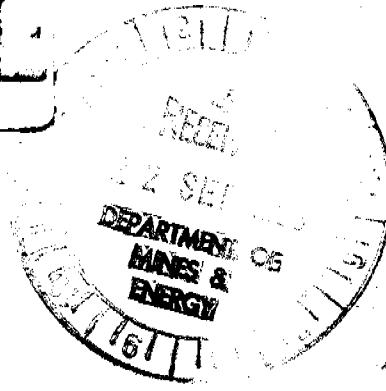


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CR89/610

ANNUAL REPORT ON
EXPLORATION LICENCE 4536

25th July, 1988 - 24th July, 1989

Licence : Peko Wallsend Operations Ltd

Operator : Geopeko (A Division of Peko Wallsend Operations Ltd)

Compiled by : R. Love

Date : September, 1989

Distribution : Department of Mines & Energy - Darwin
Geopeko - Gordon office

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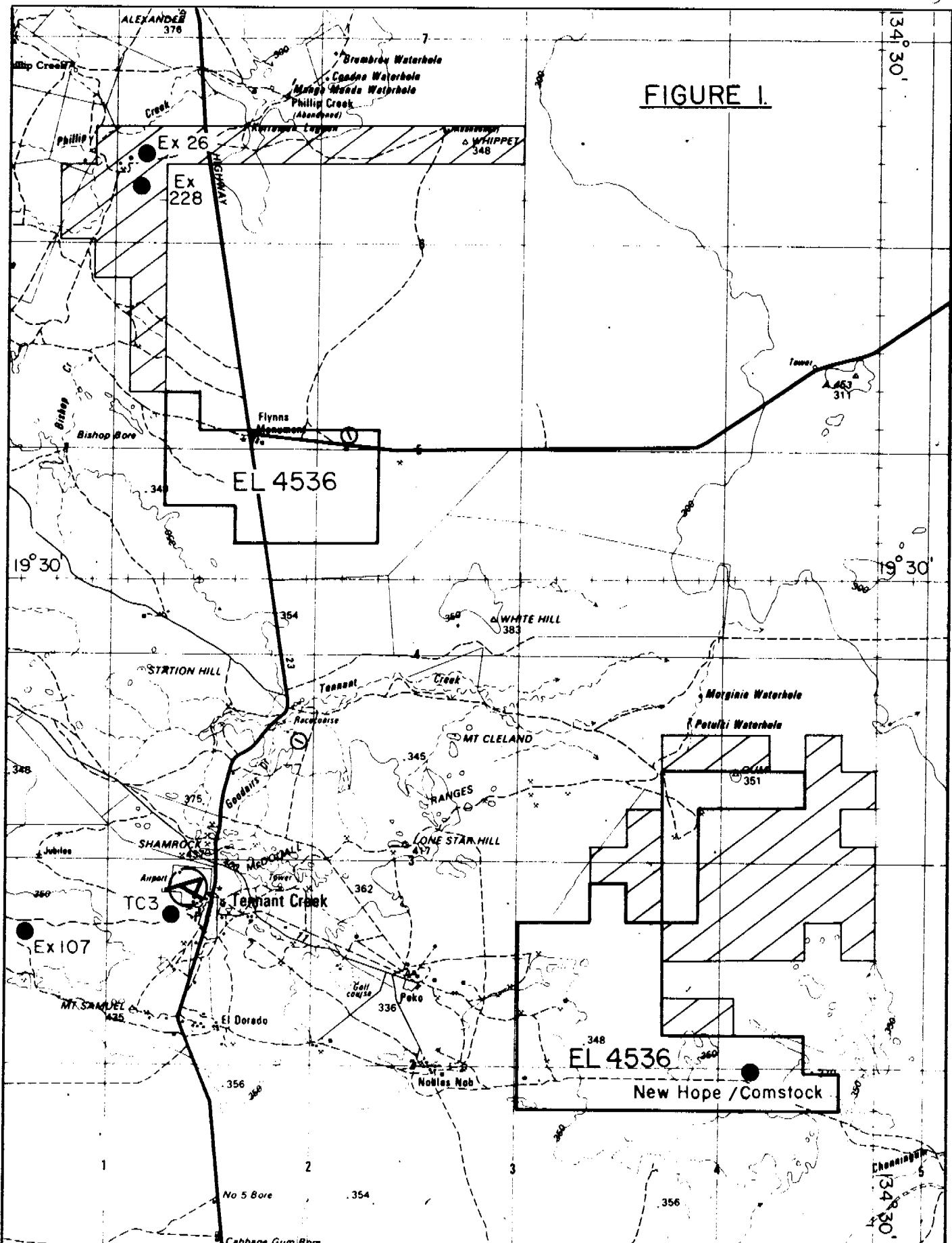
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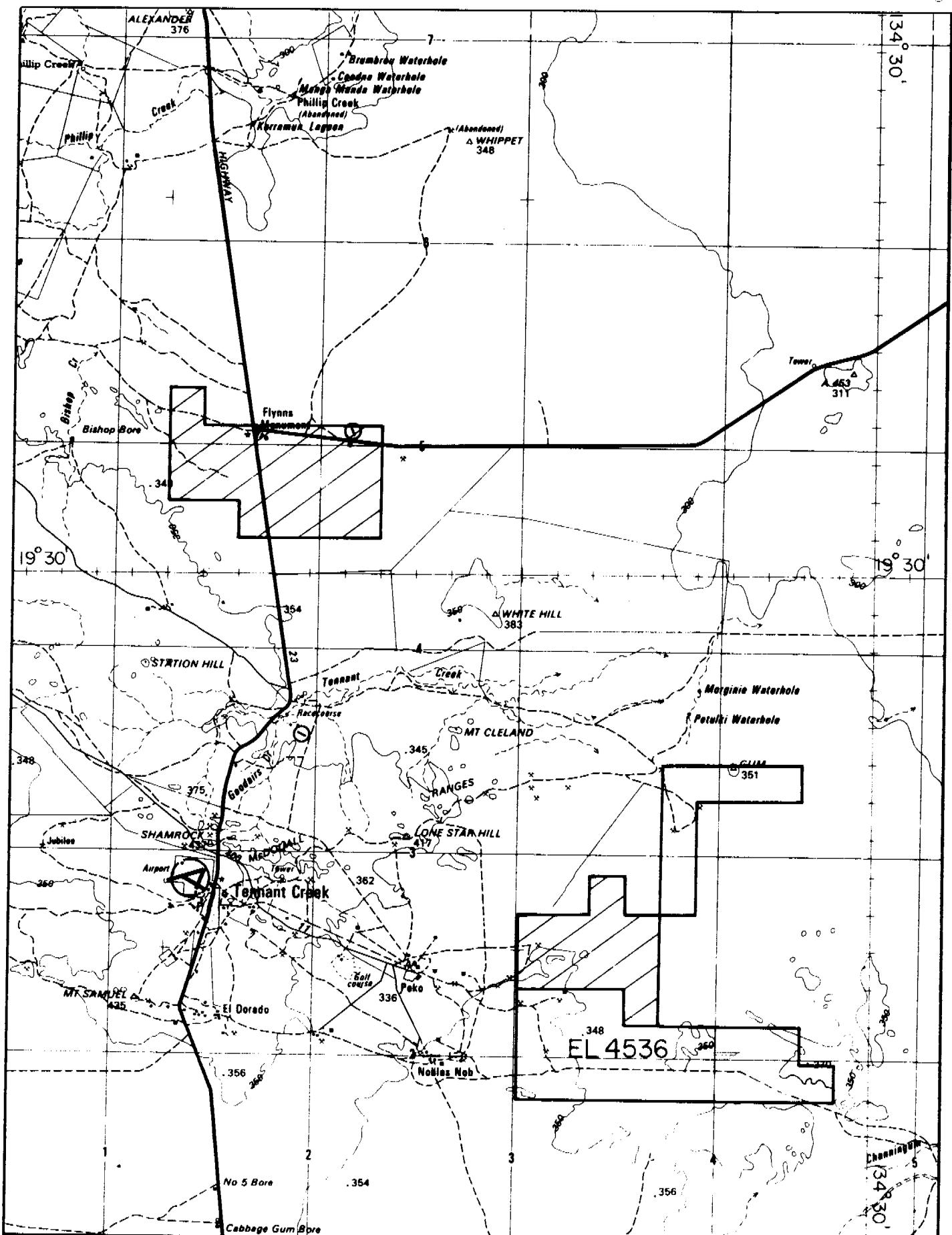
APPENDIX I	Explorer 195, DH2 - Geological Log
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Area to be relinquished
 Area to be retained
 Topo source: Natmap 1:250000 series sheet SE 53-14

TENNANT CREEK
 GEOLOGIST RJL
 DATE 15/6/88
 DRAWN RMN
 CHECKED

GEOPEKO
 A DIVISION OF PEKO-WALLSEND OPERATIONS LTD
 SCALE 1:250000 metres
EL 4536
AREA TO BE RETAINED FOR 5th LICENCE YEAR
 PROJECT CENTRAL FIELD DWG NO. TF4191



Area to be relinquished



Area to be retained

Topo source: Natmap 1:250000 series
sheet SE 53-14



TENNANT
CREEK

GEOLOGIST RJL

DATE 22/6/89

DRAWN KAB

CHECKED

GEOPEKO
A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

25 0 5 10
kilometres

SCALE
1:250000

EL 4536

AREA TO BE RETAINED
FOR 6th LICENCE YEAR

PROJECT CENTRAL FIELD

DWG NO. TF 4317

1. INTRODUCTION

This report covers the exploration activities of Geopeko on EL 4536 during the fifth tenure year (25th July 1988 to 24th July 1989). During this period the license area covered a total of 54 graticular blocks, being located in the vicinity of Tennant Creek (see diagram TF 4191).

Exploration has primarily been directed at the identification of gold, copper and bismuth mineralisation, often associated with bodies of magnetite/hematite, within sediments of the Lower Proterozoic Warramunga Group. The potential for mineralisation to be present in the vicinity of an unconformity at the base of this group has also been investigated. Insufficient encouragement within this area later led to its surrender for the final year of tenure (TF4317).

2. CONCLUSIONS

- (a) No significant geochemical variations have been identified between units on either side of an inferred unconformity located approximately 2 km to the south west of the Monument Trig Station, in the vicinity of Three Ways.
- (b) Drilling at the Explorer 195 prospect has indicated the presence of a small hematite rich ironstone lenses contained within a talcose alteration assemblage.
- (c) Anomalous mineralisation is present within a group of outcropping ironstone bodies located approximately 1.5km to the south of the North Star Mine, and named Explorer 228.

3. RECOMMENDATIONS

- (a) A compilation of existing data on the Explorer 195 prospect should be undertaken to assess the potential for strike and dip extensions to the zone of alteration. This may be accomplished through an evaluation of the magnetic data (surface and downhole) together with structural information gained from the geological logs of DHs 1 and 2.
- (b) Mineralisation detected at the Explorer 228 prospect may be followed up through a program of R/C drilling.
- (c) Surface chip sampling and possibly R/C drilling should be undertaken on the Metallic Hill and Renate ironstone in order to identify shallow, high grade Au/Cu/Bi mineralisation.
- (d) A regional soil/bedrock sampling program should be initiated to test for broad mineralogical and geochemical anomalies related to non ironstone hosted mineralisation.

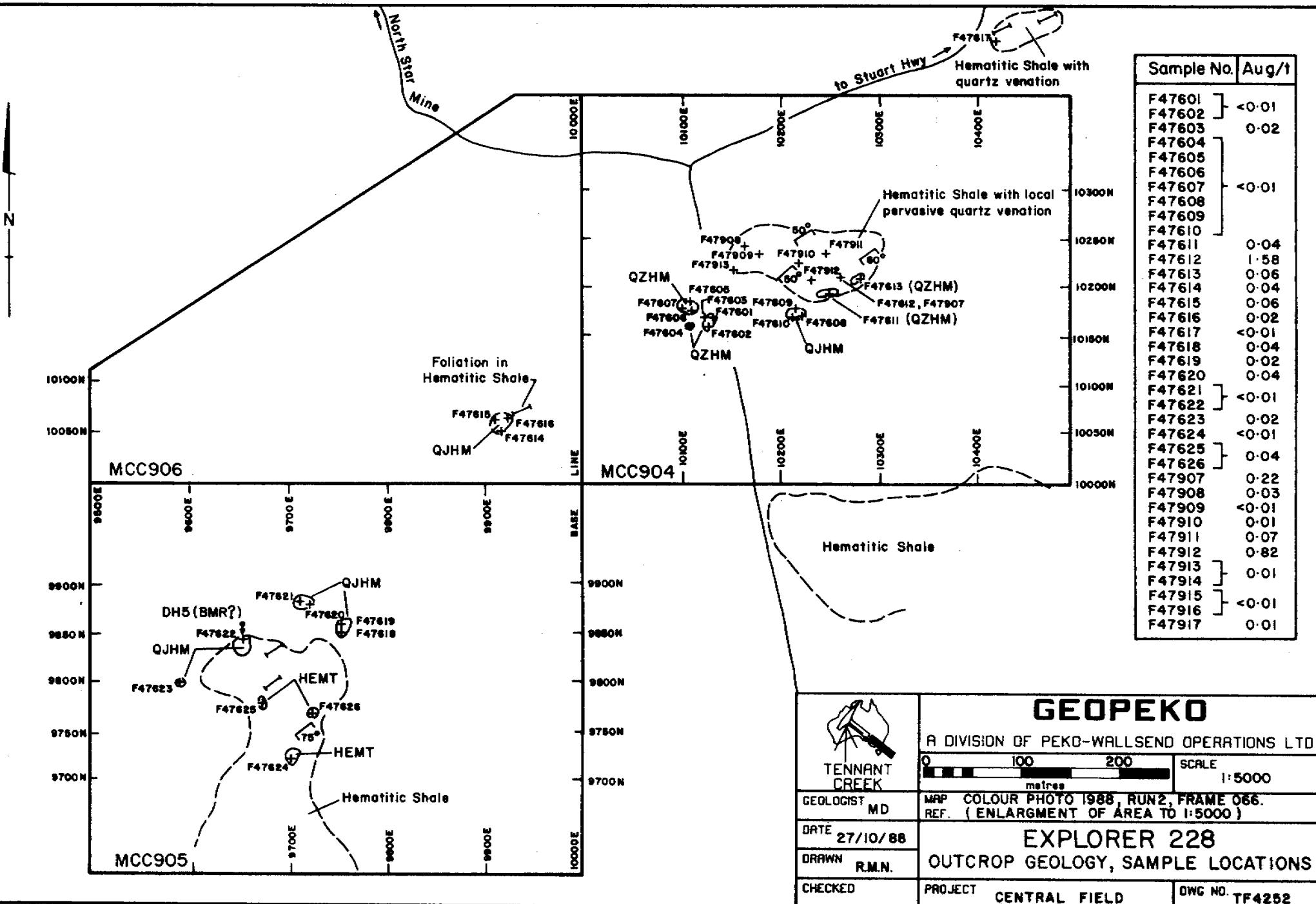
4. WORK CARRIED OUT DURING THE FIFTH LICENSE YEAR

4.1 EXPLORER 195

Review of the data obtained from DH1, drilled at the Explorer 198 prospect during 1984, suggested that there was an opportunity for downplunge extensions to the lode encountered between 80m-140m below surface. Interpretation of the surface magnetic profiles indicated that should these extensions be present they would most likely be steeply dipping to the south and hence a new percussion diamond drill hole was collared at 995E/959N (prospect grid coordinates) and directed on a bearing of 360° magnetic towards a target 170m vertically below 1000E/1030N. Drilling failed to intersect this target due to excessive and unplanned, steepening of the hole however a number poorly mineralised intervals of ironstone were encountered (see Appendix I for details). A subsequent downhole magnetic survey along this hole, the results of which are still awaited, failed to identify any new targets of significance and hence further drilling has been deferred until a more comprehensive compilation of all existing geological and analytical data can be performed.

4.2 EXPLORER 228

As part of a regional review of geochemical data an occurrence of anomalous bismuth was noted from a sample collected by the B.M.R. during the early 1970's. This result was followed up with the collection of 37 rock chip samples from 9 outcrops of both hematite rich ironstone as well as hematitic shale located approximately 1.5km south of the North Star Mine (TF4252).



Anomalous analytical results were returned for samples taken within a hematitic shale (see Appendix II for details) while samples of ironstone generally gave Au values near the detection limit of 0.01g/t. These values, together with several anomalous Bi results, led to the pegging of a local grid which was then traversed using a Geometrics G816 magnetometer with a sensor terrain clearance of 4.88m. The magnetic profiles produced from this survey were consistent with low susceptibility, shallow ironstone bodies. Further exploration is expected to include R/C drilling to test each of the three outcropping areas, and possibly a soil sampling program to test for additional occurrences of non outcropping /non ironstone hosted mineralisation.

Following this work three Mineral Claims (MCC's 904-906) were pegged, and granted, over this prospect area.

4.3 B.L.E.G. SAMPLING

As part of a program of assessing alternative styles of mineralisation a trial soil/bedrock sampling program was undertaken across an inferred unconformity between the Warramunga Group and an underlying unit thought to be correlated with Arunta Division 1 rocks. Although there were no exposures of this unconformity in the E.L. a segmented traverse line was positioned so as to be likely to cover the boundary as well as pass well into the underlying unit. This traverse is located in the vicinity of the Monument Trig Station, approximately 20km north of Tennant Creek .

A report detailing the results of this survey is enclosed in Appendix III.

5. EXPENDITURE

Total expenditure on EL4536 during the fifth year of tenure was \$33875. This figure has been derived from Geopeko monthly financial statements for the 12 month period 1.8.88 to 31.7.89 as costs are reconciled on a calendar month basis.

A breakdown of that expenditure is as follows:

<u>Category</u>	<u>Expenditure (\$)</u>
Salaries - Geologists	2621
Other Technical & General	1223
Field Assistants	70
Tenement Expenses	3188
Vehicles	834
Freight and Supplies	87
Drilling - Soil Probe	2929
Percussion	3720
Diamond	13116
Analytical Costs	2182
Geophysics - Ground	520
Survey and Griding	211
Base Support Costs	1998
Management Charges	1176
Total	33875

The covenant set for the same period was \$63500. the variation in expenditure has been due to a modification of the exploration program in which a proposed E.M survey and approximately 500 metres of R/C drilling, were not completed during the tenure year. This together with the reduction in flow-on support costs led to a short fall of \$29625, or 46.6% of the proposed expenditure. This compares with an over expenditure of \$127492 during the previous year.

6. PROPOSED PROGRAM AND EXPENDITURE FOR SIXTH LICENSE YEAR

The proposed program for the sixth license year is expected to cover the following:

- (a) Evaluate the Explorer 195, Metallic Hill and Renate prospects for shallow, and potentially non ironstone hosted mineralisation, by either R/C or percussion/Diamond drilling.
- (b) Undertake a regional soil/bedrock sampling program in order to identify mineralogical and geochemical anomalies related to non ironstone hosted mineralisation.

In order to undertake this program a budget of \$67,000 is proposed.

APPENDIX I

EXPLORER 195, DH2 - Geological Log



GEOPEKO

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DRILLHOLE SUMMARY SHEET

16

PROSPECT/MINE : EXPLORER 195 HOLE NO. : H:2

LOCATION : 1.2 KMS S.E. OF GUM RIDGE TRIG.

Purpose of Hole :

Proposed Collar Parameters

Easting : 995.00E
Northing : 959.00N
Azim (grid) : 360°
Azim (mag) : 360°
Dip : -70°

Proposed by : R. LOVE

Surveyed Collar

Easting : 995.00E
Northing : 959.00N
R.L. : 1000
Azim (grid) : 360°
Azim (mag) : 360°
Dip : -70°

Surveyed by :

Target Parameters

Easting : 1000E
Northing : 1030N

Depth below surface :
Hole depth to target : 128M

Drilling Technique

PERCUSSION
DIAMOND

Interval(m)

0 - 120
102 - 238

Hole Size

NQ

Actual Final Depth : 238M Date Commenced : Drilled by : STADCOTE PTY LTD
Terminated by : R. MAHER Date Completed : Rig Type : LONGYEAR 1000
Logged by : J. FREYBERG
Reason for Termination : LODE INTERSECTED.

Economic Summary :

<u>Lode Type</u>	<u>Interval(m)</u>	<u>Significant Intersections</u>
------------------	--------------------	----------------------------------

General Remarks :

1Ver3.1

G E O P E K O

17/10/1988 8:29:

*** PROSPECT : EXPLORER 195 ***

*** HOLE : DH2 ***

Collar Coordinates 995.00 E 959.00 N 1000.0 RL

Azimuth correction = .00

Interpolation inc = 5.0

SURVEYS (Azimuth wrt Grid North)

DEPTH	DIP	AZIMUTH	EASTING	NORTHING	RL
.00	-70.00	360.00	995.00	959.00	1000.00
70.00	-75.00	364.00	995.82	979.57	933.12
147.00	-77.00	363.00	997.06	998.14	858.41
188.00	-78.00	359.00	997.31	1007.01	818.38
200.00	-79.00	352.00	997.14	1009.40	806.62
238.00	-81.00	341.00	995.55	1015.74	769.19

INTERSECTIONS along the EASTING

Depth	East	Northing	Plane R.L
-------	------	----------	-----------

INTERSECTIONS along the NORTHING

Depth	East	Northing	Plane R.L
-------	------	----------	-----------

3.0	995.00	960.00	997.22
71.7	995.85	980.00	931.51
155.4	997.16	1000.00	850.26

INTERSECTIONS along the RL

Depth	East	Northing	Plane R.L
-------	------	----------	-----------

.0	995.00	959.00	1000.00
10.6	995.03	962.54	990.00
21.2	995.11	965.89	980.00
31.6	995.22	969.06	970.00
42.1	995.36	972.07	960.00
52.5	995.52	974.95	950.00
62.9	995.70	977.71	940.00
73.2	995.88	980.40	930.00
83.6	996.07	983.03	920.00
93.9	996.26	985.61	910.00
104.2	996.44	988.14	900.00
114.5	996.61	990.62	890.00
124.8	996.77	993.05	880.00
135.1	996.92	995.43	870.00
145.4	997.05	997.77	860.00
155.6	997.16	1000.06	850.00
165.9	997.26	1002.30	840.00
176.1	997.31	1004.51	830.00
186.3	997.32	1006.66	820.00
196.6	997.21	1008.73	810.00
206.7	996.93	1010.64	800.00
216.9	996.54	1012.41	790.00
227.1	996.09	1014.07	780.00
237.2	995.59	1015.62	770.00

GEOPEKO - DRILLING LOG SHEET

PROSPECT EXPLORER 195

HOLE No: H:2

PAGE 1 OF 5

GEOLOGICAL LOG	Mineral Percentages							Sample Number	Interval From To	Au ppm	Cu ppm	Bi ppm
	HEM	MAG	TAL	QTZ								
Cpy & Chlorite * 115.7 60° Parallel to bedding Qtz Vein 122-122.2 18°												
Fracture 117-117.2 12° Opposite angle to bedding - limonite stained.								4824	127.6-128.2	0.01	13	<10
128.2-128.85m QUARTZ HEMATITE MAGNETITE Hematite with minor magnetite in it. The hematite (specularite) has a massive texture that is broken by quartz veins. Quartz veins vary from 1mm to up to 20mm in width. Some veins run at 45° to LCA. Lode also contains very minor dark green talc in small blebs about 4mm long.	60	5	1	34				48225	128.2 - 129	0.01	80	30
128.85-129m HEMATITE (SPECULARITE) The specularite is coarse grained (1-2mm) in size, and the unit is massive.	100											
129-132.2m TALC HEMATITE MAGNETITE Specularite, with very minor magnetite, is found as blebs that are generally elongated along what is presumed to be cleavage (varies from 25 to 40° to the LCA). The edges of the specularite are embayed and contain talc, talc filled fracture also cut the specularite blebs. The fractures in the hematite are usually parallel to the short axis of the fragment. Talc comes in the varieties light green flakes or dark green flakes. The colour of the dark green flakes may be due to associated with chlorite. The two types of the talc are either intergrown or the dark green variety occurs separately. There are a range of sizes for the hematite, from only a few mm to large patches up to 4cm across. The larger fragmetns of hematite are not as embayed as the smaller fragments. The proportion of the hematite f5gments to the talc matrix varies, this can be seen by the percentages. Thin carbonate veins cut the core - fine only a few mm thick.	40	60						48226	129 - 130	0.01	24	25
	35	65						27	130 - 131	0.01	9	<10
	40	60						28	131 - 132.2	0.01	5	<10

GEOLOGICAL LOG	Mineral Percentages							Sample Number	Interval From	Interval To	Au ppm	Cu ppm	Bi ppm
	HEM	MAG	TAL	QTZ									
132.2-135.6m TALC HEMATITE Majority of the rock is made up of talc - both the light green and dark green varieties. The dark green variety is found as blebs which vary in size from a few mm to 2cm. The dark green talc blebs have been fractured, these fractures are filled with light green talc. Specularite is found in the core in the light green talc, it forms irregular shapes and fills some of the fractures in the dark green talc. The dark green talc fragments may have originally been sediment, with the talc and hematite being later stage events. There is a shear down the centre of the core to 133.3m which contains CO ₂ and varies from 0.5cm to 1cm in width. The shear is about 10° to the LCA and contains talc which is lined up along the direction of the shear. One side of the shear contains fragments of dark green talc and the other doesn't. The side without the dark green talc fragments has hematite fragments, similar to 129-132.2m.	7		93					48229	132.2 - 133	0.03	<2	<10	
	10		90					48231	133 - 134	<0.01	5	<10	
	10		90					48232	134 - 135	<0.01	8	<10	
	7		93					48233	135 - 136	0.03	<2	<10	
135.6-144.4m TALC HEMATITE Similar to 129-133.2. Specularite fragments are of varying size with light green talc in between. From 141.4 to 144m specularite is a mixture of light and dark green talc. In the rest of the interval the hematite fragments are in the light green talc. Also find blebs of dark green talc like the previous interval. A foliation is present in the core. * 137.3 35° to LCA 141.5 20° to LCA	10	90						48234	135.6 - 136	0.01	6	<10	
	40	60						35	136 - 137	0.01	9	<10	
	50	50						36	137 - 138	<0.01	7	<10	
	45	55						37	138 - 139	<0.01	11	<10	
	35	65						38	139 - 140	<0.01	8	<10	
	25	75						39	140 - 141	0.01	110	<10	
	20	80						48241	141 - 142	0.01	8	<10	
	20	80						42	142 - 143	<0.01	2	<10	
	20	80						43	143 - 144.4	<0.01	3	<10	
144.3-144.4m The core is very weathered and the talc has altered to white clay.	40	60						48244	144.5 - 145	0.01	13	<10	
144.4-145m QUARTZ HEMATITE Intergrown quartz and specularite. Quartz is often vughy and the vughs are iron stained. At top also have remanent blebs of talc that have been weathered to a clay. Some of the quartz is in the form of veins, the rest is intergrown with the hematite. Quartz veins 50° to LCA.													

GEOLOGICAL LOG	Mineral Percentages							Sample Number F	Interval From To	Au ppm	Cu ppm	Bi ppm
	HEM	MAG	TAL	QTZ								
145-172.5m INTERBEDDED SILTSTONE AND GREYWACKE Light grey siltstone interbedded with lesser fine grained greywacke. The beds average 5-10cm in thickness, with quite a few of the greywacke beds showing fining towards the collar. Breaks in the core, which include those parallel to bedding and other oblique fractures, are often limonite stained, suggesting the movement of oxidising fluids. Quartz veins cut the core in various places, and often veins do not cross the bedding boundaries. The larger quartz veins are often vugly.												
Vein	Depth	LCA	LDHP									
Vein	145.1	21°	230°									
	156.8	25°										
145-145.5	Core very broken - mainly along bedding											
145-145.1	Core very altered											
161-161.5	Core broken - limonite stained. Increase in % chlorite											
167.7-168.55	As above.											
168.7-168.9	Large quartz vein, which has fragments of chloritised sediment in it - some of quartz and sediment limonite stained.											
172-172.5	Core broken - limonite stained. Increase in chloritic alteration.											
Bedding	Depth	LCA	LDHP									
Bedding	146.2	50°	250°	37/089								
"	* 148.9	40°	220°	42/052								
"	150.5	40°	200°	38/028								
"	152.2	50°										
"	154.9	50°										
"	158.75	55°										
"	163.2	53°										
"	164.6	50°										
"	169.5	40°										
"	* 170.5	40°										
"	713.5	32°										
"	175.2	40°										

GEOLOGICAL LOG			Mineral Percentages						Sample Number	Interval From To	Au	Cu	Bi
172.5-238m	INTERBEDDED HEMATITE SHALE AND GREYWACKE												
	Thin interbeds of red purple hematitic shale and light green grey fine grained greywacke. The average thickness of the siltstone bed is 2-5cm. Limonite staining is found on many of the fractures in the core. The hematite in the siltstone is thought to be due to the movement of an oxidation front through the Ex 195 area.												
175.9-176	Quartz vein has chlorite trapped in it.												
	Contact 40% to LCA.												
	Depth	LCA	LDHP										
Bedding	176.9	40°											
	180.6	50°											
	183.1	50°	205°	31/035 24/032									
	185.9	45°	190°	33/013									
*	187.6	50°	190°	28/014									
	189.05	51°	190°	27/014.5									
	190.95	52°	190°	27/014									
	193.75	58°											
	196.4	50°											
	199.6	56°											
	201.3	50°	150°	31/314 319									
	203.5	60°	145°	22/303 301									
	205.4	55°	140°	27/299 295									
	207.2	55°	140°	27/299 295									
	209.7	62°	140°	20/212 299									
	212.7	61°	140°	19/212 299									
>	215.85	57°	140°	25/216 302									
	219.5	67°	145°	15/205 297									
	222	63°	150°	18/227 301									
	226.45	67°											
	231.95	62°											
	236.25	62°											
Fracture	217.85-217.95	20°	230°										

GEOPEKO
MAGNETIC SUSCEPTIBILITY READINGS

PROSPECT EXPLORER 195

DATE 7.10.88

INSTRUMENT

HOLE NO. H:2

USER M. SPRATT

SERIAL NO.

SPACER (mm)

CORE SIZE NQ

DEPTH (m)	SUSCEPTIBILITY		DEPTH (m)	SUSCEPTIBILITY		DEPTH (m)	SUSCEPTIBILITY	
	MIN	MAX		MIN	MAX		MIN	MAX
102	0.0	0.0	231	0.3	0.4			
105	0.0	0.2	234	0.4	0.5			
108	0.0	0.0	237	0.4	0.5			
111	0.0	0.1						
114	0.0	0.2						
117	0.0	0.1						
120	0.0	0.1						
123	0.0	0.1						
126	0.0	0.1						
129	0.0	0.6						
132	0.0	0.2						
135	0.1	0.1						
138	0.1	0.2						
141	0.0	1.1						
144	0.0	0.2						
147	0.0	0.1						
150	0.0	0.1						
153	0.1	0.2						
156	0.0	0.1						
159	0.0	0.2						
162	0.0	0.1						
165	0.0	0.1						
168	0.0	0.1						
171	0.0	0.1						
174	0.0	0.1						
177	0.0	0.1						
180	0.0	0.0						
183	0.2	0.4						
186	0.2	0.3						
189	0.2	0.4						
192	0.2	0.3						
195	0.1	0.2						
198	0.2	0.3						
201	0.2	0.3						
204	0.2	0.3						
207	0.2	0.3						
210	0.3	0.4						
213	0.3	0.4						
216	0.2	0.3						
219	0.2	0.3						
222	0.3	0.3						
225	0.3	0.4						
228	0.3	0.4						

PROSPECT : EXPLORER 195

HOLE No. : 2

PAGE No.:1

DEPTH :	DEPTH :	ROCK :	WEATH.:	ALTN.:	ROCK :	BEDD:	CLEAV:	C.B.A :	C.C.A :	SENSE:	CORE :	RDD :	COMMENTS
FROM :	TO :	TYPE :	A :		STR.:	ING :	AGE :	S0 :	S1 :	S0-S1:	REC.X :	% :	SHEARS, JOINTS, FAULTS, ETC.
: 102.00	: 103.00	: STGW	: SW	: 1	: S	: 2	: 1	: 62	:	:	: 100	: 87	: 102.8-103.4m Fault zone - intensely quartz veined.
: 103.00	: 104.00	: STGW	: SW	: 1	: S	: 2	: 1	:	:	:	: 100	: 43	:
: 104.00	: 105.00	: STGW	: SW	: 1	: S	: 2	: 1	:	:	:	: 100	: 84	:
: 105.00	: 106.00	: STGW	: SW	: 1	: S	: 2	: 2	:	:	:	: 100	: 100	: Slumped sediment.
: 106.00	: 107.00	: STGW	: SW	: 1	: S	: 2	: 2	:	:	:	: 100	: 100	:
: 107.00	: 108.00	: STGW	: SW	: 1-2	: S	: 2	: 2	:	: 55	:	: 100	: 73	:
: 108.00	: 109.00	: STGW	: SW	: 2	: S	: 2	: 1	:	:	:	: 100	: 76	:
: 109.00	: 110.00	: STGW	: SW	: 2	: S	: 2	: 1	:	:	:	: 100	: 80	:
: 110.00	: 111.00	: STGW	: SW	: 2	: S	: 3	: 1	: 60	:	:	: 100	: 67	:
: 111.00	: 112.00	: STGW	: SW	: 2	: S	: 2	: 1	:	:	:	: 100	: 80	:
: 112.00	: 113.00	: STGW	: SW	: 2	: S	: 2	: 1	:	:	:	: 100	: 86	:
: 113.00	: 114.00	: STGW	: SW	: 2	: S	: 3	: 1	: 65	:	:	: 100	: 39	:
: 114.00	: 115.00	: STGW	: SW	: 1-2	: S	: 2	: 1	:	:	:	: 100	: 79	:
: 115.00	: 116.00	: STGW	: SW	: 1-2	: S	: 2	: 1	: 60	:	:	: 100	: 93	:
: 116.00	: 117.00	: SLST	: SW	: 1-2	: S	: 3	: 1	:	:	:	: 100	: 97	:
: 117.00	: 118.00	: SLST	: SW	: 1-2	: S	: 3	: 1	:	:	:	: 100	: 48	:
: 118.00	: 119.00	: STGW	: SW	: 1-2	: S	: 3	: 1	: 70	:	:	: 100	: 92	:
: 119.00	: 120.00	: STGW	: SW	: 1-2	: S	: 2	: 1	:	:	:	: 100	: 75	:
: 120.00	: 121.00	: STGW	: SW	: 1-2	: S	: 2	: 1	:	:	:	: 100	: 85	:
: 121.00	: 122.00	: GWKE	: SW	: 1	: S	: 1	: 1	:	:	:	: 100	: 90	:
: 122.00	: 123.00	: SLST	: SW	: 1	: S	: 2	: 1	: 65	:	:	: 100	: 35	:
: 123.00	: 124.00	: SLST	: SW	: 1	: S	: 3	: 1	: 65	:	:	: 100	: 100	:
: 124.00	: 125.00	: SLST	: SW	: 1	: S	: 3	: 1	:	:	:	: 100	: 100	:
: 125.00	: 126.00	: SLST	: SW	: 2	: S	: 3	: 1	: 62	:	:	: 100	: 50	:
: 126.00	: 127.00	: SLST	: SW	: 2	: M	: 2	: 1	:	:	:	: 100	: 42	: 126.15-20m Thin chlorite band.
: 127.00	: 128.00	: SLST	: SW	: 3-4	: W	: 1	: 1	:	:	:	: 100	: 22	:
: 128.00	: 129.00	: 9ZHT	: FR	: 1	: S	: 1	: 1	:	:	:	: 95	: 74	:
: 129.00	: 130.00	: TLHT	: FR	: 1	: M	: 1	: 1	:	:	:	: 100	: 98	: Lode has heavy talc alteration.
: 130.00	: 131.00	: TLHT	: FR	: 1	: M	: 1	: 1	:	:	:	: 100	: 100	:
: 131.00	: 132.00	: TLHT	: FR	: 1	: M	: 1	: 1	:	:	:	: 100	: 95	:
: 132.00	: 133.00	: TLHT	: FR	: 1	: M	: 1	: 1	:	:	:	: 100	: 100	: Shear running 10 degrees to LCA.
: 133.00	: 134.00	: TLHT	: FR	: 1	: M	: 1	: 1	:	:	:	: 100	: 90	:
: 134.00	: 135.00	: TLHT	: FR	: 1	: M	: 1	: 1	:	:	:	: 100	: 72	:
: 135.00	: 136.00	: TLHT	: FR	: 1	: M	: 1	: 1	:	:	:	: 100	: 85	:
: 136.00	: 137.00	: TLHT	: FR	: 1	: M	: 1	: 1	:	:	:	: 100	: 100	:

PROSPECT : EXPLORER 195

HOLE No. : 2

PAGE No.:2

DEPTH	DEPTH	ROCK	WEATH.	ALTN.	ROCK	BEDD	CLEAV	C.B.A	C.C.A	SENSE	CORE	RQD	COMMENTS
FROM	TO	TYPE			STR.	ING	AGE	S0	S1	S0-S1	REC.%	%	SHEARS, JOINTS, FAULTS, ETC.
: 137.00	: 138.00	: TLHT	: FR	:	1	: M	:	1	:	1	:	100	: 87 : 137.5m Foliation 35 degrees.
: 138.00	: 139.00	: TLHT	: FR	:	1	: M	:	1	:	1	:	100	: 100 :
: 139.00	: 140.00	: TLHT	: FR	:	1	: M	:	1	:	1	:	100	: 100 :
: 140.00	: 141.00	: TLHT	: FR	:	1	: M	:	1	:	1	:	100	: 100 :
: 141.00	: 142.00	: TLHT	: FR	:	1	: M	:	1	:	1	:	100	: 100 : 141.5m Foliation 20 degrees.
: 142.00	: 143.00	: TLHT	: FR	:	1	: M	:	1	:	1	:	100	: 100 :
: 143.00	: 144.00	: TLHT	: FR	:	1	: M/S	:	1	:	1	:	100	: 100 :
: 144.00	: 145.00	: TLHTQZHT	: FR	:	1	: S	:	1	:	1	:	100	: 92 :
: 145.00	: 146.00	: SLST	: FL	:	1	: S	:	3	:	1	:	100	: 80 :
: 146.00	: 147.00	: SLST	: FL	:	2	: S	:	3	:	1	:	100	: 100 :
: 147.00	: 148.00	: SLST	: FL	:	1-2	: S	:	3	:	1	:	100	: 94 :
: 148.00	: 149.00	: STGW	: FL	:	1-2	: S	:	3	:	1	:	100	: 100 :
: 149.00	: 150.00	: STGW	: FL	:	1-2	: S	:	3	:	1	:	100	: 100 :
: 150.00	: 151.00	: STGW	: FL	:	1-2	: S	:	3	:	1	:	100	: 85 :
: 151.00	: 152.00	: STGW	: FR	:	1-2	: S	:	3	:	1	:	100	: 93 :
: 152.00	: 153.00	: STGW	: FR	:	2	: S	:	3	:	1	:	100	: 100 :
: 153.00	: 154.00	: STGW	: FR	:	2	: S	:	3	:	1	:	100	: 100 :
: 154.00	: 155.00	: STGW	: FR	:	2	: S	:	3	:	1	:	100	: 100 :
: 155.00	: 156.00	: STGW	: FR	:	2	: S	:	3	:	1	:	100	: 100 :
: 156.00	: 157.00	: STGW	: FR	:	1-2	: S	:	3	:	1	:	100	: 90 :
: 157.00	: 158.00	: STGW	: FL	:	1-2	: S	:	2-3	:	1	:	100	: 89 :
: 158.00	: 159.00	: STGW	: FL	:	2	: S	:	2-3	:	1	:	100	: 90 :
: 159.00	: 160.00	: STGW	: FL	:	1-2	: S	:	2-3	:	1	:	100	: 100 :
: 160.00	: 161.00	: STGW	: FL	:	2	: S	:	2-3	:	1	:	100	: 100 :
: 161.00	: 162.00	: STGW	: FL	:	3	: M	:	2-3	:	1	:	100	: 57 : 161-161.5m Core broken - limonite stained. Increase in
: 162.00	: 163.00	: STGW	: FL	:	2	: S	:	2-3	:	1	:	100	: 81 : chloritic alteration.
: 163.00	: 164.00	: STGW	: FL	:	1-2	: S	:	2-3	:	1	:	100	: 99 :
: 164.00	: 165.00	: STGW	: FL	:	1-2	: S	:	2-3	:	1	:	100	: 100 :
: 165.00	: 166.00	: STGW	: FL	:	1-2	: S	:	2-3	:	1	:	100	: 92 :
: 166.00	: 167.00	: STGW	: FL	:	1-2	: S	:	2-3	:	1	:	100	: 100 :
: 167.00	: 168.00	: STGW	: FL	:	1-2	: M	:	2	:	1	:	100	: 69 : 167.7-168.55m Core broken. Limonite stained.
: 168.00	: 169.00	: STGW	: FL	:	2	: M	:	1	:	1	:	100	: 61 :
: 169.00	: 170.00	: STGW	: FL	:	1-2	: S	:	2	:	1	:	100	: 67 :
: 170.00	: 171.00	: STGW	: FL	:	1-2	: S	:	2	:	1	:	100	: 68 :
: 171.00	: 172.00	: STGW	: FL	:	1-2	: S	:	2	:	1	:	100	: 61 :

PROSPECT : EXPLORER 195

HOLE No. : 2

PAGE No.:3

DEPTH :	DEPTH :	ROCK :	WEATH.:	ALTN.:	ROCK :	BEDD:	CLEAV:	C.B.A :	C.C.A :	SENSE:	CORE :	RQD :	COMMENTS
FROM :	TO :	TYPE :			STR.:	ING :	AGE :	S0 :	S1 :	S0-S1:	REC.X :	X :	SHEARS, JOINTS, FAULTS, ETC.
: 172.00	: 173.00	: STGW	:	FL	: 1-2	: S	: 2	: 1	:	:	: 100	: 15	: 172-172.5m Core broken. Limonite stained.
: 173.00	: 174.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 3	: 1	: 32	:	: 100	: 81	:
: 174.00	: 175.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 3	: 1	:	:	: 100	: 87	:
: 175.00	: 176.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 3	: 1	: 40	:	: 100	: 61	:
: 176.00	: 177.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 40	:	: 100	: 69	:
: 177.00	: 178.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 82	:
: 178.00	: 179.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 94	:
: 179.00	: 180.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 62	:
: 180.00	: 181.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 50	:	: 100	: 90	:
: 181.00	: 182.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 92	:
: 182.00	: 183.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 93	:
: 183.00	: 184.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 50	:	: 100	: 78	:
: 184.00	: 185.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 185.00	: 186.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 45	:	: 100	: 98	:
: 186.00	: 187.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 187.00	: 188.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 50	:	: 100	: 100	:
: 188.00	: 189.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 189.00	: 190.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 51	:	: 100	: 100	:
: 190.00	: 191.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 52	:	: 100	: 100	:
: 191.00	: 192.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 192.00	: 193.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 193.00	: 194.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 58	:	: 100	: 100	:
: 194.00	: 195.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 92	:
: 195.00	: 196.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 196.00	: 197.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 50	:	: 100	: 100	:
: 197.00	: 198.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 198.00	: 199.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 199.00	: 200.00	: HMSHGWNKE	:	FR	: 1-2	: S	: 4	: 1	: 56	:	: 100	: 100	:
: 200.00	: 201.00	: HMSHGWNKE	:	FR	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 201.00	: 202.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 50	:	: 100	: 100	:
: 202.00	: 203.00	: HMSHGWNKE	:	FR	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 203.00	: 204.00	: HMSHGWNKE	:	FL	: 1-2	: S	: 4	: 1	: 60	:	: 100	: 100	:
: 204.00	: 205.00	: HMSHGWNKE	:	FR	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:
: 205.00	: 206.00	: HMSHGWNKE	:	FR	: 1-2	: S	: 4	: 1	: 55	:	: 100	: 100	:
: 206.00	: 207.00	: HMSHGWNKE	:	FR	: 1-2	: S	: 4	: 1	:	:	: 100	: 100	:

GEOPEKO - TENNANT CREEK

BASIC GEOTECHNICAL LOG SHEET

PROSPECT : EXPLORER 195

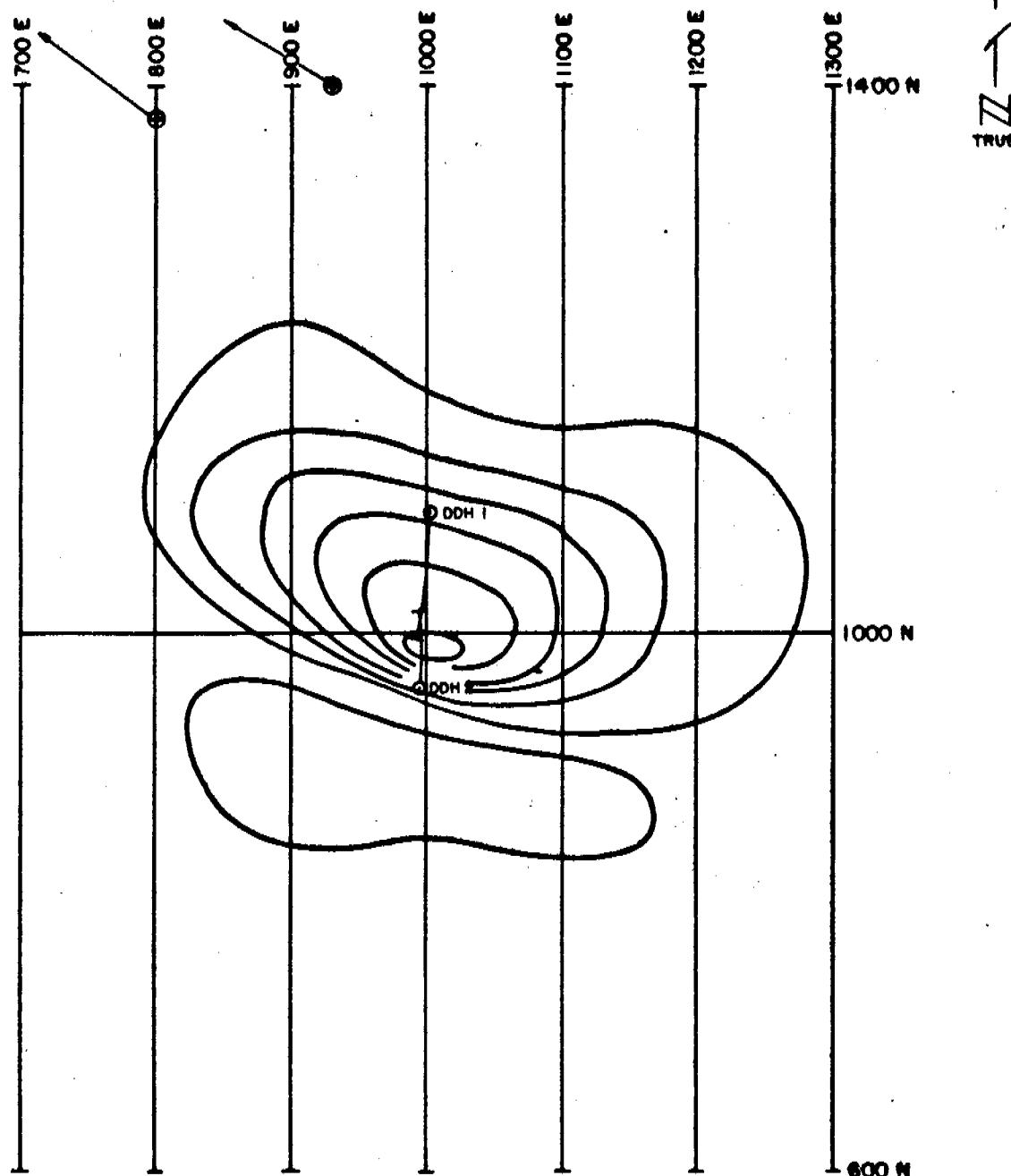
HOLE No. : 2

PAGE No.:4

DEPTH :	DEPTH :	ROCK :	WEATH.:	ALTN.:	ROCK :	BEDD:	CLEAV:	C.B.A :	C.C.A :	SENSE:	CORE :	RQD :	COMMENTS
FROM :	TO :	TYPE :			STR.:	ING :	AGE :	50 :	61 :	50-61:	REC.X :	% :	SHEARS, JOINTS, FAULTS, ETC.
: 207.00	: 208.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	: 55	:	:	: 100	: 100	:
: 208.00	: 209.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 209.00	: 210.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	: 62	:	:	: 100	: 100	:
: 210.00	: 211.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 211.00	: 212.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 212.00	: 213.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	: 61	:	:	: 100	: 100	:
: 213.00	: 214.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 214.00	: 215.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 215.00	: 216.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	: 57	:	:	: 100	: 97	:
: 216.00	: 217.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 217.00	: 218.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 99	:
: 218.00	: 219.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 219.00	: 220.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	: 67	:	:	: 100	: 75	:
: 220.00	: 221.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 221.00	: 222.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 222.00	: 223.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	: 63	:	:	: 100	: 100	:
: 223.00	: 224.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 224.00	: 225.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 225.00	: 226.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 226.00	: 227.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	: 67	:	:	: 100	: 100	:
: 227.00	: 228.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 228.00	: 229.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 93	:
: 229.00	: 230.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 98	:
: 230.00	: 231.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 231.00	: 232.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	: 62	:	:	: 100	: 100	:
: 232.00	: 233.00	: HMSGMKE:	FL	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 233.00	: 234.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 234.00	: 235.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 235.00	: 236.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 99	:
: 236.00	: 237.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	: 62	:	:	: 100	: 93	:
: 237.00	: 238.00	: HMSGMKE:	FR	: 1-2	: S	: 4	: 1	:	:	:	: 100	: 100	:
: 238.00	: 239.00	:	:	:	:	:	:	:	:	:	:	:	:
: 239.00	: 240.00	:	:	:	:	:	:	:	:	:	:	:	:

APPROX. 0.98 KM
AT 306°28'30"
TO GUN RIDGE TRIG.

APPROX. 1.1 KM
AT 301°12'48"
TO GUN RIDGE TRIG.



— SURVEYED GRID LINES

○ DRILLHOLE PLAN VIEW



GEOPEKO

A DIVISION OF PEKO-WALLSEND OPERATIONS LTD

50 0 50 100 150 200
metres

SCALE

1 : 5000

GEOLOGIST
R J LOVE

DATE
AUGUST 1984

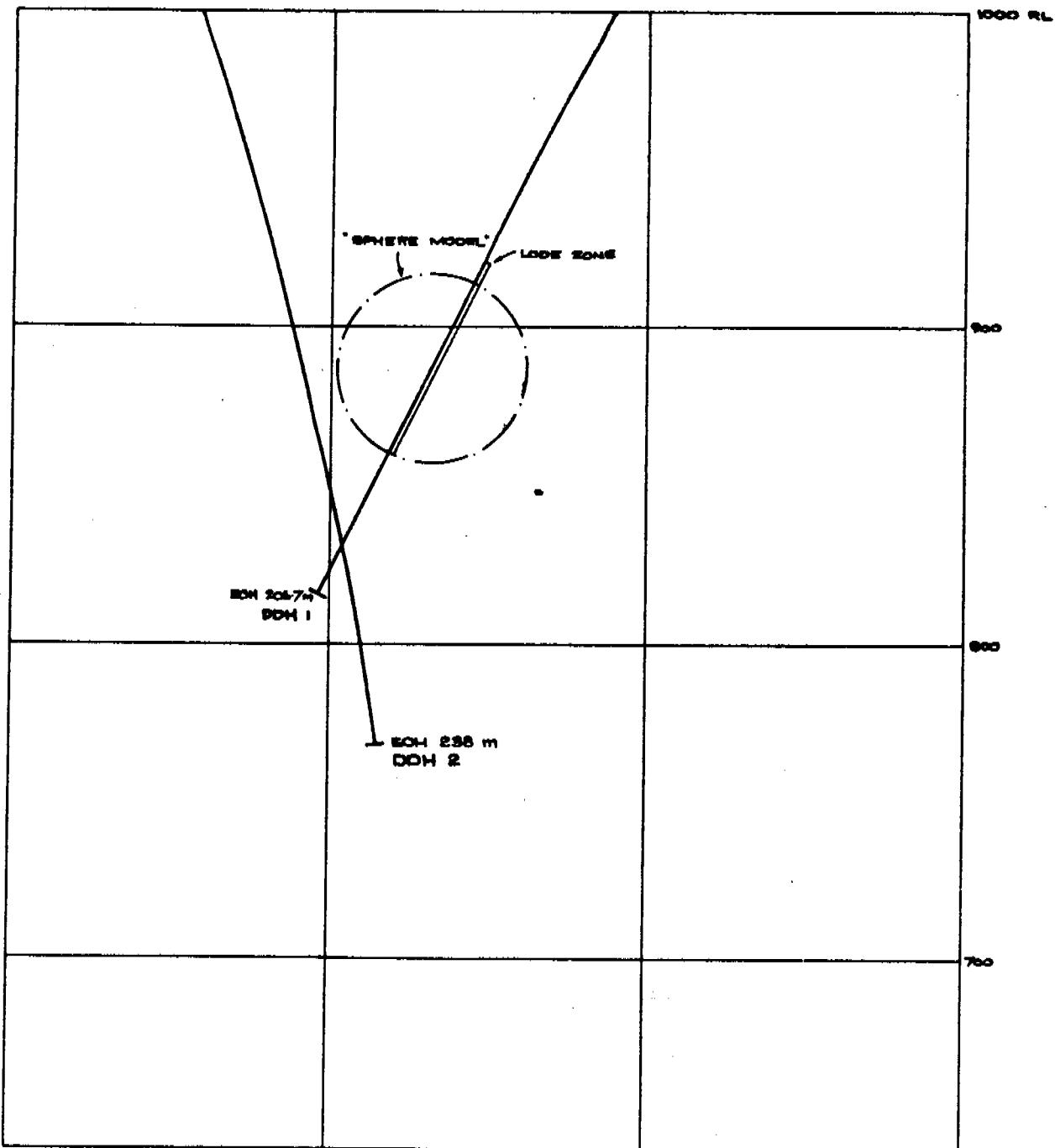
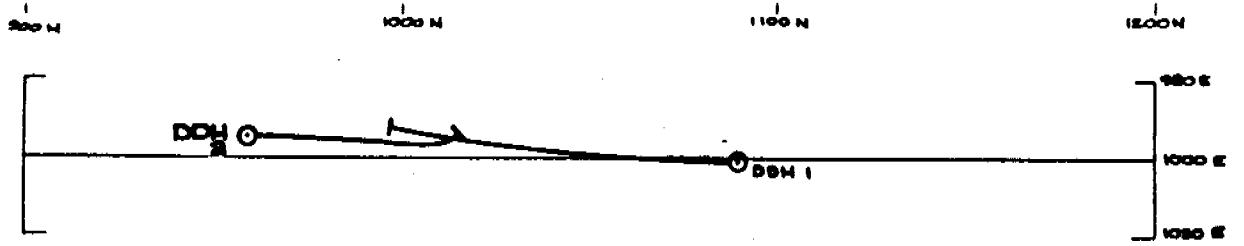
DRAWN 7/89
TLW 8/84

CHECKED
RJL

SE - 53-14-5758-1-NE
EXPLORER 195
AIRBORNE MAGNETIC SURVEY CONTOURS

PROJECT CENTRAL FIELD

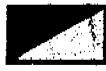
DWG NO. TF 3193



		 TENNANT CREEK	GEOPEKO	
			A DIVISION OF PEKO-WALLSEND OPERATIONS LTD	
		GEOLOGIST PRB DATE 6-87 DRAWN 7-89 TLW 6-87, CHECKED	MAP REF. EXPLORER 195 - GUM RIDGE GENERALISED CROSS SECTION 1000 E	
		PROJECT	CENTRAL FIELD	DWG NO. TF 3808

APPENDIX II

EXPLORER 228 - Surface Sampling Analytical Results
- Surface Magnetic Data



CLASSIC COMLABS LTD

Analytical Laboratories (INC. IN WA.)

305 South Road, Mile End South, South Australia, 5031
Telephone: (08) 43 5722 Fax: (08) 234 0321 Telex: LABCOM AA89323



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Mr. Mark Derriman
Geopeko Tennant Creek
Cnr. Schmidt and Irvine Streets
TENNANT CREEK
NT 5760 Australia

JOB NUMBER: 8AD3272

Your Reference: NT 498

Date Received: 11-OCT-1988 Turnaround 3 days

Date Relayed: 14-OCT-1988

Date Reported: 14-OCT-1988

Number of Samples: 11

Report Analyte Codes

N.A. - Not Analysed.

L.N.R. - Listed But Not Received.

I.S. - Insufficient Sample for Analysis.

Report Comprising: Cover Sheet

Pages 1 to 2

Comments:

Report Dist'n: Carbon Copies(CC), Electronic Media(EM), Magnetic Media(MM)
Type Recipient Location Date Copies

Approved Signature:

for

Harry Fishman

Managing Director.

CLASSIC COMLABS LTD

(Please address any enquiries to Mr. Trevor Francis)

This report relates specifically to the sample(s) tested in so far as that the sample(s) is truly representative of the sample source as supplied.



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Job: 8AD3272
O/N: NT 498

ANALYTICAL REPORT

SAMPLE	EXPLORER 228	/	GOSSE RIVER	Ag	Bi	Rock Chip Samples	EXPLORER 228
F 47907	15		16	18	1	<10	Coords refer to cmE/cmN 1:5000 print 30.4 / 13.7
F 47908	18		22	14	<1	60	28.4 / 14.3
F 47909	10		12	9	<1	<10	28.6 / 14.2
F 47910	22		10	7	<1	<10	29.5 / 14.0
F 47911	24		14	15	<1	25	30.0 / 14.2
F 47912	19		22	24	<1	30	29.8 / 13.6
F 47913	15		16	16	1	50	28.1 / 13.8

UNITS SCHEME	ppm AAS1	ppm AAS1	ppm AAS1	ppm AAS2	ppm AAS1
-----------------	-------------	-------------	-------------	-------------	-------------



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Job: 8AD3272
O/N: NT 498

ANALYTICAL REPORT

EXPLORER 228 / GOSSE RIVER

SAMPLE	Au	Avg	Au	Dp1	Au	Dp2	Au	Dp3	EX 228 (rock chip samples) Coords refer to cmE/cmN on 1:5000 print
F 47907	0.22	0.26		0.17			--	--	30.4 / 13.7
F 47908	0.03		--	--		--	--	--	28.4 / 14.3
F 47909	<0.01		--	--		--	--	--	28.6 / 14.2
F 47910	0.01		--	--		--	--	--	29.5 / 14.0
F 47911	0.07		--	--		--	--	--	30.0 / 14.2
F 47912	0.82	0.64		1.00			--	--	29.8 / 13.6
F 47913	0.01		--	--		--	--	--	28.1 / 13.8

UNITS SCHEME	ppm FA1	ppm FA1	ppm FA1	ppm FA1
-----------------	------------	------------	------------	------------



CLASSIC COMLABS LTD

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Job: 8AD3069
O/N: 36136

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Bi	Ag
F 47601	17	22	11	10	1
F 47602	14	22	11	10	2
F 47603	9	28	10	<10	1
F 47604	9	20	16	10	1
F 47605	8	24	10	10	1
F 47606	15	24	13	25	1
F 47607	12	22	12	15	1
F 47608	9	12	7	15	1
F 47609	16	28	9	180	2
F 47610	11	26	9	15	2
F 47611	18	40	9	90	1
F 47612	11	14	11	10	<1
F 47613	10	26	8	85	1
F 47614	11	24	12	145	2
F 47615	17	22	10	130	1
F 47616	18	16	8	55	1
F 47617	5	<4	3	<10	<1
F 47618	28	20	12	40	1
F 47619	26	32	12	20	2
F 47620	36	24	11	25	1
F 47621	72	24	8	60	2
F 47622	18	28	13	10	1
F 47623	92	300	46	<10	2
F 47624	28	22	10	55	2
F 47625	11	30	13	<10	1
UNITS SCHEME	ppm AAS1	ppm AAS1	ppm AAS1	ppm AAS1	ppm AAS2



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Job: 8AD3069
O/N: 36136

ANALYTICAL REPORT

SAMPLE	Cu	Pb	Zn	Bi	Ag
F 47626	30	22	8	45	1
UNITS SCHEME	ppm AAS1	ppm AAS1	ppm AAS1	ppm AAS1	ppm AAS2



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Job: 8AD3069
O/N: 36136

ANALYTICAL REPORT
EXPLORER 228 CHIP SAMPLES

SAMPLE	Au Avg	Au Dp1	Au Dp2	Au Dp3	Photo Print	Location (1:5,000 Bromide CME/CMN)
F 47601	<0.01	--	--	--	27.8 / 12.8	
F 47602	<0.01	--	--	--	27.7 / 12.9	
F 47603	0.02	--	--	--	27.6 / 12.8	
F 47604	<0.01	--	--	--	27.3 / 12.7	
F 47605	<0.01	--	--	--	27.3 / 13.2	
F 47606	<0.01	--	--	--	27.3 / 13.0	
F 47607	<0.01	--	--	--	27.2 / 13.1	
F 47608	<0.01	--	--	--	29.6 / 12.9	
F 47609	<0.01	--	--	--	29.5 / 13.0	
F 47610	<0.01	--	--	--	29.4 / 12.9	
F 47611	0.04	--	--	--	30.0 / 13.4	
F 47612	1.58	1.66	1.50	--	30.4 / 13.8	
F 47613	0.06	--	--	--	30.8 / 13.7	
F 47614	0.04	--	--	--	23.5 / 10.5	
F 47615	0.06	--	--	--	23.7 / 10.8	
F 47616	0.02	--	--	--	23.4 / 10.8	
F 47617	<0.01	--	--	--	33.5 / 18.5	
F 47618	0.04	--	--	--	20.3 / 6.4	
F 47619	0.02	--	--	--	20.4 / 6.7	
F 47620	0.04	0.06	0.02	--	19.7 / 7.0	
F 47621	<0.01	--	--	--	19.5 / 7.0	
F 47622	<0.01	--	--	--	19.2 / 6.2	
F 47623	0.02	--	--	--	17.0 / 5.3	
F 47624	<0.01	--	--	--	19.2 / 3.8	
F 47625	0.04	--	--	--	18.7 / 4.8	
UNITS SCHEME	ppm FA1	ppm FA1	ppm FA1	ppm FA1		



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Job: 8AD3069
O/N: 36136

ANALYTICAL REPORT

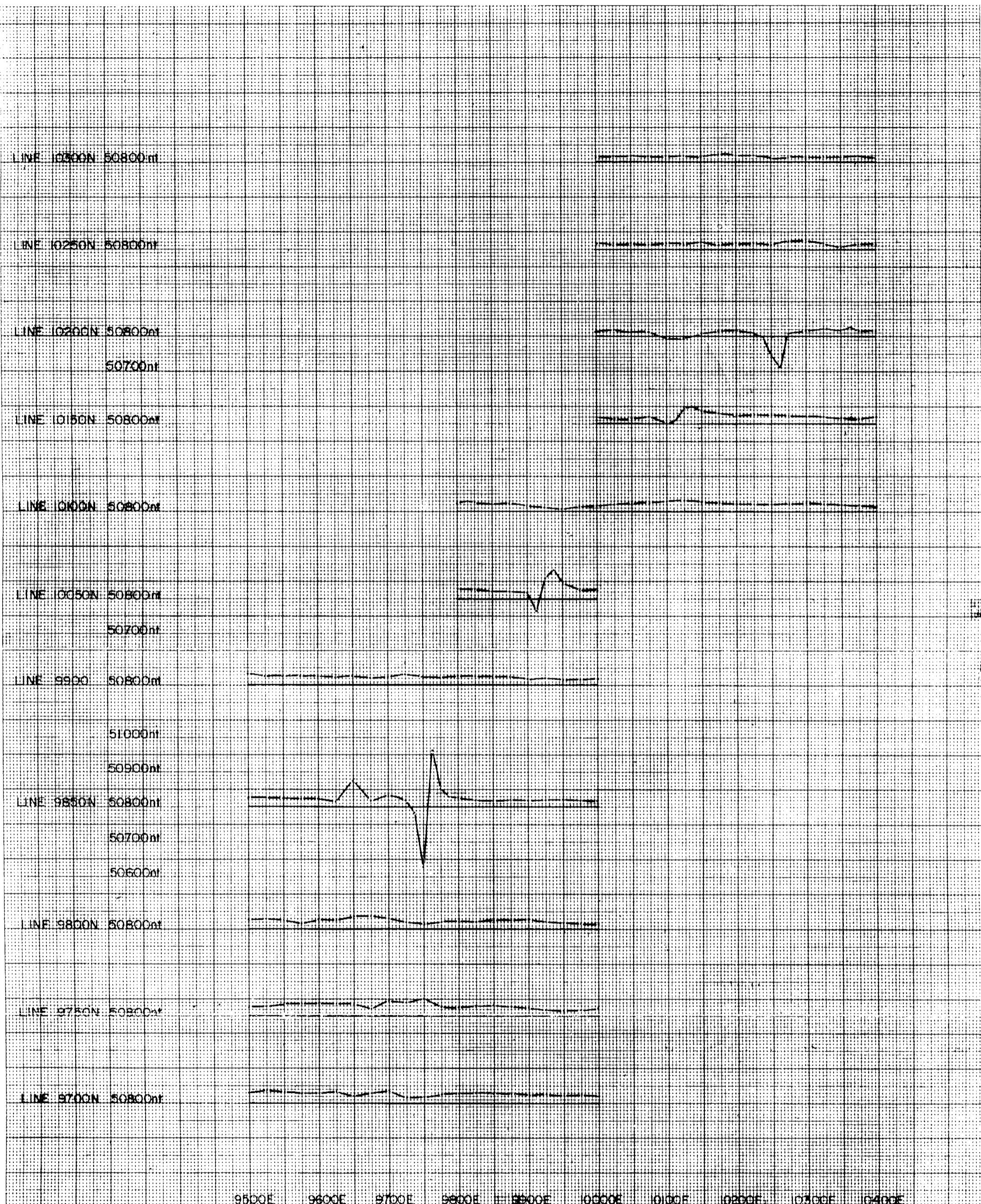
EXPLORER 228 CHIP SAMPLES

SAMPLE Au Avg Au Dp1 Au Dp2 Au Dp3

Photo Location (1:5,000 Bromide Print)
CME / CMN

F 47626 0.04 -- -- -- 19.1 / 5.0

UNITS SCHEME	ppm FA1	ppm FA1	ppm FA1	ppm FA1
-----------------	------------	------------	------------	------------



Vertical Scale: 1 cm = 100 nt

Pole Length: 4.88 m

Horizontal Scale : 1cm = 50m

Date : 12/12/88

Instrument: G816

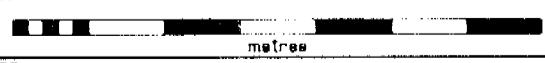
Operator: Murray Spratt

Mark Hambridge



DARWIN

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SCALE
'as shown'

GEOLOGIST

MAP
REF. TENNANT CREEK SE53-14

DATE 22/9/89

DRAWN KAR

EXPLORER 228 T.M.I. PROFILES

PROJECT CENTRAL FIELD

DWG NO. TF 4400

APPENDIX III

Report on Soil Geochemistry Survey within the Monument Group

REPORT ON SOIL GEOCHEMISTRY SURVEY
WITHIN THE MONUMENT GROUP

TENNANT CREEK N.T.

March, 1989

Compiled by : R. Love

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DIAGRAMS / TABLES

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Figure 2	-	Line 1 / Analytical Graph
Figure 3	-	Line 2 / Analytical Graph
Table 1	-	Analytical Averages

APPENDICES

Appendix I	-	Analytical Results
Appendix II	-	Geological Logs

INTRODUCTION

During 1988 a geochemical orientation traverse was undertaken in the Three Ways area (Fig.1) to assess the range of analytical values which could be expected in the vicinity of a basal unconformity to the Warramunga Group. This work formed part of regional exploration activities within EL 4536.

CONCLUSIONS

- (a) There were no significant differences between the populations for Au., Cu, Pb and Zn, for the two lines.
- (b) Greater variation of results along the traverse from samples collected in the depth interval 2-3m, compared to the 5-6m interval.
- (c) Relatively lower values for Pb in those samples collected over out-cropping-subcropping beds in the Monument Trig locality.

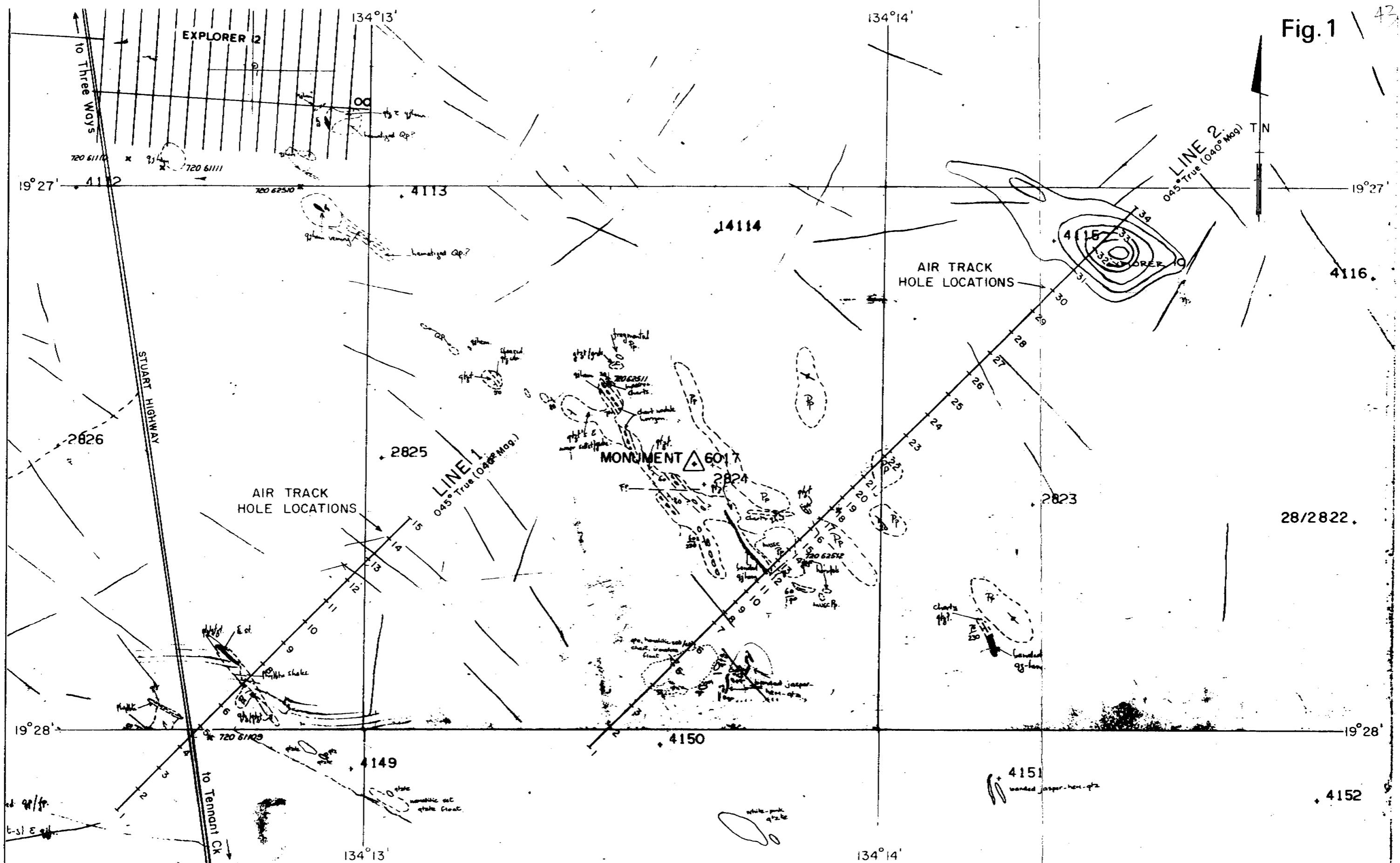
RECOMMENDATIONS

- (a) Geochemical anomalies, should they exist in this type of geological environment, may be detected by sampling only at the soil/bedrock interface.
- (b) Follow up targets for more detailed grid geochemistry may be selected from either regional B.M.R. samples or anomalous results from Explorer drilling programs.

DRILLING AND SAMPLING

Drilling along the traverse lines was undertaken using a tractor mounted percussion drill rig, with a down the hole hammer and cyclone collector. A total of 49 holes were completed along two lines to a minimum depth of 3 metres. In addition, selected holes were extended to 6 metres. Composite samples were collected over the one metre intervals 2-3m and 5-6m for analytical determinations and rock chip identification, (Figures 2 & 3).

Fig. 1



GEOPEKO

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The logo for Tennant Company, featuring a stylized hand holding a pen or brush.

TENNANT
CREEK

GEOLOGIST R.J.

DATE 08-2-20

22-9-8

URHWN RMN

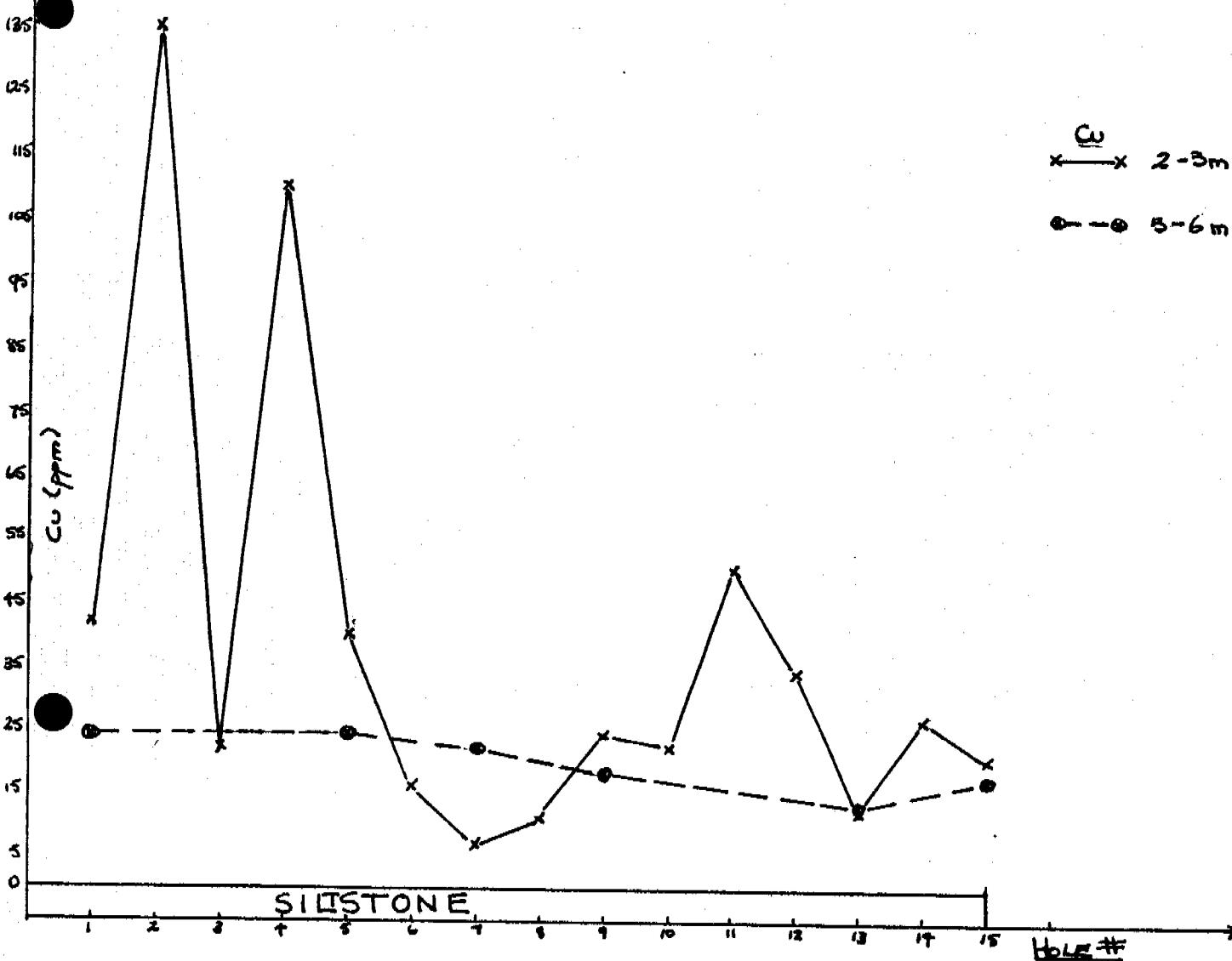
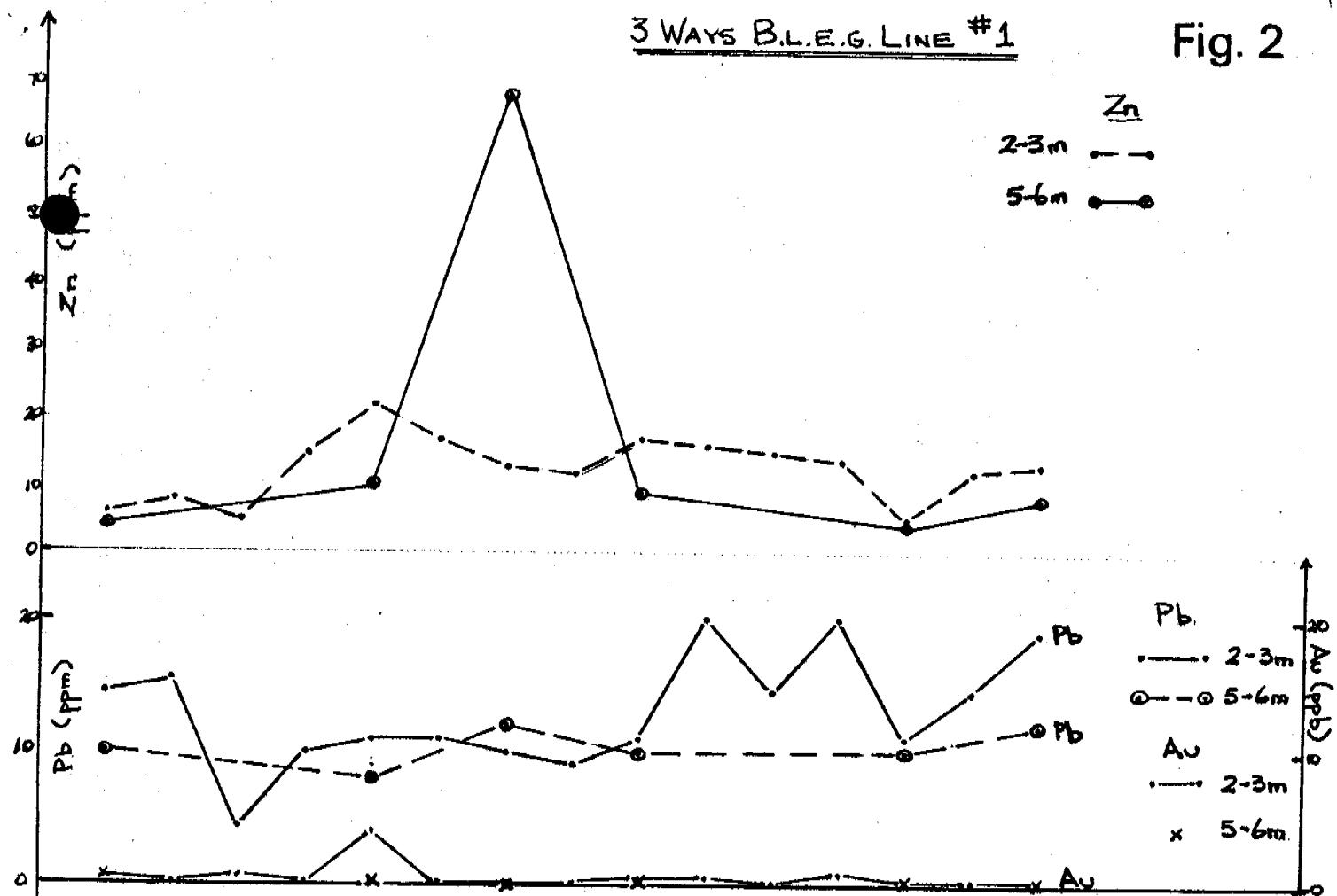
**EL4536, BLEG TRAVERSE LINES
(BULK LEACH EXTRACTABLE GOLD)**

SENTRAL FIELD DWG NO. 5-107-A

3 WAYS B.L.E.G LINE #1

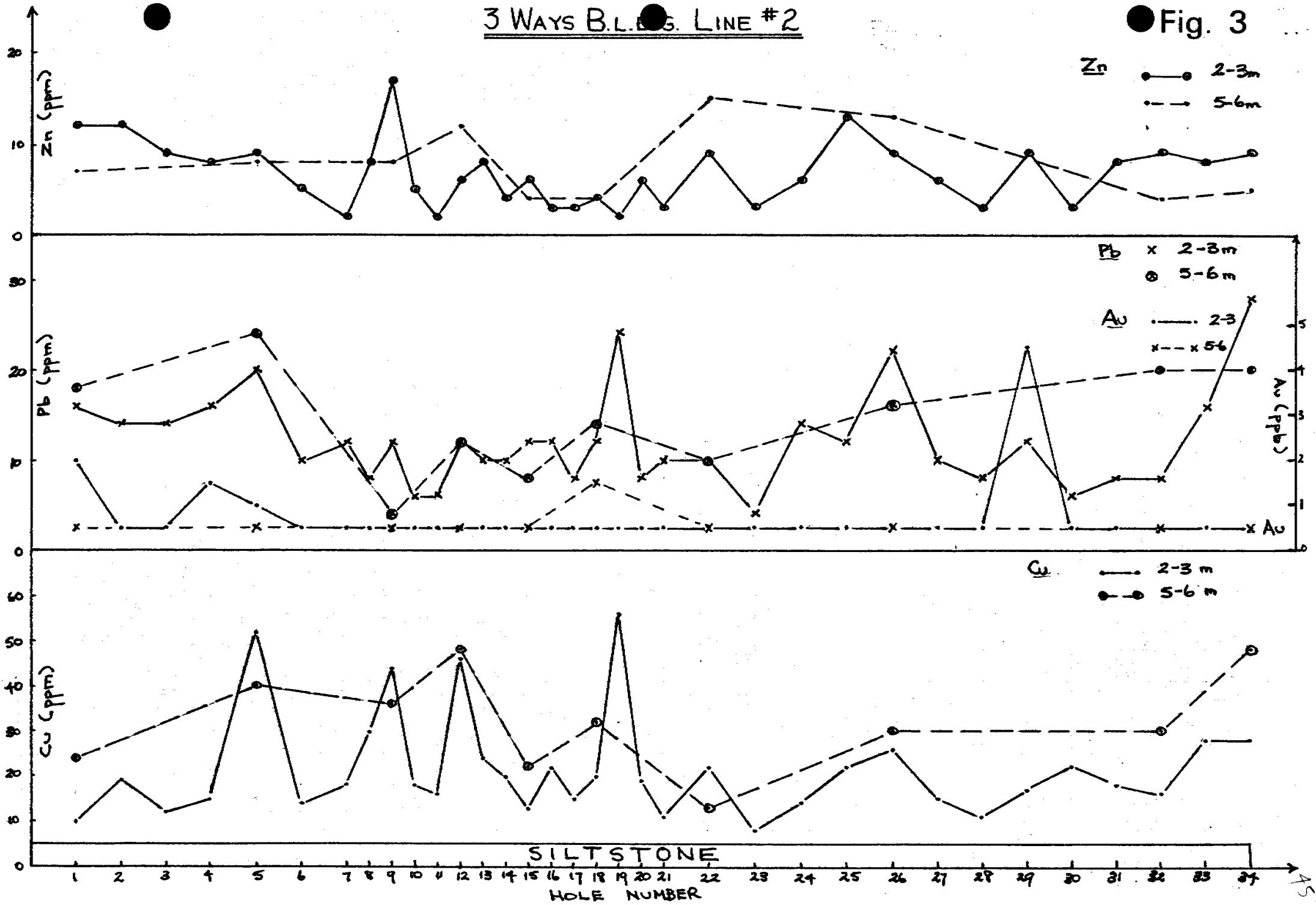
Fig. 2

4A



3 WAYS B.L.G. LINE #2

● Fig. 3



ANALYTICAL RESULTS

Gold

The bulk Leach Extractable Gold (BLEG) scheme was used to detect gold concentrations down to 0.5 ppb.

Except for isolated anomalous values, which may be accounted for by surface enrichment, gold generally occurred in concentrations at, or below, the detection limit.

Copper

A significant variation was noted in the average value and variance for Cu values returned from the two sample intervals 2-3m and 5-6m, the latter giving a much lower variance for values collated along each of the traverse lines (Table 1).

A broad pattern can, however be detected in which Cu values are generally lower towards the northern end of Line 1 and the southern end of Line 2, while a second Cu "low" occurs between holes 13 and 32 along Line 2. The first of these anomalies may indicate the presence of the unconformity in the vicinity of Hole 4 on Line 2.

Lead

Although Pb values were generally erratic along the line there was a much better correlation between the two sample depths than for copper.

The most significant anomaly is a depleted interval, along Line 2, from Hole 6 to 22. The reason for this is uncertain but could be in response to either a stratigraphic horizon or a shallower depth to bedrock.

Zinc

Zinc showed relative depletion in the interval 2-3m compared to corresponding samples in the 5-6m range however, no other anomalous features were detected along the lines.

TABLE 1

BLEG Traverse Lines - Analytical Averages

	Line 1				Line 2			
	2-3m (15 samples)		5-6m (6 samples)		2-3m (33 samples)		5-6m (11 samples)	
	<u>\bar{x}</u>	S.D.	<u>\bar{x}</u>	S.D.	<u>\bar{x}</u>	S.D.	<u>\bar{x}</u>	S.D.
Au	0.9 (?)	-	<0.5	-	<0.5	-	<0.5	-
Cu	38.1	35.4	19.7	4.0	22.1	11.6	31.4	10.5
Pb	13.1	4.2	10.3	1.4	12.1	4.9	13.6	6.4
Zn	12.7	4.7	17.2	22.8	6.8	3.5	7.2	3.7

GEOLOGY

The two traverse lines were located so as to pass over the base of the Warramunga Group and extend well into the underlying unit; as yet unnamed. The orientation of the lines was selected at 90° to the interpreted direction of the unconformity in this area.

Rock chips from each of the sample intervals were logged with little variation being noted along each of the traverse lines except for the irregular occurrence of quartz and mottling due to weathering. Fine grained sediments predominated.

APPENDIX I

Analytical Results



Job: 8AD3360
O/N: NT 500/ 36197

**ANALYTICAL REPORT
3 WAYS BLEG LINE**

SAMPLE	Cu	Pb	Zn	Au	LINE 2 HOLE NO.	INTERVAL(m)
F 48011	24	18	7	<0.5	1	5 - 6
F 48012	19	14	12	<0.5	2	2 - 3
F 48013	12	14	9	<0.5	3	2 - 3
F 48014	15	16	8	1.5	4	2 - 3
F 48015	52	20	9	1.0	5	2 - 3
F 48016	40	24	8	<0.5	5	5 - 6
F 48017	14	10	5	0.5	6	2 - 3
F 48018	18	12	2	<0.5	7	2 - 3
F 48019	30	8	8	<0.5	8	2 - 3
F 48020	8	6	12	<0.5	CFS : 9	
F 48021	44	12	17	<0.5	9	2 - 3
F 48022	36	<4	8	<0.5	9	5 - 6
F 48023	18	6	5	<0.5	10	2 - 3
F 48024	16	6	2	<0.5	11	2 - 3
F 48025	46	12	6	<0.5	12	2 - 3
F 48026	48	12	8	<0.5	12	5 - 6
F 48027	24	10	8	<0.5	13	2 - 3
F 48028	20	10	4	<0.5	14	2 - 3
F 48029	13	12	6	<0.5	15	2 - 3
F 48030	7	4	8	<0.5	CFS : 9	
F 48031	22	8	4	<0.5	15	5 - 6
F 48032	22	12	3	<0.5	16	2 - 3
F 48033	15	8	3	<0.5	17	2 - 3
F 48034	20	12	4	<0.5	18	2 - 3
F 48035	32	14	4	1.5	18	5 - 6
UNITS SCHEME	ppm AAS1	ppm AAS1	ppm AAS1	ppb BLEG1		



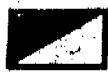
Job: 8AD3360
O/N: NT 500/ 36197

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ANALYTICAL REPORT
3 WAYS BLEG LINE

SAMPLE	Cu	Pb	Zn	Au	LINE 1 Hole No.	INTERVAL(m)
F 47986	42	14	6	1.0	1	2 - 3
F 47987	24	10	4	1.0	1	5 - 6
F 47988	135	16	8	<0.5	2	2 - 3
F 47989	22	4	5	1.0	3	2 - 3
F 47990	7	6	13	<0.5	CFS : 9	
F 47991	110	10	15	<0.5	4	2 - 3
F 47992	40	12	22	8.0	5	2 - 3
F 47993	24	8	10	<0.5	5	5 - 6
F 47994	16	12	17	<0.5	6	2 - 3
F 47995	7	10	13	<0.5	7	2 - 3
F 47996	22	12	68	<0.5	7	5 - 6
F 47997	11	8	12	<0.5	8	2 - 3
F 47998	24	12	17	1.0	9	2 - 3
F 47999	18	10	9	<0.5	9	5 - 6
F 48000	7	10	10	1.0	CFS : 9	
F 48001	22	20	16	1.0	10	2 - 3
F 48002	50	14	15	<0.5	11	2 - 3
F 48003	34	20	14	1.5	12	2 - 3
F 48004	12	12	5	<0.5	13	2 - 3
F 48005	13	10	4	<0.5	13	5 - 6
F 48006	26	14	12	<0.5	14	2 - 3
F 48007	20	18	13	<0.5	15	2 - 3
F 48008	17	12	8	<0.5	15	5 - 6
F 48009	10	16	12	2.0	1	2 - 3
F 48010	8	8	9	<0.5	CFS : 9	

UNITS SCHEME	ppm AAS1	ppm AAS1	ppm AAS1	ppb BLEG1
-----------------	-------------	-------------	-------------	--------------



Job: 8AD3360
O/N: NT 500/ 36197

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SAMPLE	ANALYTICAL REPORT				LINE 2 HOLE NO.	INTERVAL(m)
	3 WAYS	Cu	Pb	Zn		
F 48036	56	24	2	<0.5	19	2 - 3
F 48037	19	8	6	<0.5	20	2 - 3
F 48038	11	10	3	<0.5	21	2 - 3
F 48039	22	22	9	<0.5	22	2 - 3
F 48040	6	6	6	<0.5	CFS : 9	
F 48041	13	10	15	<0.5	22	5 - 6
F 48042	8	<4	3	<0.5	23	2 - 3
F 48043	14	14	6	0.5	24	2 - 3
F 48044	22	12	13	<0.5	25	2 - 3
F 48045	26	22	9	<0.5	26	2 - 3
F 48046	30	16	13	0.5	26	5 - 6
F 48047	15	10	6	<0.5	27	2 - 3
F 48048	11	8	3	<0.5	28	2 - 3
F 48049	17	12	9	4.5	29	2 - 3
F 48050	8	<4	9	1.0	CFS : 9	
F 48051	22	6	3	<0.5	30	5 - 6
F 48052	18	8	8	<0.5	31	2 - 3
F 48053	26	8	9	<0.5	32	2 - 3
F 48054	30	20	4	<0.5	32	5 - 6
F 48055	28	16	8	<0.5	33	2 - 3
F 48056	28	14	9	<0.5	34	2 - 3
F 48057	48	20	5	<0.5	34	5 - 6

UNITS SCHEME	ppm AAS1	ppm AAS1	ppm AAS1	ppb BLEG1
-----------------	-------------	-------------	-------------	--------------

APPENDIX II

Geological Logs

GEOPEKO - DRILLING LOG SHEET

PROSPECT : BLEG

HOLE No

PAGE 1 OF 9

#1	GEOLOGICAL LOG	Mineral Percentages							Sample Number	Interval From To	Au	Cu	Bi
HOLE 1	Red Siltstone Oxidised and weathered sediment with some vein quartz. Oxidised and weathered sediment with some vein quartz. Red siltstone and manganese stained siltstone.									2 - 3			
HOLE 2	Oxidised and weathered sediment Red and yellow siltstone, some vein quartz.									5 - 6			
HOLE 3	Oxidised and weathered sediment. Red and yellow siltstone, some vein quartz.									2 - 3			
HOLE 4	Oxidised and weathered sediment. Varying shades of yellow and brown siltstone - some vein quartz.									2 - 3			
HOLE 5	Oxidised and weathered sediment - red and yellow siltstone. Some vein qtz. 50% of siltstone bleached and weathered to white. 50% red siltstone.									2 - 3			
HOLE 6	Oxidised and weathered sediment. 40% bleached and weathered siltstone (to white). 60% brown siltstone. Some vein quartz.									5 - 6			
HOLE 7	Oxidised and weathered sediment. Red siltstone and manganese stained siltstone. Some shades of yellow - some vein quartz. Oxidised and weathered sediment. Varying shades of yellow and brown siltstone. Some bleached white (15%) - some vein quartz..									2 - 3			
HOLE 8	Oxidised and weathered sediment. Grey siltstone - 5% siltstone bleached to white. 5% vein quartz.									5 - 6			
										2 - 3			

GEOPEKO - DRILLING LOG SHEET

PROSPECT: ELEG

HOLE No:

PAGE 2 OF 9

#1	GEOLOGICAL LOG	Mineral Percentages								Sample Number	Interval From To	Au	Cu	Bi
HOLE 9	Oxidised and weathered sediment Varying shades of grey and brown siltstone. Some vein quartz. Oxidised and weathered sediment. 5% siltstone bleached to white. 25% vein quartz.										2 - 3			
HOLE 10	Oxidised and Weathered Sediment. Yellow quartz (40%). 5% siltstone bleached to white.										5 - 6			
HOLE 11	Oxidised and Weathered Sediment. Varying shades of yellow and brown siltstone. 2% siltstone bleached to white. Some vein quartz.										2 - 3			
HOLE 12	Oxidised and Weathered Sediment. Varying shades of yellow and brown siltstone. 5% vein quartz. Some siltstone bleached to white.										2 - 3			
HOLE 13	Oxidised and Weathered Sediment. Brown and yellow siltstone. Some vein quartz (2%). Some siltstone bleached to white (5%). Oxidised and Weathered Sediment. 50% of siltsotne bleached and weathered to white. Some vein quartz. 40% brown siltstone (very soft).										2 - 3			
HOLE 14	Oxidised and Weathered Sediment. 80% weathered brown siltstone. 5% manganese stained siltstone. 5% bleached siltstone (white). 10% vein quartz.										2 - 3			
HOLE 15	Oxidised and Weathered Sediment. 20% vein quartz. 65% bleached and weathered siltstone (white). 15% brown siltstone. Oxidised and Weathered Sediment. Brown, white and yellow clay (very weathered siltstone).										2 - 3			
											5 - 6			

GEOPEKO - DRILLING LOG SHEET		PROSPECT	BLEG	HOLE No:								PAGE 3 OF 9			
#2	GEOLOGICAL LOG	Mineral Percentages								Sample Number	Interval From To	Au	Cu	Bi	
#2															
HOLE 1															
Oxidised and Weathered Sediment. 80% brown clay (very weathered siltstone). 10% manganese stained siltstone. 10% vein quartz.												2 - 3			
Oxidised and Weathered Sediment. 10% vein quartz. 70% bleached and weathered siltstone (white). 20% yellow siltstone.												5 - 6			
HOLE 2															
Weathered and Oxidised Sediment															
Brown, white and yellow clay (very weathered siltstone).													2 - 3		
2% manganese stained siltstone.															
Some vein quartz.															
HOLE 3															
Oxidised and Weathered Sediment.													2 - 3		
Grey and brown siltstone.															
Some siltstone bleached to white.															
Some vein quartz.															
HOLE 4															
Oxidised and Weathered Sediment.													2 - 3		
Brown clay (weathered siltstone).															
Black (manganese stained) siltstone with some bleached patches.															
Some vein quartz.															
HOLE 5															
Oxidised and Weathered Sediment													2 - 3		
80% red siltstone.															
10% yellow siltstone.															
10% vein quartz.															
Oxidised and Weathered Sediment													5 - 6		
Red and grey siltstone.															
Some vein quartz.															

GEOPEKO - DRILLING LOG SHEET		PROSPECT	BLEG	HOLE No:								PAGE 4 OF 9			
#2	GEOLOGICAL LOG	Mineral Percentages								Sample Number	Interval From To	Au	Cu	Bi	
HOLE 6	Oxidised and Weathered Sediment Red and brown siltstone. 10% siltstone bleached to white. Some vein quartz.										2 - 3				
HOLE 7	Oxidised and Weathered Sediment Brown clay (30%) Bleached siltstone (white) (40%) Brown and red siltstone (25%) Some vein quartz (5%)										2 - 3				
HOLE 8	Oxidised and Weathered Sediment 80% brown and red siltstone 10% bleached siltstone (white) 10% vein quartz.										2 - 3				
HOLE 9	Oxidised and WEathered Seidment White (bleached) and yellow siltstone Some vein quartz. Oxidised and Weathered Sediment White clay (weathered siltstone) Brown, yellow, red and black (manganese stained) siltstone.										2 - 3				
HOLE 10	Oxidised and Weathered Sediment Brown, yellow, red and white (bleached siltstone (80%) Vein quartz (20%)										2 - 3				
HOLE 11	Oxidised and Weathered Sediment 45% bleached siltstone (white). 45% brown and red siltstone. 10% vein qtz.										2 - 3				

GEOPEKO - DRILLING LOG SHEET

PROSPECT

BLEX

HOLE No

PAGE 5 OF 9

#2	GEOLOGICAL LOG	Mineral Percentages							Sample Number	Interval From To	Au	Cu	Bi
HOLE 12	No core sample recovery. No core sample recovery.									2 - 3 5 - 6			
HOLE 13	Oxidised and Weathered Sediment 80% brown, red and black (manganese stained) siltstone. 10% bleached siltstone (white) 10% vein quartz.									2 - 3			
HOLE 14	Oxidised and Weathered Sediment Brown, yellow, red and white (bleached) siltstone. Some vein quartz.									2 - 3			
HOLE 15	Oxidised and Weathered Sediment Red and brown siltstone. Some vein quartz.									2 - 3			
	Oxidised and Weathered Sediment Red, brown and black (manganese stained) siltstone. Some vein quartz.									5 - 6			
HOLE 16	Oxidised and Weathered Sediment. 70% brown siltstone. 20% yellow siltstone. 5% white (bleached) siltstone. 5% vein quartz.									2 - 3			
HOLE 17	Oxidised and Weathered Sediment 30% brown clay (weathered siltstone) 10% black (manganese stained) siltstone. 50% brown and red siltstone. 10% vein quartz.									2 - 3			

GEOPEKO - DRILLING LOG SHEET		PROSPECT:	BLEG	HOLE No:				PAGE 6 OF 9					
#2	GEOLOGICAL LOG	Mineral Percentages							Sample Number	Interval From To	Au	Cu	Bi
HOLE 18	Oxidised and Weathered Sediment 5% black (manganese stained) siltstone. 10% brown clay (weathered siltstone) 5% white (bleached) siltstone 75% brown and red siltstone. Oxidised and Weathered Sediment 45% white (bleached) siltstone. 50% red and brown siltstone 5% vein quartz.									2 - 3			
HOLE 19	Oxidised and Weathered Siltstone 40% brown siltstone 50% white (bleached) and yellow siltstone 10% vein quartz.									5 - 6			
HOLE 20	Oxidised and Weathered Sediment 50% white clay (bleached and weathered siltstone) 40% brown and red siltstone 10% vein quartz.									2 - 3			
HOLE 21	Oxidised and Weathered Sediments 80% brown, red and yellow siltstone 5% black (Manganese stained) siltstone 10% vein quartz 5% white (bleached) siltstone.									2 - 3			
HOLE 22	Oxidised and Weathered Sediments 90% brown, red and yellow siltstone 5% white (bleached) siltstone. 5% vein quartz.									2 - 3			

GEOPEKO - DRILLING LOG SHEET

PROSPECT:

BLEG

HOLE No:

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#2	GEOLOGICAL LOG	Mineral Percentages								Sample Number	Interval From To	Au	Cu	Bi
HOLE 22	Oxidised and Weathered Sediments 60% brown and red siltstone. 10% white (bleached) siltstone 15% vein quartz 15% black (manganese stained) siltstone.										5 - 6			
HOLE 23	Oxidised and Weathered Sediments Yellow, red, brown and black (manganese stained) siltstone. Some vein quartz.										2 - 3			
HOLE 24	Oxidised and Weathered Sediments 45% vein quartz 55% brown and yellow siltstone.										2 - 3			
HOLE 25	Oxidised and Weathered Sediments Red, brown and yellow siltstone. Some vein quartz.										2 - 3			
HOLE 26	Oxidised and WEathered Sediments 80% brown clay (weathered siltstone) 10% brown siltstone 10% vein quartz. Oxidised and Weathered SEdiments 80% bleached siltstone (white) 10% brown siltstone 10% vein quartz.										2 - 3			
HOLE 27	Oxidised and Weathered Sediments 20% brown clay (weathered siltstone) 70% brown, yellow and white (bleached) siltstone 5% vein quartz 5% black (manganese stained) siltstone.										2 - 3			

GEOPEKO - DRILLING LOG SHEET		PROSPECT	BLEG	HOLE No:									PAGE 9 OF 9		
#2	GEOLOGICAL LOG	Mineral Percentages								Sample Number	Interval From To	Au	Cu	Bi	
	HOLE 33 Oxidised and Weathered Sediment 30% brown clay 65% brow, yellow and red siltstone. 5% vein quartz.											2 - 3			
	HOEL 34 Oxidised and Weathered Sediment White (bleached), brown, red and yellow siltstone. Some vein quartz. Oxidised and Weathered 90% red siltstone 5% white (bleached) siltstone 5% veinquartz.											2 - 3			
												5 - 6			

GEOPEKO - DRILLING LOG SHEET

PROSPECT: BLEG

HOLE No:

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#2	GEOLOGICAL LOG	Mineral Percentages							Sample Number	Interval From To	Au	Cu	Bi
HOLE 28	Oxidised and Weathered Sediment Brown, yellow, white (bleached), red and black (manganese stained) siltstone.									2 - 3			
HOLE 29	Oxidised and Weathered Sediment 70% white clay (weathered siltstone) 15% white (bleached) siltstone 10% brown siltstone 5% vein quartz.									2 - 3			
HOLE 30	Oxidised and Weathered Sediment 50% brown and white clay (weathered siltstone) 50% white (bleached), brown and black (Manganese stained) siltstone. Oxidised and Weathered Sediment Brown, white (bleached) and yellow siltstone Some vein quartz.									2 - 3			
HOLE 31	Oxidised and Weathered Sediment 35% brown clay (weathered siltstone) 5% vein quartz 60% brown, red and white (bleached) siltstone.									2 - 3			
HOLE 32	Oxidised and Weathered Sediment 20% brown clay (weathered siltstone) 75% brown, red, yellow, white (bleached) and black (manganese stained siltstone). 5% vein quartz Oxidised and Weathered Sediment 70% white (bleached) siltstone 25% brown and yellow siltstone 5% vein quartz.									2 - 3			
										5 - 6			