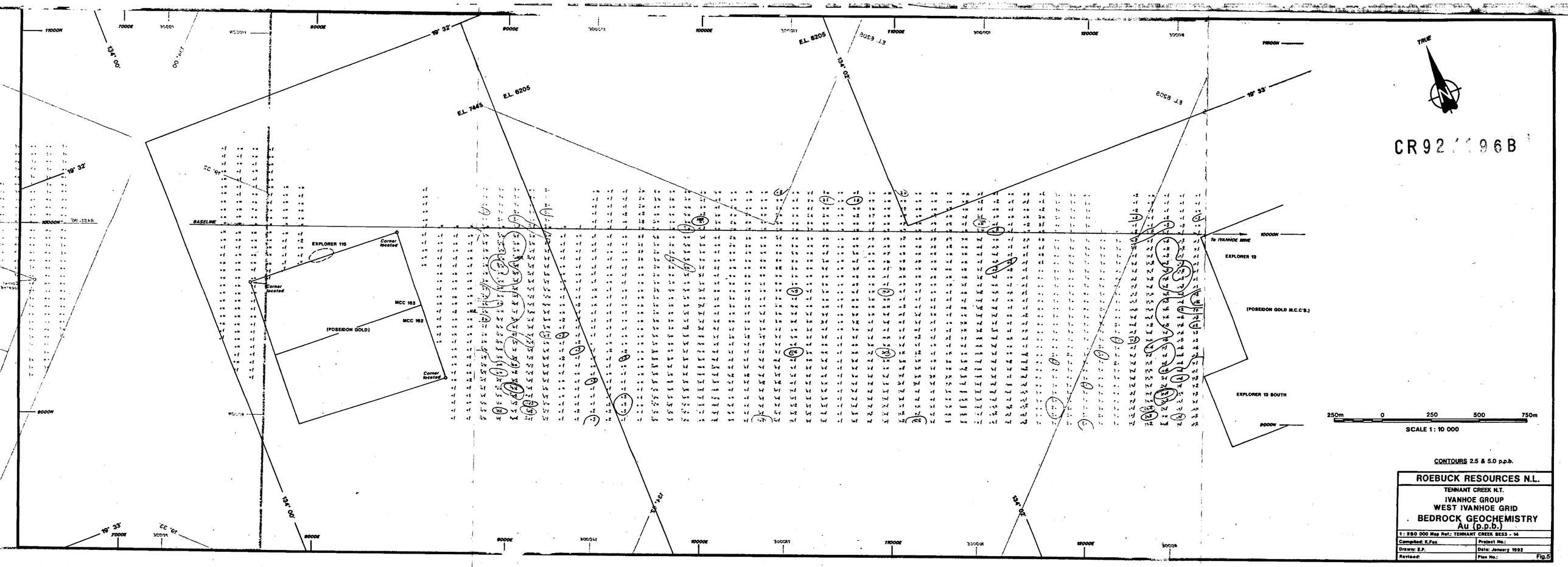
PROJECT: TENNANT CREEK N.T.

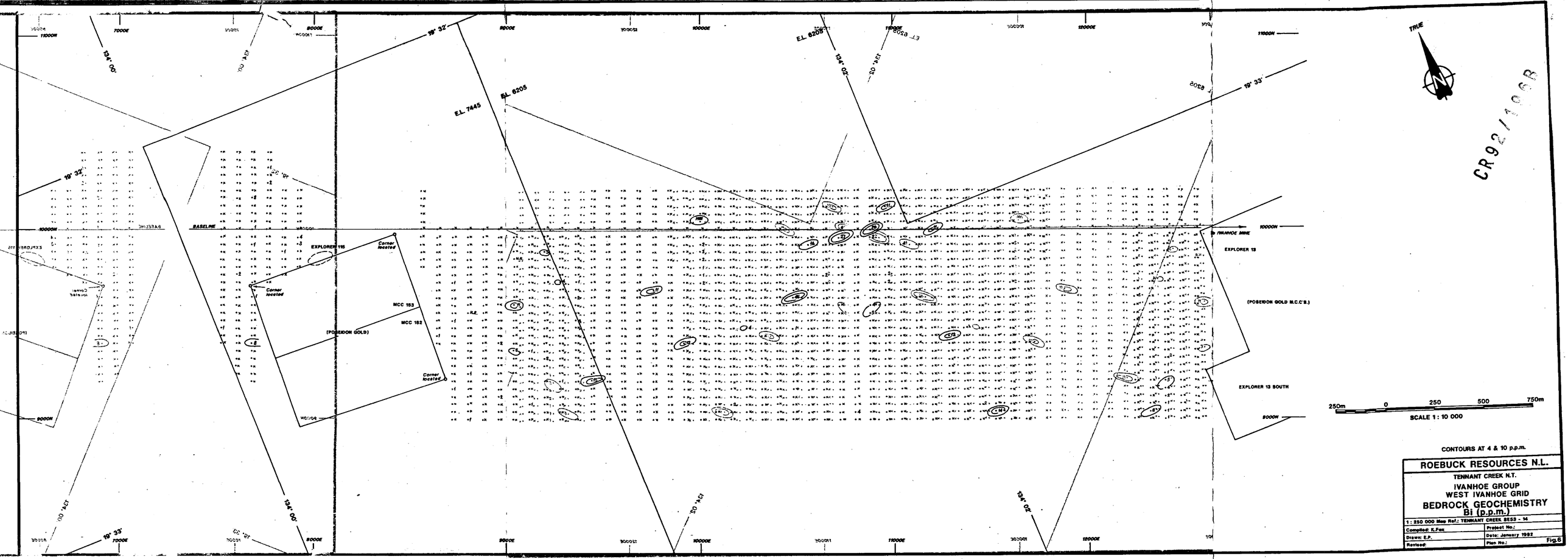
TITLE: **IVANHOE INTERPRETIVE GEOLOGICAL MAP**

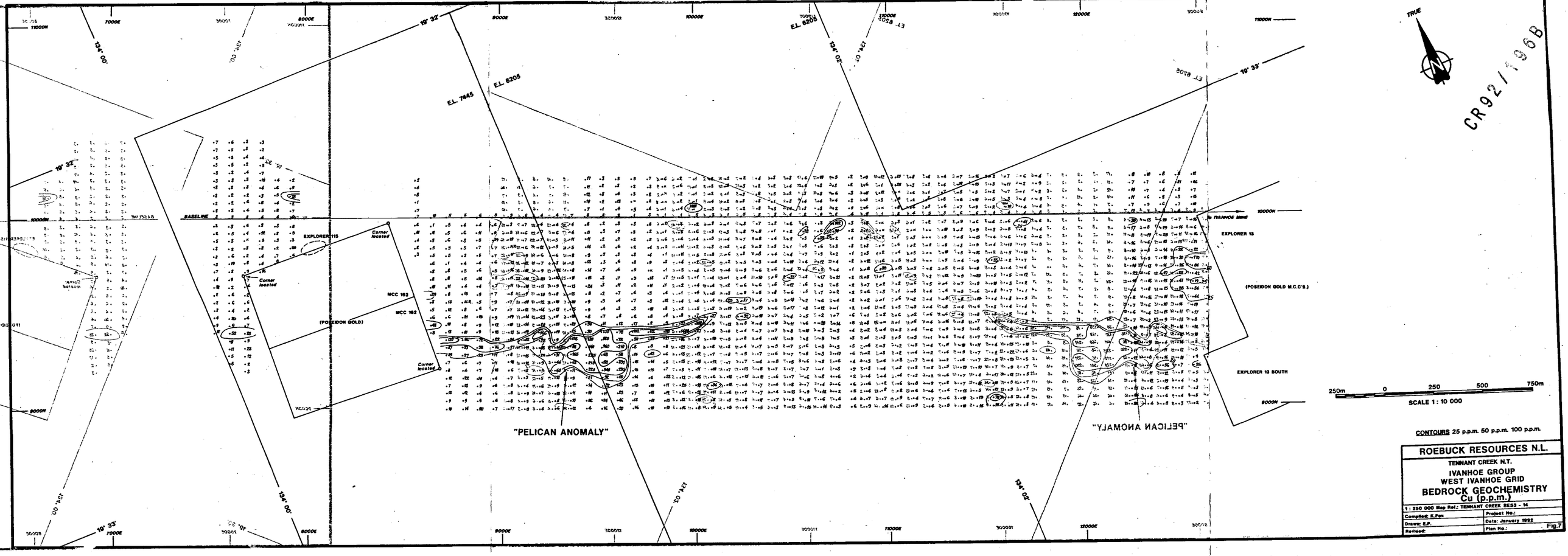
COMPILED P.D.A.	SCALE 1 : 10 000	DATE REVISED Jan.1992	Fig.3
DRAWN E.P.	DATE Aug.1991	PLAN No	

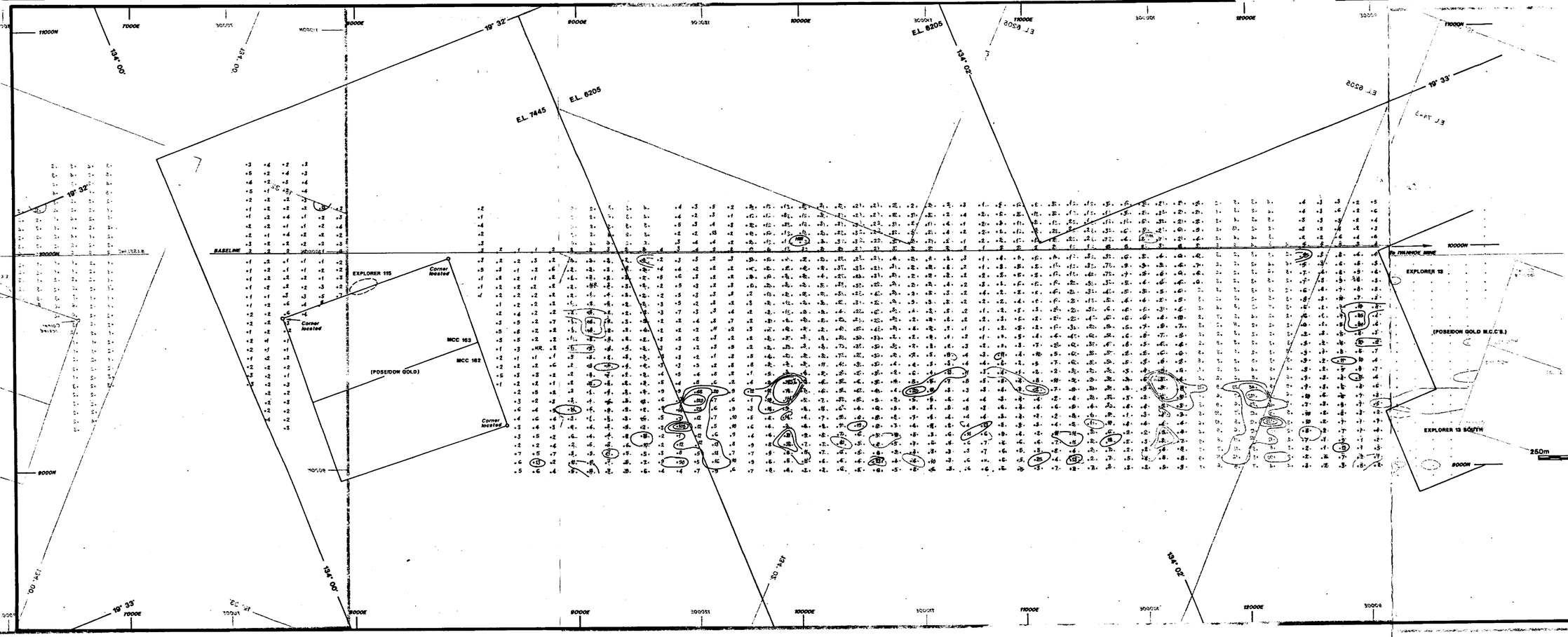
CR92/196B


TRUE
CR92/008
EL 6205
EL 7445
EL 6205
EL 8301
EL 8305
134° 00'
134° 02'
19° 32'
19° 33'
11000N
10000N
9000N
7000E
8000E
9000E
10000E
11000E
12000E
EXPLORER 115
Corner located
Corner located
Corner located
MCC 163
MCC 162
(POSEIDON GOLD)
To IVANHOE MINE
EXPLORER 13
(POSEIDON GOLD M.C.C'S.)
EXPLORER 13 SOUTH
KEY
Quartz hematite ironstone
Sediments
Quartz feldspar porphyry
Drill Hole Location
250m 0 250 500 750m
SCALE 1 : 10 000
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID
BEDROCK GEOLOGY
INTERPRETATION
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Project No.:
Drawn: E.P.
Date: January 1992
Revised:
Plan No.:
Fig.4

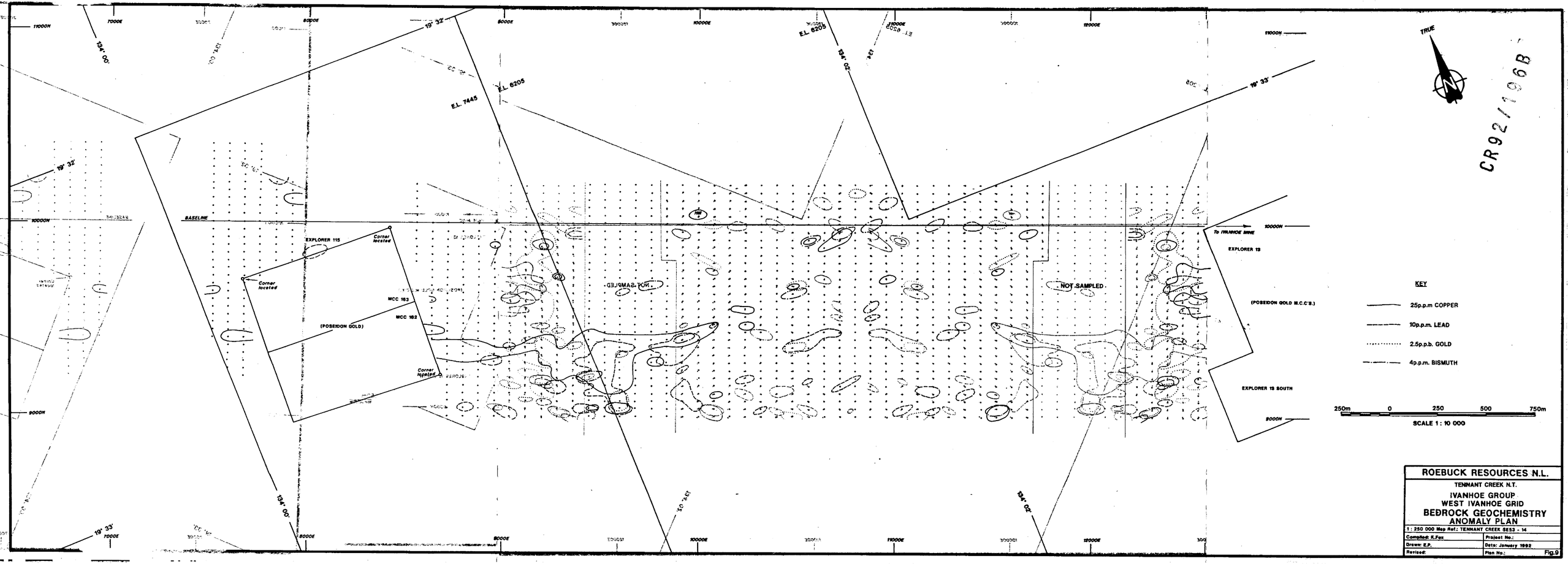

TRUE
CR92/096B
BASELINE
EXPLORER 115
Corner located
MCC 163
MCC 162
(POSEIDON GOLD)
EL. 7445
EL. 6205
To IVANHOE MINE
EXPLORER 13
(POSEIDON GOLD M.C.C'S.)
EXPLORER 13 SOUTH
250m 0 250 500 750m
SCALE 1 : 10 000
CONTOURS 2.5 & 5.0 p.p.b.
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID
BEDROCK GEOCHEMISTRY
Au (p.p.b.)
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Project No.:
Drawn: E.P.
Date: January 1992
Revised:
Plan No.:
Fig.5

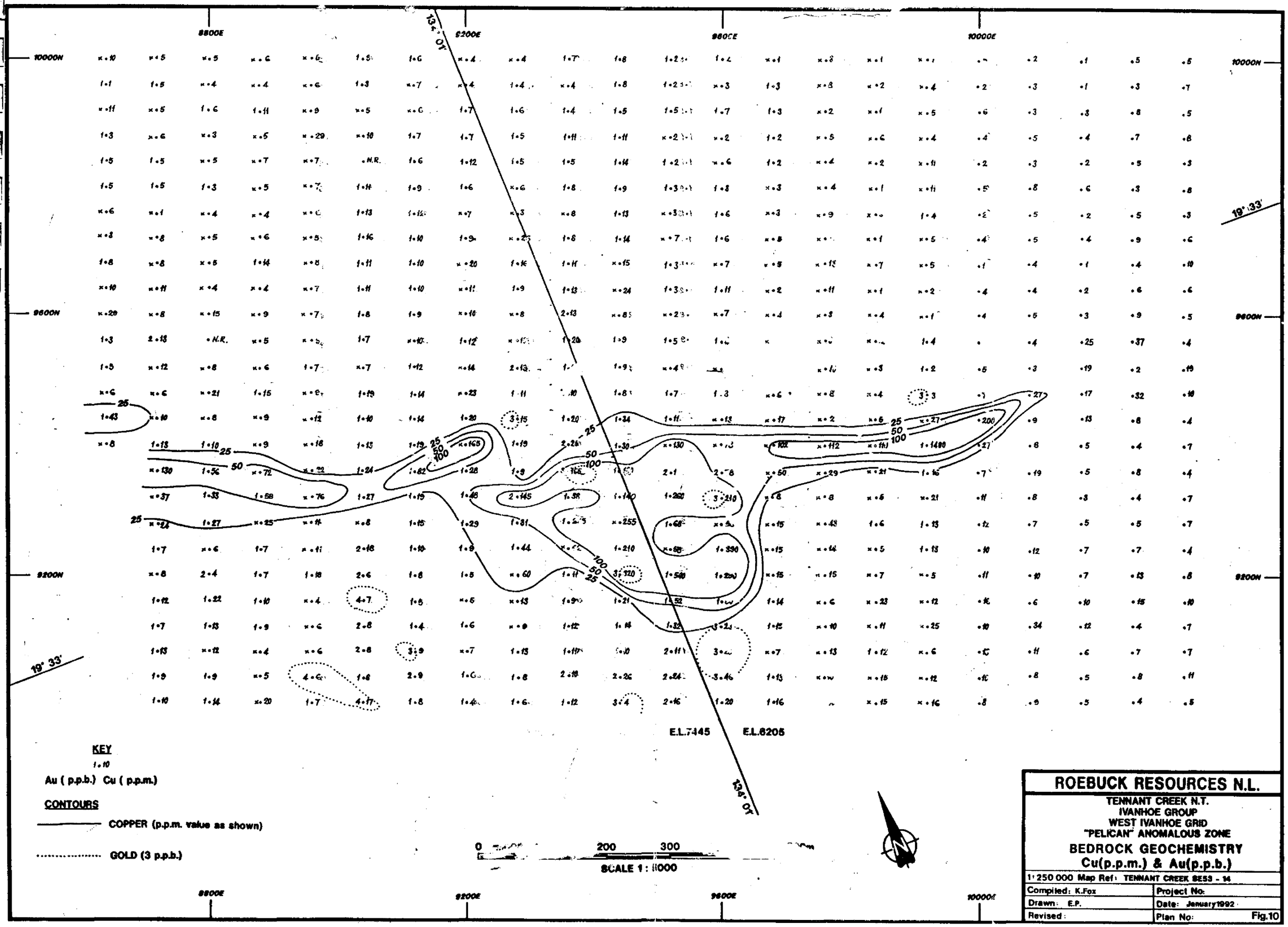

CR92/106B
TRUE
N
19° 32'
19° 33'
134° 00'
134° 02'
EL 7445
EL 6205
EL 6205
BASELINE
10000N
11000N
9000N
7000E
8000E
9000E
10000E
11000E
12000E
EXPLORER 115
Corner located
Corner located
Corner located
MCC 183
MCC 182
(POSEIDON GOLD)
IVANHOE MINE
EXPLORER 13
(POSEIDON GOLD M.C.C'S.)
EXPLORER 13 SOUTH
250m 0 250 500 750m
SCALE 1 : 10 000
CONTOURS AT 4 & 10 p.p.m.
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID
BEDROCK GEOCHEMISTRY
Bi (p.p.m.)
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Drawn: E.P.
Revised:
Project No.:
Date: January 1992
Plan No.:
Fig.6

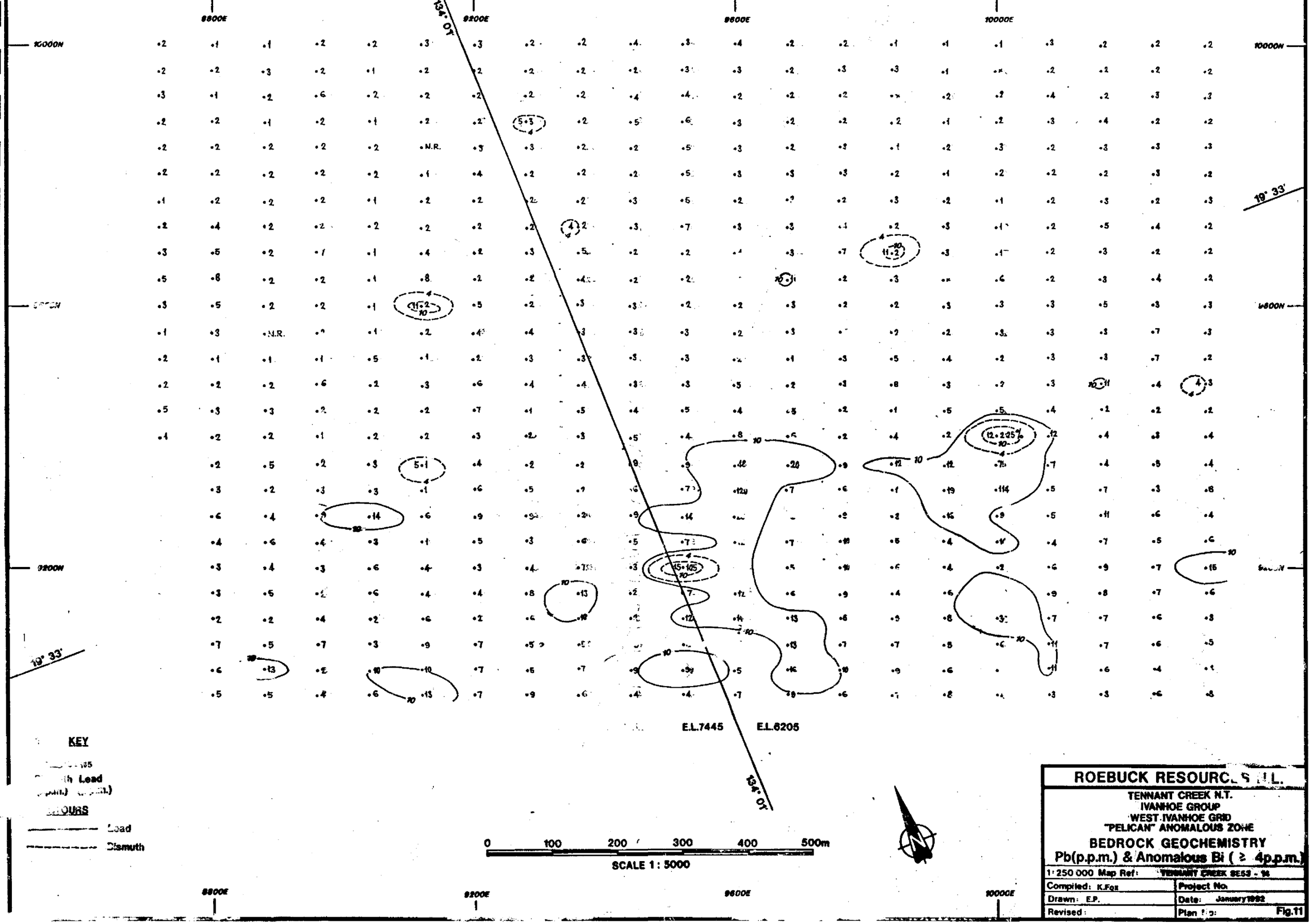

CR92/196B
TRUE
EL 6205
EL 7445
EL 6205
EL 6205
19° 32'
19° 33'
134° 00'
134° 02'
BASELINE
EXPLORER 115
Corner located
MCC 163
MCC 162
(POSEIDON GOLD)
IVANHOE MINE
EXPLORER 13
(POSEIDON GOLD M.C.C'S.)
EXPLORER 13 SOUTH
"PELICAN ANOMALY"
"PELICAN ANOMALY"
7000E
8000E
9000E
10000E
11000E
12000E
13000N
10000N
9000N
250m 0 250 500 750m
SCALE 1 : 10 000
CONTOURS 25 p.p.m. 50 p.p.m. 100 p.p.m.
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID
BEDROCK GEOCHEMISTRY
Cu (p.p.m.)
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Drawn: E.P.
Revised:
Project No.:
Date: January 1992
Plan No.:
Fig.7

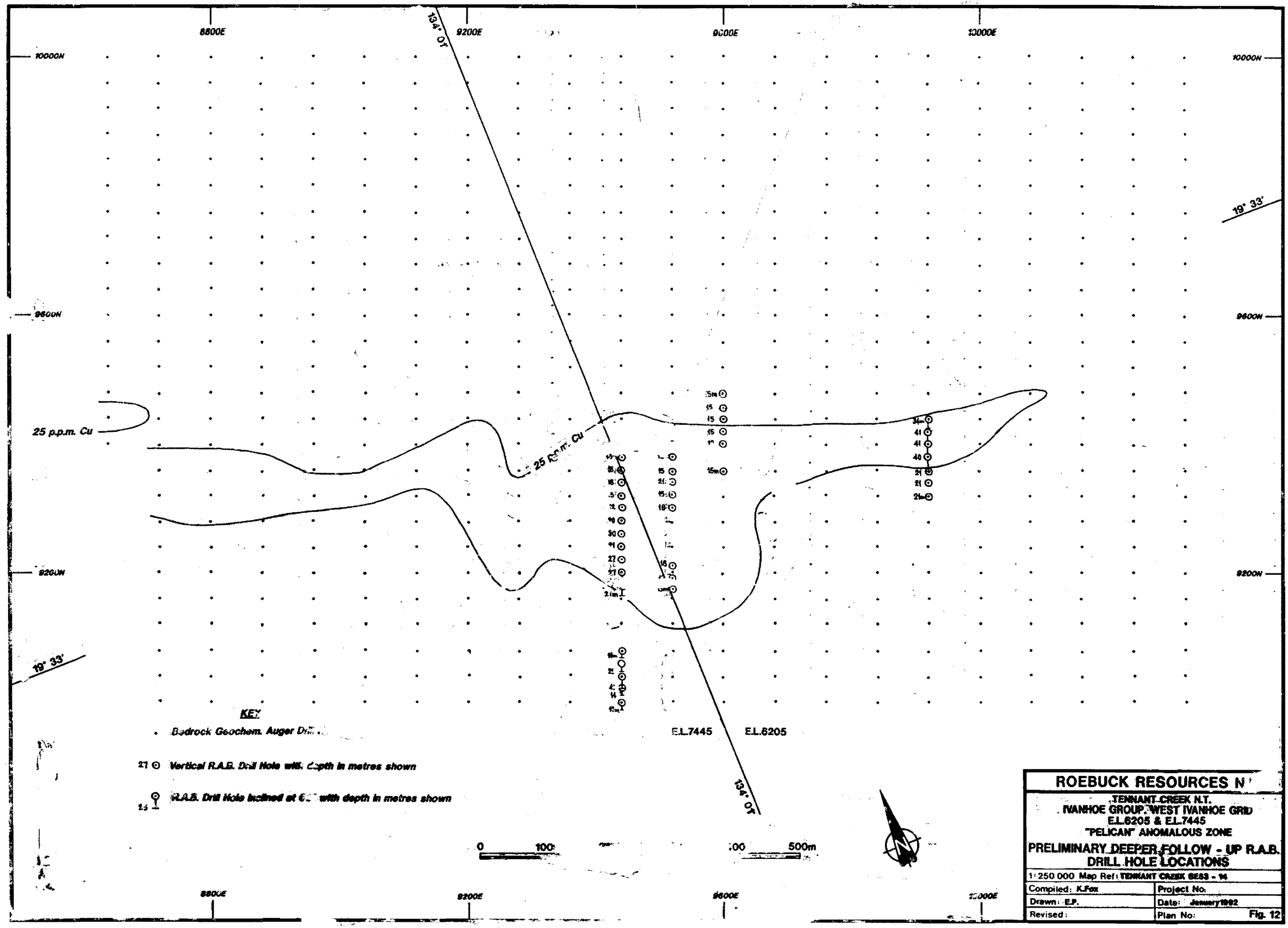

TRUE
N
EL. 6205
EL. 7445
EL. 6205
EL. 6205
EL. 6205
19° 32'
19° 33'
134° 00'
134° 02'
11000N
10000N
9000N
7000E
8000E
9000E
10000E
11000E
12000E
BASELINE
EXPLORER 115
Corner located
Corner located
Corner located
MCC 163
MCC 162
(POSEIDON GOLD)
Pb FAUNHOE MINE
EXPLORER 13
(POSEIDON GOLD M.C.C.S.)
EXPLORER 13 SOUTH
250m 0 250 500 750m
SCALE 1 : 10 000
CONTOURS at 10, 20 & 50 p.p.m.
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID
BEDROCK GEOCHEMISTRY
Pb (p.p.m.)
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Drawn: E.P.
Revised:
Project No.:
Date: January 1992
Plan No.:
Fig.8

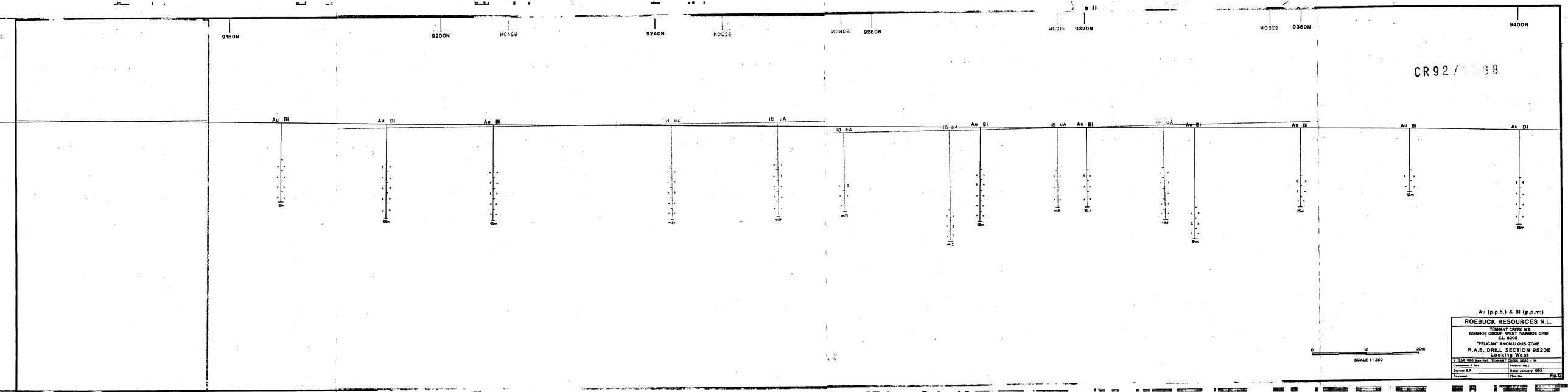
CR92/196B

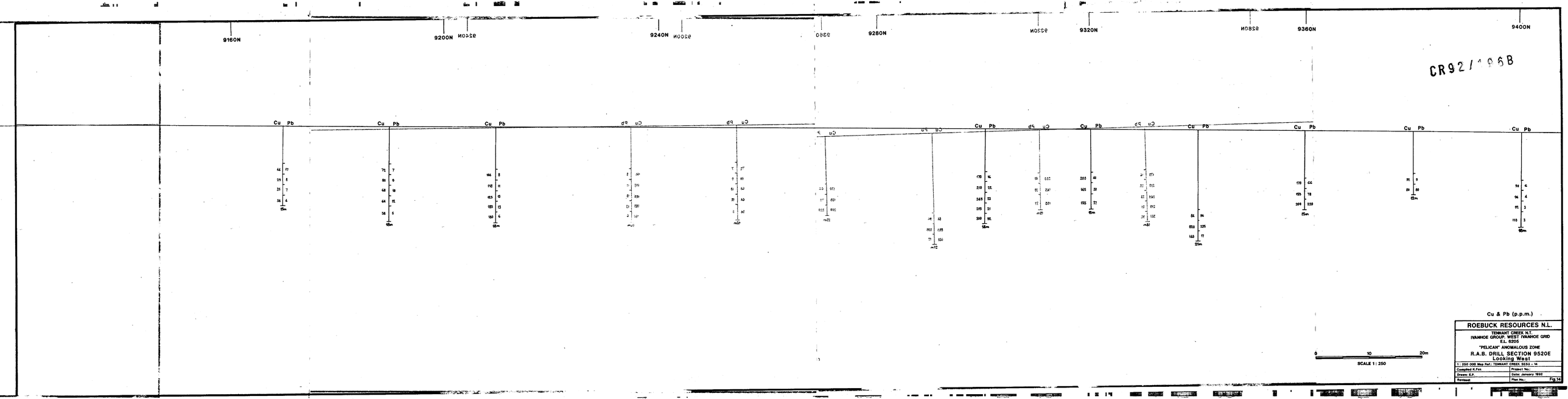

CR92/196B
TRUE
BASELINE
EXPLORER 115
Corner located
Corner located
Corner located
MCC 163
MCC 162
(POSEIDON GOLD)
NOT SAMPLED
NOT SAMPLED
EL 7445
EL 6205
EL 6205
19° 32'
19° 33'
134° 00'
134° 02'
11000N
10000N
9000N
7000E
8000E
9000E
10000E
11000E
12000E
To IVANHOE MINE
EXPLORER 12
(POSEIDON GOLD M.C.C'S.)
EXPLORER 12 SOUTH
KEY
25p.p.m COPPER
10p.p.m. LEAD
2.5p.p.b. GOLD
4p.p.m. BISMUTH
250m 0 250 500 750m
SCALE 1 : 10 000
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID
BEDROCK GEOCHEMISTRY
ANOMALY PLAN
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Project No.:
Drawn: E.P.
Date: January 1992
Revised:
Plan No.:
Fig.9


8800E
9200E
9600E
10000E
10000N
9600N
9200N
134° 01'
19° 33'
E.L.7445
E.L.8205
KEY
1 • 10
Au (p.p.b.) Cu (p.p.m.)
CONTOURS
COPPER (p.p.m. value as shown)
GOLD (3 p.p.b.)
0
200
300
SCALE 1 : 1000
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID
"PELICAN" ANOMALOUS ZONE
BEDROCK GEOCHEMISTRY
Cu(p.p.m.) & Au(p.p.b.)
1:250 000 Map Ref: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Project No:
Drawn: E.P.
Date: January1992
Revised:
Plan No:
Fig.10


8800E
9200E
9600E
10000E
10000N
9600N
9200N
19° 33'
134° 01'
E.L.7445
E.L.6205
KEY
Lead
Bismuth
0 100 200 300 400 500m
SCALE 1 : 5000
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID
"PELICAN" ANOMALOUS ZONE
BEDROCK GEOCHEMISTRY
Pb(p.p.m.) & Anomalous Bi (≥ 4p.p.m.)
1:250 000 Map Ref: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Project No.
Drawn: E.P.
Date: January 1992
Revised:
Plan No: Fig.11


8800E
9200E
9600E
10000E
10000N
9600N
9200N
134° 01'
19° 33'
25 p.p.m. Cu
25 p.p.m. Cu
KEY
Bedrock Geochem. Auger Drill
Vertical R.A.B. Drill Hole with depth in metres shown
R.A.B. Drill Hole Inclined at 6 with depth in metres shown
E.L.7445
E.L.6205
0
100
500m
ROEBUCK RESOURCES N
TENNANT CREEK N.T.
IVANHOE GROUP, WEST IVANHOE GRID
E.L.6205 & E.L.7445
"PELICAN" ANOMALOUS ZONE
PRELIMINARY DEEPER FOLLOW - UP R.A.B.
DRILL HOLE LOCATIONS
1:250 000 Map Ref: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Project No:
Drawn: E.P.
Date: January 1992
Revised:
Plan No:
Fig. 12


9160N
9200N
9240N
9280N
9320N
9360N
9400N
CR92/
Au Bi
Au (p.p.b.) & Bi (p.p.m.)
0
10
20m
SCALE 1 : 250
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP, WEST IVANHOE GRID
E.L. 6205
"PELICAN" ANOMALOUS ZONE
R.A.B. DRILL SECTION 9520E
Looking West
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled: K.Fan
Project No.:
Drawn: E.P.
Date: January 1992
Revised:
Plan No.:
Fig.13



CR92/196B

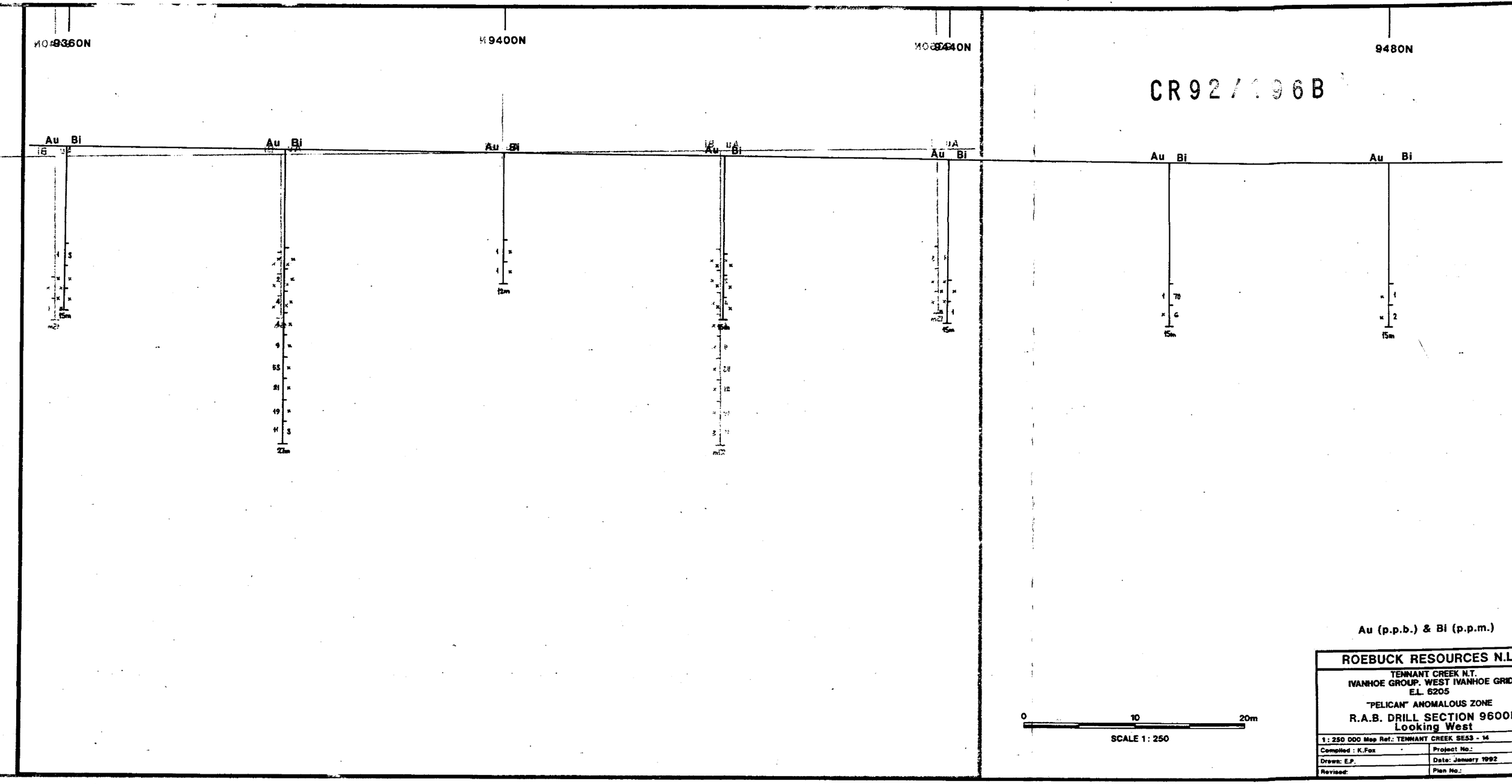
ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.
IVANHOE GROUP, WEST IVANHOE GRID
E.L. 6205

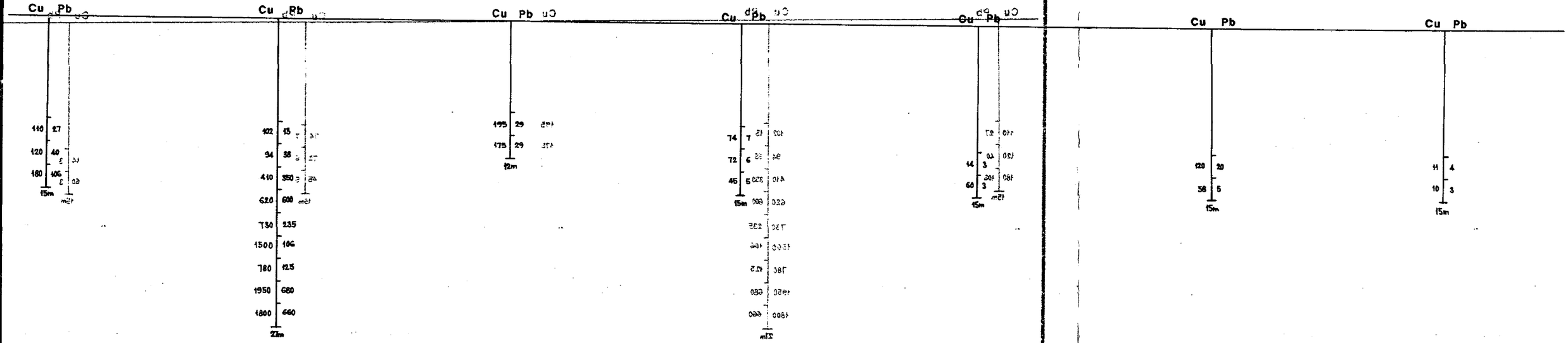
"PELICAN" ANOMALOUS ZONE

R.A.B. DRILL SECTION 9520E
Looking West

1 : 250 000 Map Ref. TENNANT CREEK SD53 - 14	
Compiled K.Fox	Project No.:
Drawn: E.P.	Date: January 1992
Revised:	Plan No.: Fig.14


9360N
9400N
9440N
9480N
CR92/196B
Au Bi
Au Bi
Au Bi
Au Bi
Au Bi
Au Bi
15m
22m
12m
15m
15m
15m
0
10
20m
SCALE 1 : 250
Au (p.p.b.) & Bi (p.p.m.)
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP. WEST IVANHOE GRID
E.L. 6205
"PELICAN" ANOMALOUS ZONE
R.A.B. DRILL SECTION 9600E
Looking West
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled : K.Fox
Project No.:
Drawn: E.P.
Date: January 1992
Revised:
Plan No.:
Fig.15

CR92/196B



Cu & Pb (p.p.m.)

0 10 20m

SCALE 1 : 250

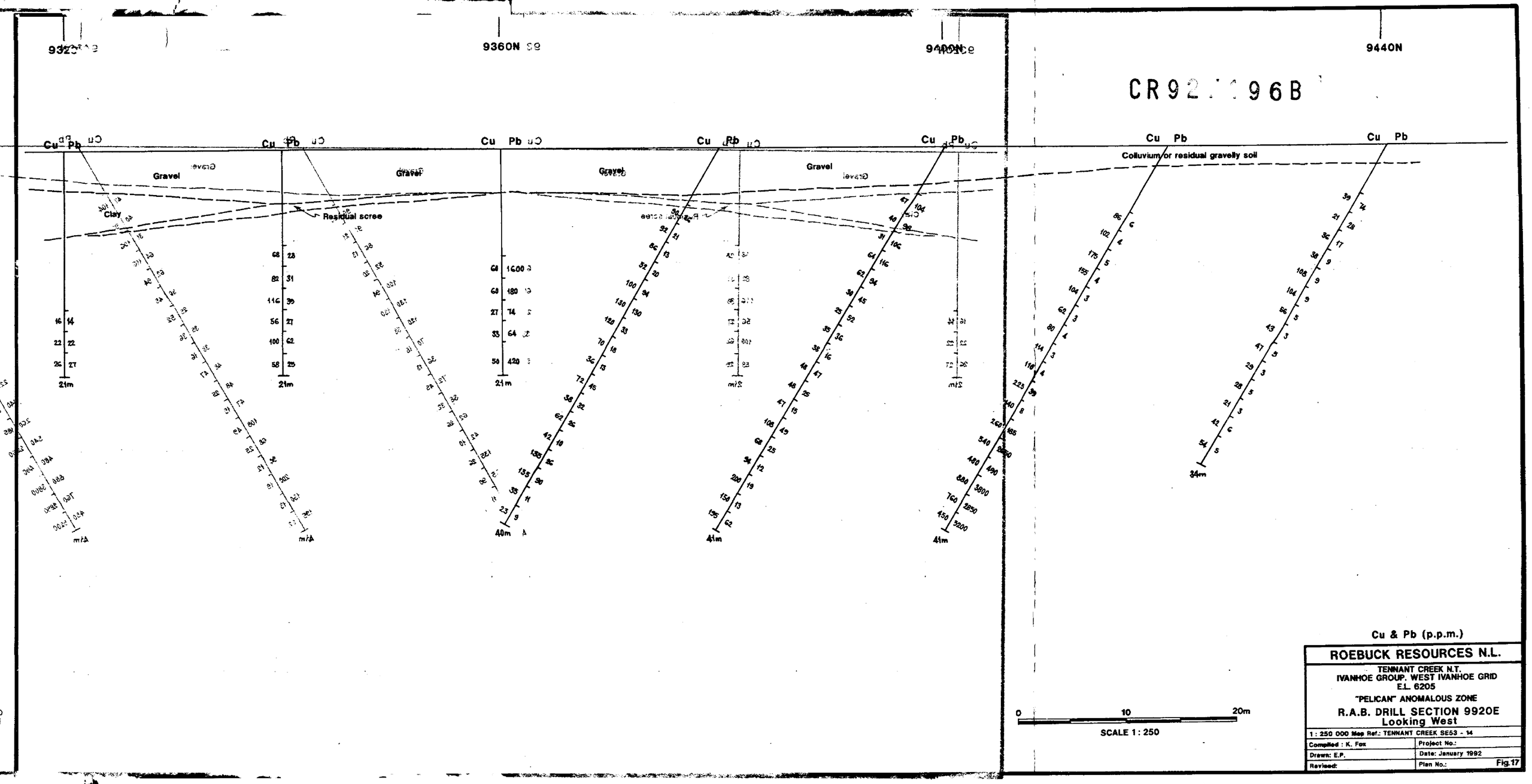
ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.
IVANHOE GROUP. WEST IVANHOE GRID
E.L. 6205

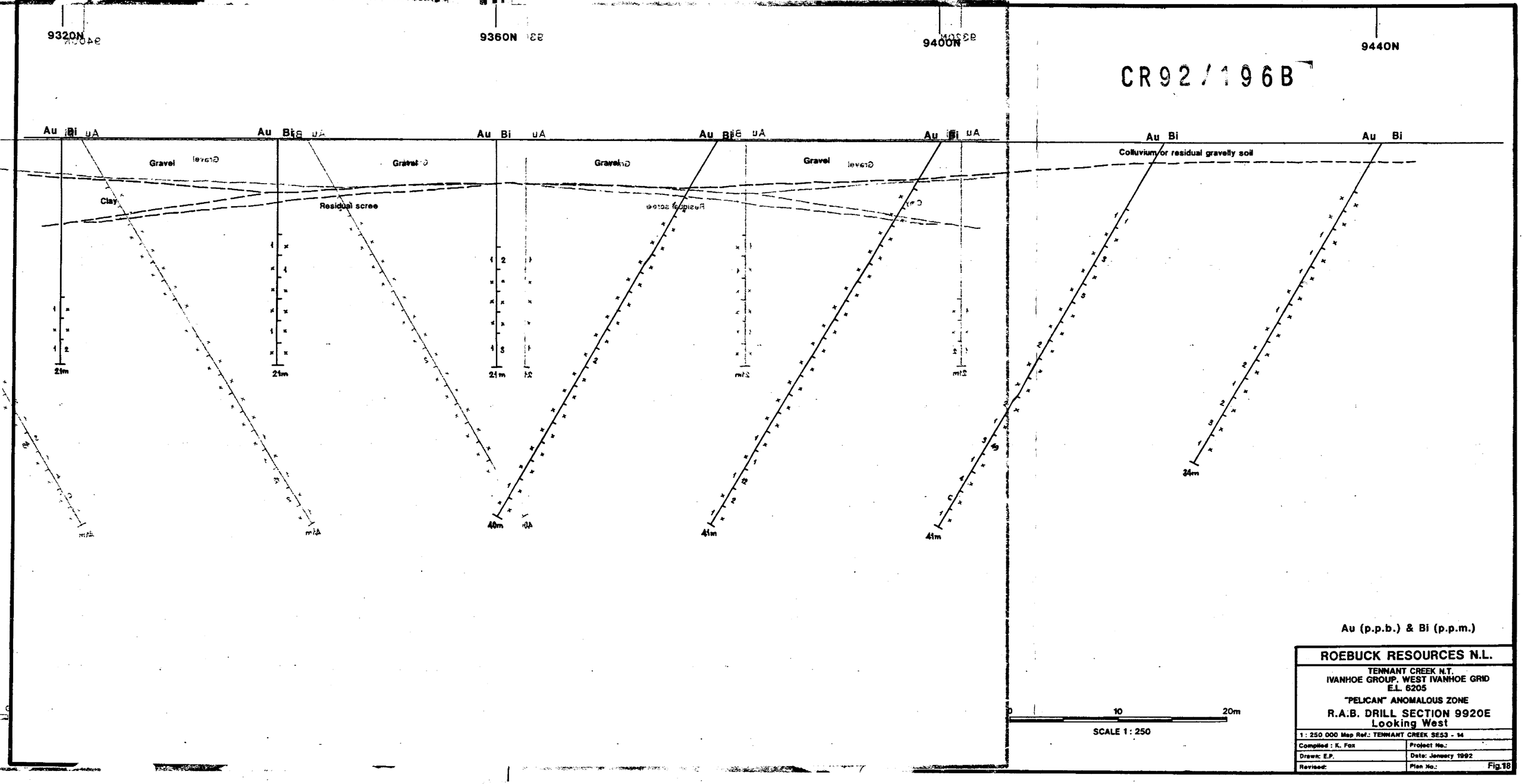
"PELICAN" ANOMALOUS ZONE

R.A.B. DRILL SECTION 9600E
Looking West

1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14	
Compiled : K.Fox	Project No.:
Drawn: E.P.	Date: January 1992
Revised:	Plan No.: Fig.16


9320N
9360N
9400N
9440N
CR92 96B
Cu Pb
Gravel
Clay
Residual scree
Colluvium or residual gravelly soil
21m
40m
41m
34m
0
10
20m
SCALE 1 : 250
Cu & Pb (p.p.m.)
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP, WEST IVANHOE GRID
E.L. 6205
"PELICAN" ANOMALOUS ZONE
R.A.B. DRILL SECTION 9920E
Looking West
1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14
Compiled : K. Fox
Project No.:
Drawn: E.P.
Date: January 1992
Revised:
Plan No.:
Fig.17

CR92/196B



ROEBUCK RESOURCES N.L.

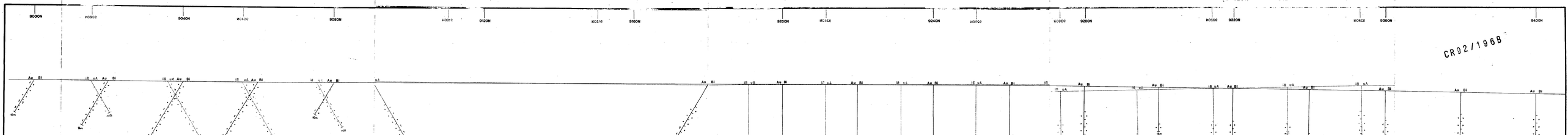
TENNANT CREEK N.T.
IVANHOE GROUP, WEST IVANHOE GRID
E.L. 6205

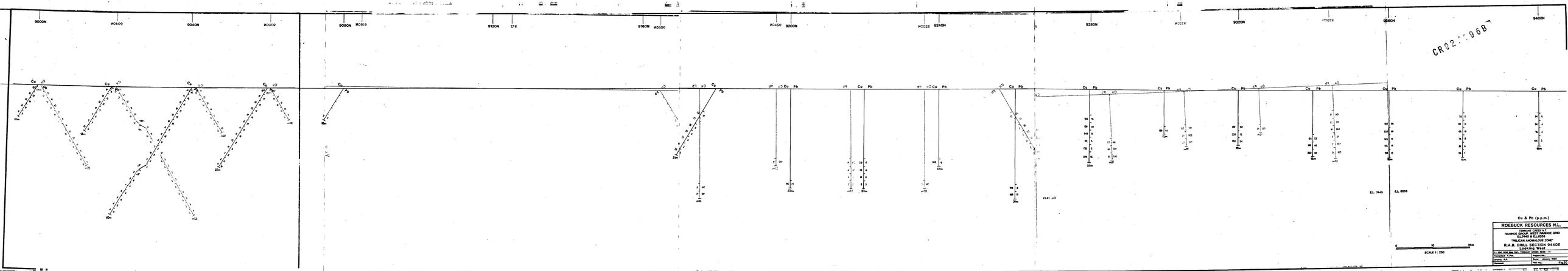
"PELICAN" ANOMALOUS ZONE

R.A.B. DRILL SECTION 9920E
Looking West

1 : 250 000 Map Ref.: TENNANT CREEK SE53 - 14	
Compiled : K. Fox	Project No.:
Drawn: E.P.	Date: January 1992
Revised:	Plan No.: Fig.18

CR92/1968


9000N
9040N
9080N
9120N
9160N
9200N
9240N
9280N
9320N
9360N
9400N
Au Bi
IP µA
Au Bi
IP µA
Au Bi
IP µA



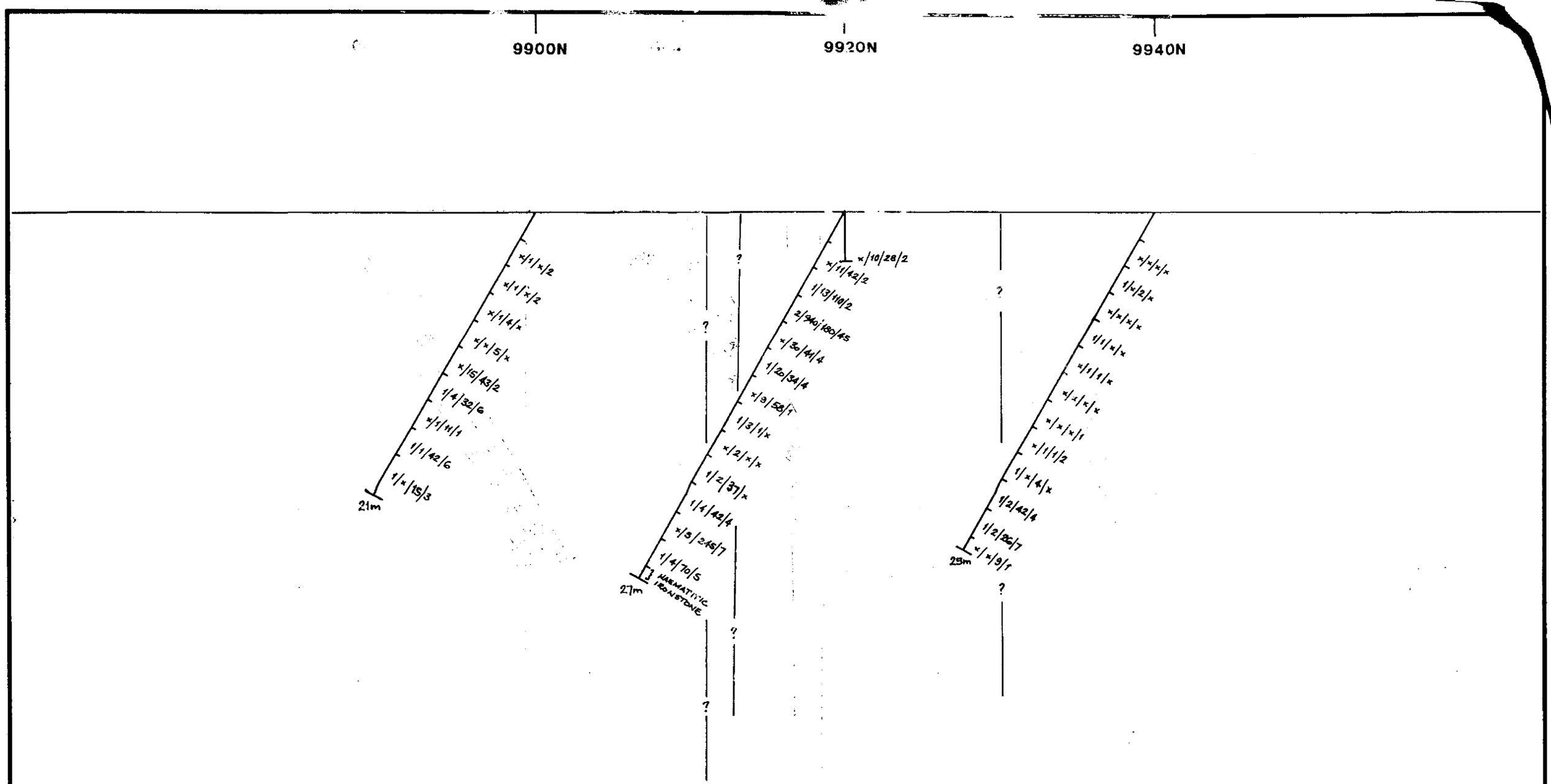
CR32:96B

Cu & Pb (p.p.m.)

ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.
IVANHOE - PELICAN PROJECT GRID
E.L.7645 & EL6205
"PELICAN ANOMALOUS ZONE"
R.A.B. DRILL SECTION 9440E
Looking West

1 : 250 (200 Mm Rep) Tobacco Creek 5852 - 1	
Compiled: P. Fox	Project: 1
Drawn:	Date: January 1988
Revised:	Plan No. 1 Fig 20



ANGLED HOLES RAB DRILLED
VERTICAL HOLE VACUUM DRILLED
ANALYSES PLOTTED THUS:-

Au / Bi/Cu/Pb
(p.p.b) (p.p.m.)

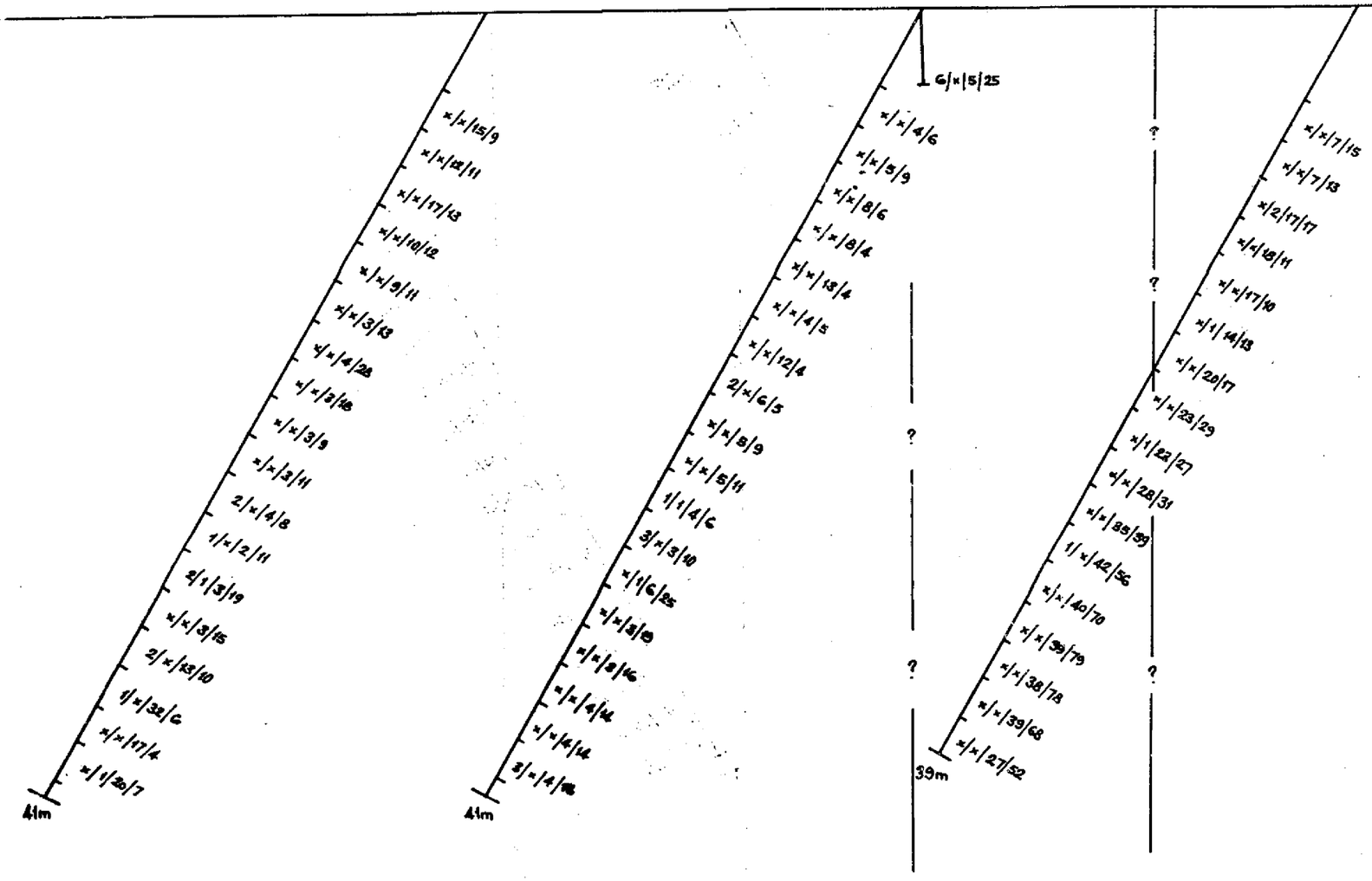
SCALE 1 : 250

ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID

CROSS SECTION 10560E
Looking West

1:250 000 Map Ref: TENNANT CREEK SE53 - 14	
Compiled: K. Fox.	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.21



ANGLED HOLES RAB DRILLED
VERTICAL HOLE VACUUM DRILLED
ANALYSES PLOTTED THUS:-

Au / Bi / Cu / Pb
(p.p.b.) (p.p.m.)

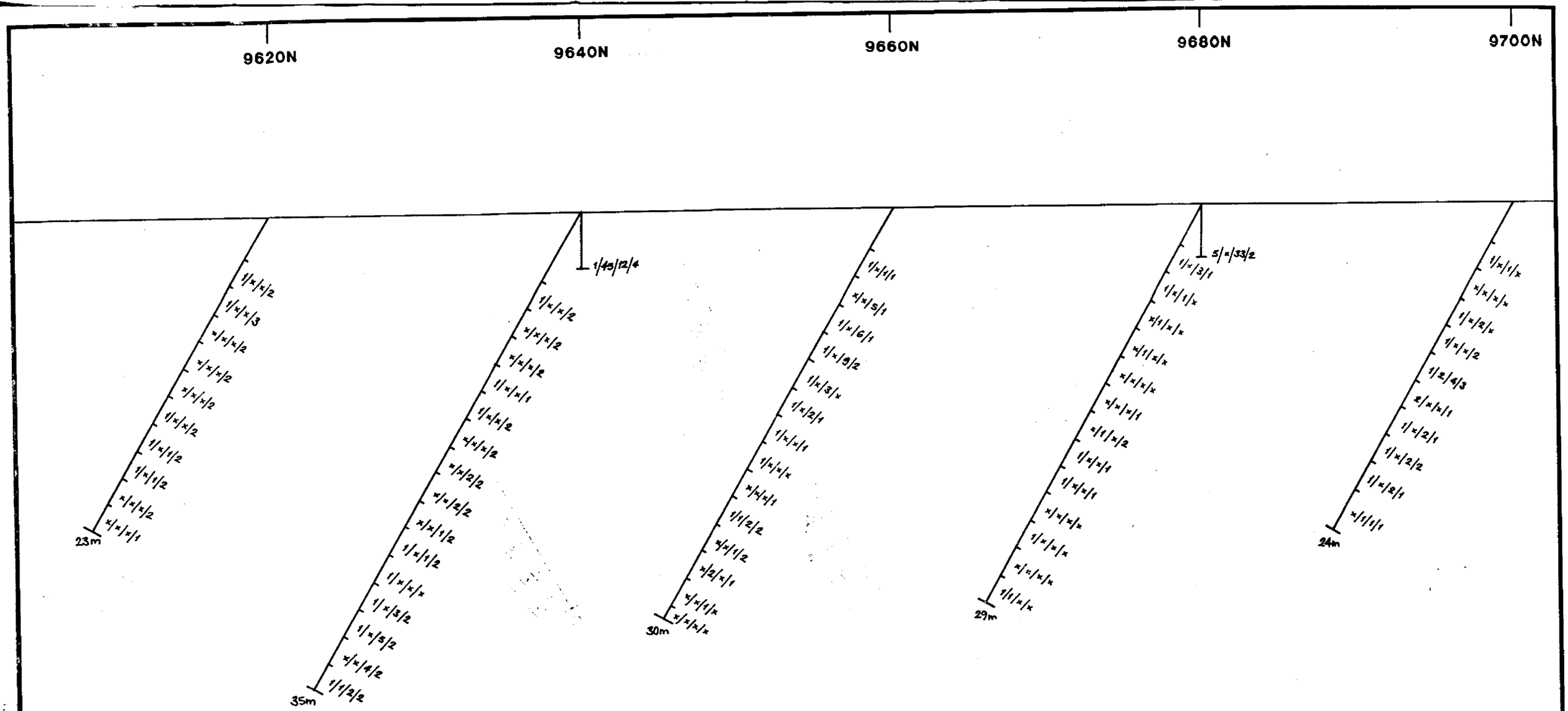
SCALE 1 : 250

ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID

CROSS SECTION 10480E (South)
Looking West

1:250 000 Map Ref: TENNANT CREEK SE53 - 14	
Compiled: K.Fox	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.22

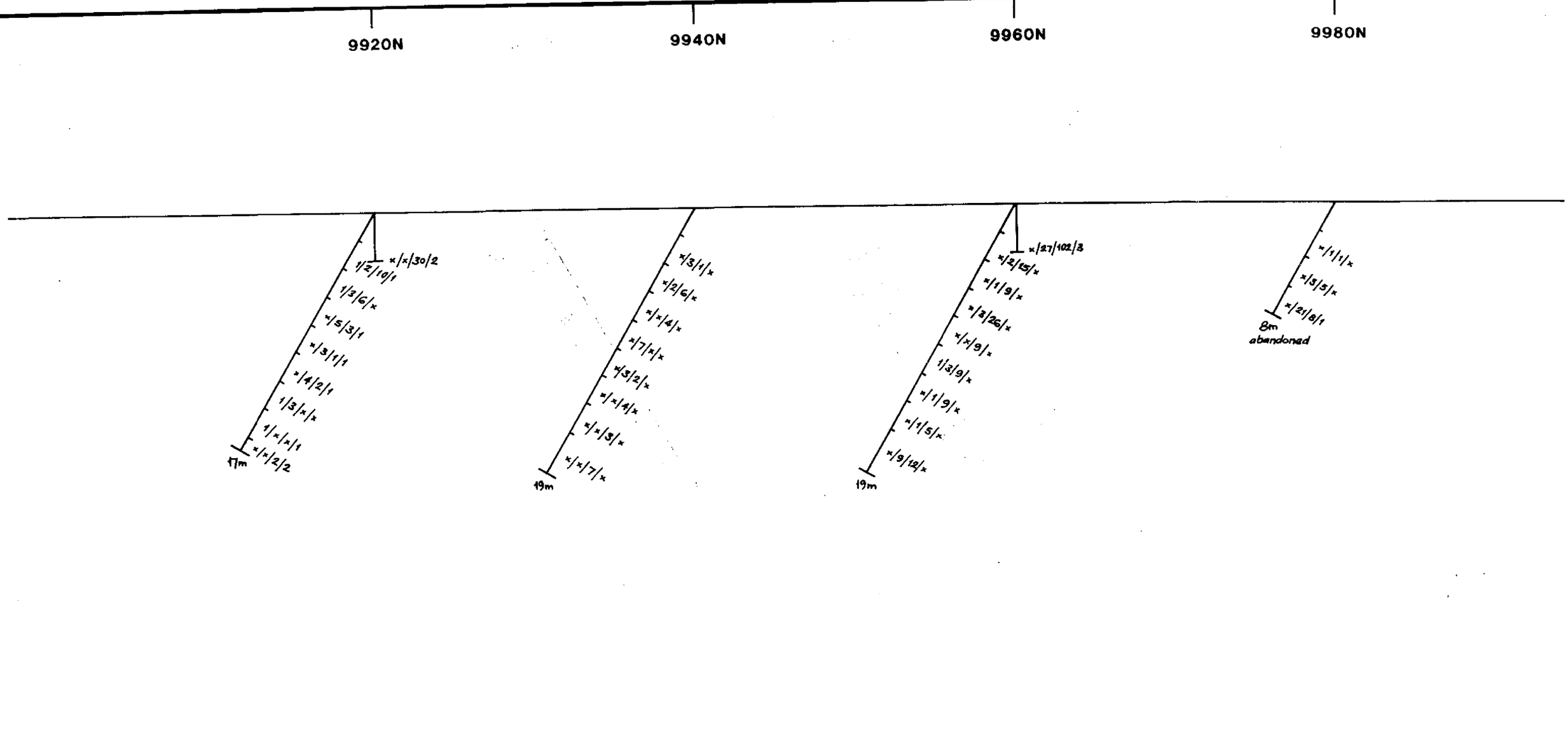


ANGLED HOLES RAB DRILLED
VERTICAL HOLES VACUUM DRILLED
ANALYSES PLOTTED THUS:-

Au / Bi / Cu / Pb
(p.p.b.) (p.p.m.)

SCALE 1 : 250

ROEBUCK RESOURCES N.L.	
TENNANT CREEK N.T. IVANHOE GROUP WEST IVANHOE GRID **CROSS SECTION 10480E (North)** **Looking West**	
1:250 000 Map Ref: TENNANT CREEK SE53 - 14	
Compiled: K.Fox	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.23

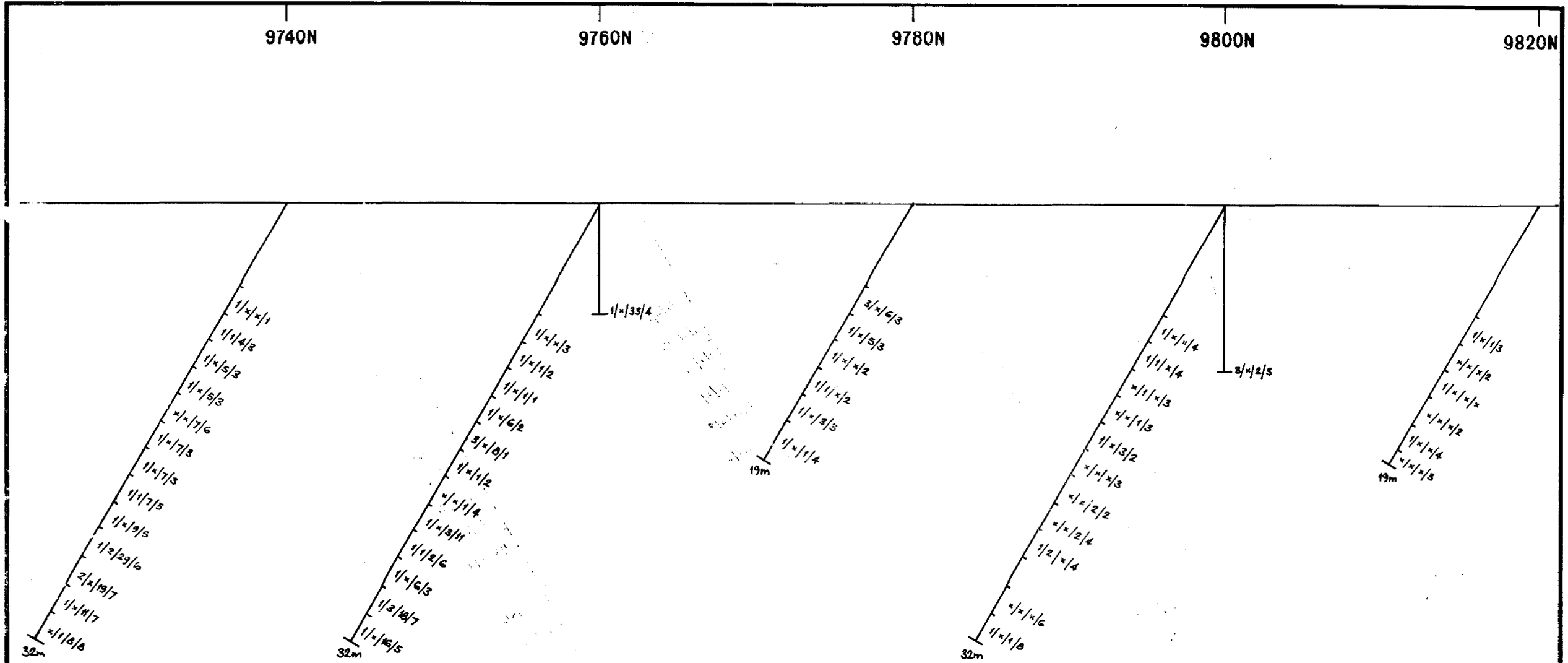


ANGLED HOLES RAB DRILLED
VERTICAL HOLES VACUUM DRILLED
ANALYSES PLOTTED THUS:–

Au / Bi / Cu / Pb
(p.p.b) (p.p.m.)

SCALE 1 : 250

ROEBUCK RESOURCES N.L.	
TENNANT CREEK N.T. IVANHOE GROUP WEST IVANHOE GRID **CROSS SECTION 10720E** **Looking West**	
1:250 000 Map Ref TENNANT CREEK SE53 - 14	
Compiled: K.Fox	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.24



ANGLED HOLES RAB DRILLED
VERTICAL HOLES VACUUM DRILLED
ANALYSES PLOTTED THUS:-

Au / Bi / Cu / Pb
(p.p.b.) (p.p.m.)

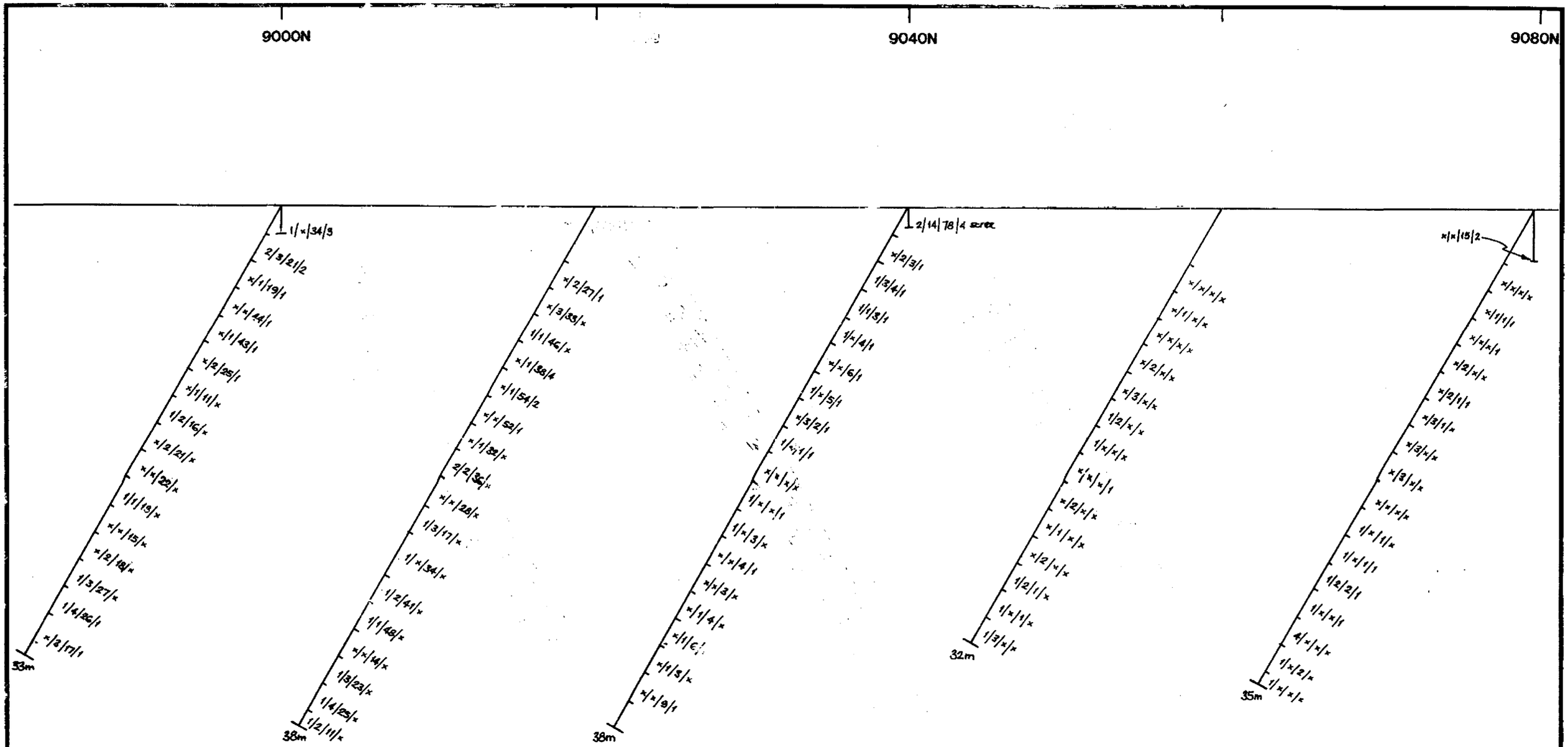
SCALE 1 : 250

ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID

CROSS SECTION 11520E (North)
Looking West

1:250 000 Map Ref: TENNANT CREEK SE53 - 14	
Compiled: K.Fox	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.25



ANGLED HOLES RAB DRILLED
VERTICAL HOLES VACUUM DRILLED
ANALYSES PLOTTED THUS:-
Au / Bi / Cu / Pb
(p.p.b.) (p.p.m.)

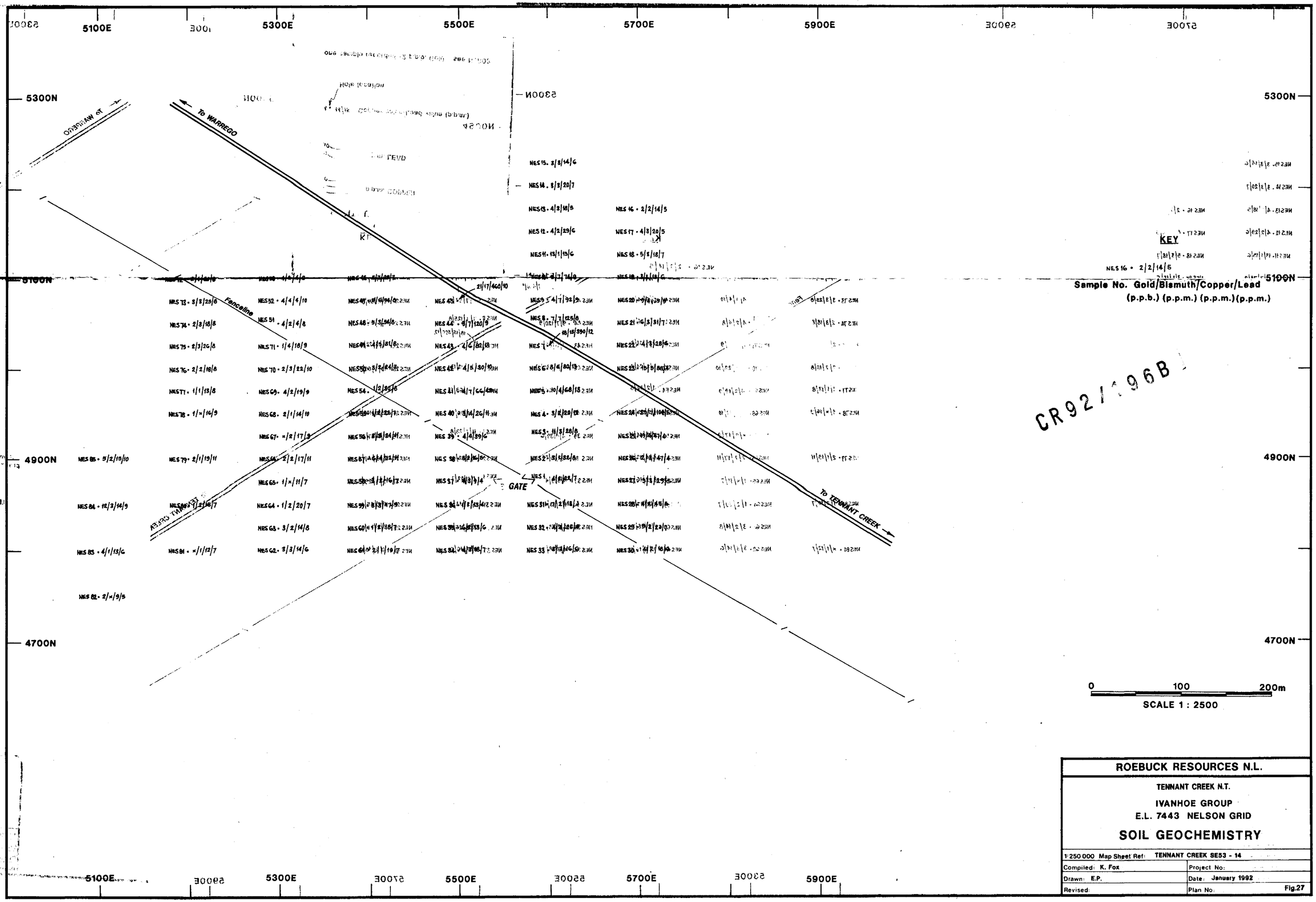
SCALE 1 : 250

ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.
IVANHOE GROUP
WEST IVANHOE GRID

CROSS SECTION 11520E (South) Looking West

1:250 000 Map Ref: TENNANT CREEK SE53 - 14	
Compiled: K. Fox	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.26



KEY

Sample No. Gold/Bismuth/Copper/Lead
(p.p.b.) (p.p.m.) (p.p.m.)(p.p.m.)

CR92/96B

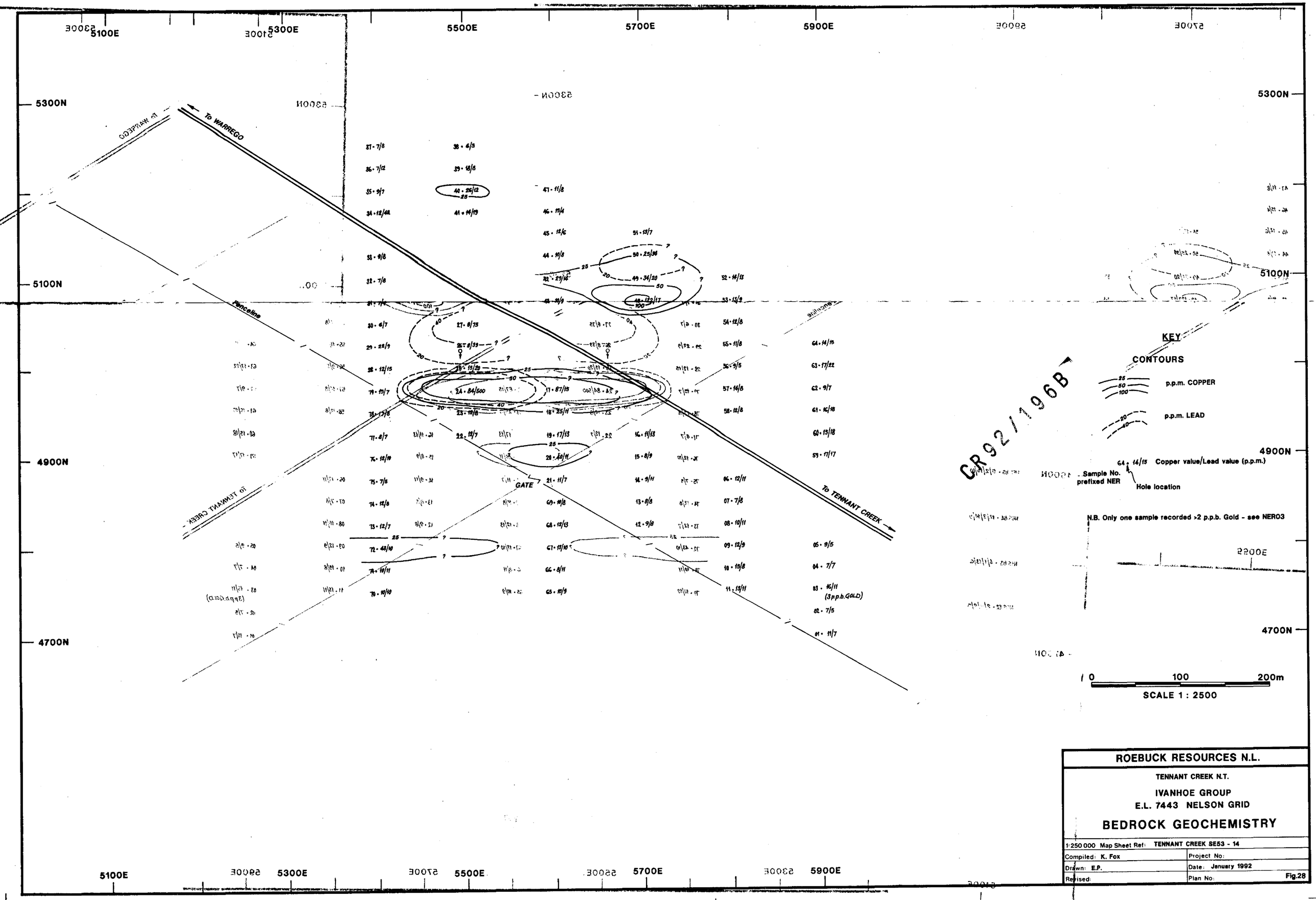
ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.

IVANHOE GROUP
E.L. 7443 NELSON GRID

SOIL GEOCHEMISTRY

1:250 000 Map Sheet Ref: TENNANT CREEK SE53 - 14	
Compiled: K. Fox	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.27



ROEBUCK RESOURCES N.L.

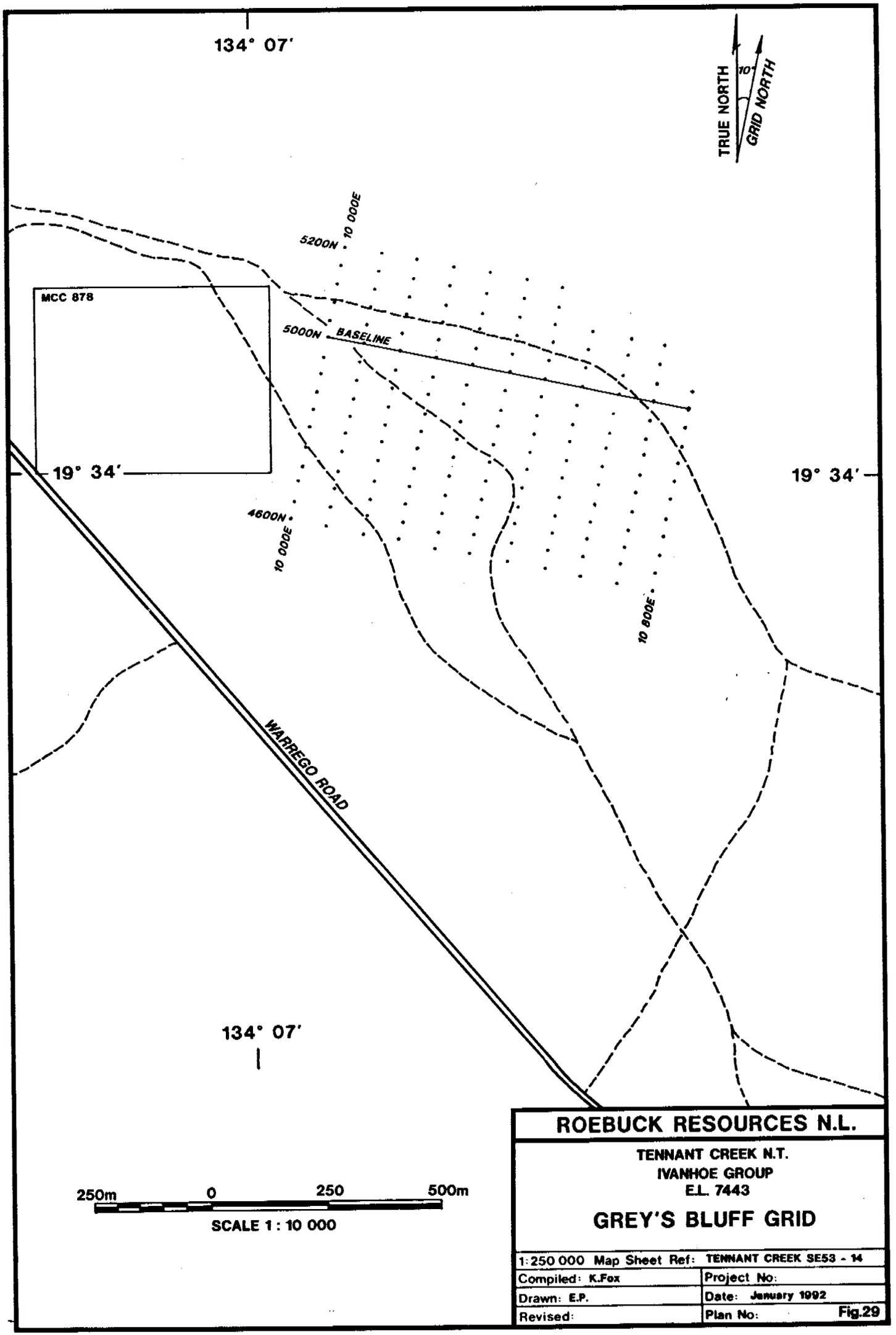
TENNANT CREEK N.T.

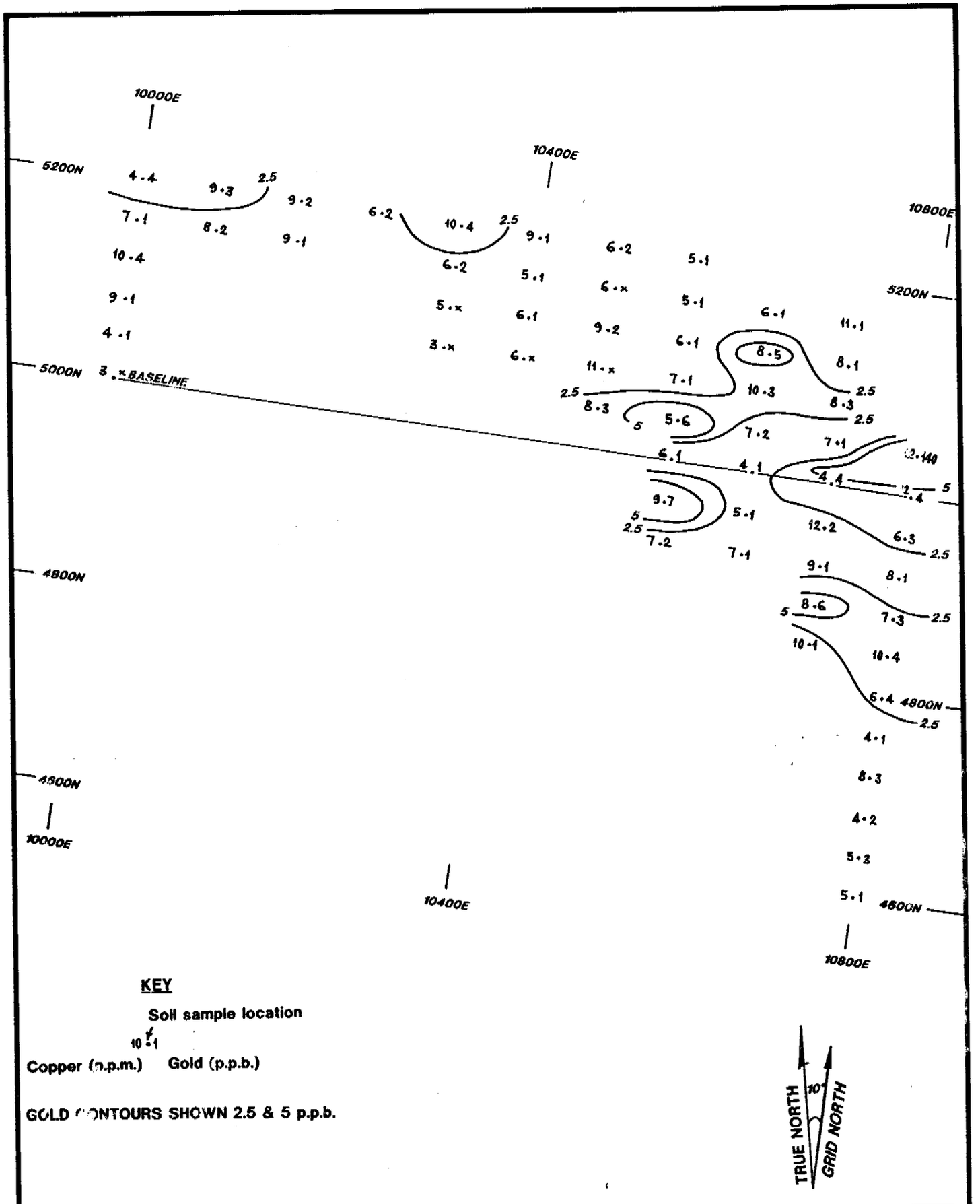
IVANHOE GROUP

E.L. 7443 NELSON GRID

BEDROCK GEOCHEMISTRY

1:250 000 Map Sheet Ref: TENNANT CREEK SE53 - 14	
Compiled: K. Fox	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.28


134° 07'
TRUE NORTH
10°
GRID NORTH
5200N
10 000E
MCC 878
5000N
BASELINE
19° 34'
19° 34'
4600N
10 000E
10 800E
WARREGO ROAD
134° 07'
250m
0
250
500m
SCALE 1 : 10 000
ROEBUCK RESOURCES N.L.
TENNANT CREEK N.T.
IVANHOE GROUP
E.L. 7443
GREY'S BLUFF GRID
1:250 000 Map Sheet Ref: TENNANT CREEK SE53 - 14
Compiled: K.Fox
Project No:
Drawn: E.P.
Date: January 1992
Revised:
Plan No:
Fig.29



ROEBUCK RESOURCES N.L.

TENNANT CREEK N.T.
IVANHOE GROUP E.L. 7443

GREY'S BLUFF GRID
SOIL GEOCHEMISTRY

1:250 000 Map Sheet Ref: TENNANT CREEK SE53 - 14	
Compiled: K. Fox.	Project No:
Drawn: E.P.	Date: January 1992
Revised:	Plan No: Fig.30