NORTH FLINDERS MINES LTD / ROEBUCK RESOURCES NL

TENNANT CREEK FARMIN JOINT VENTURE

FINAL REPORT ON

HOPEFUL STAR

MCC 1069 AND 1070

FOR PERIOD 2ND JANUARY1992 TO 1ST JANUARY 1995

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North Flinders Exploration
April 1995

RH:DACA272

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SUMMARY

This final report on MCC 1069 and 1070 documents all exploration carried out by Roebuck Resources NL during the period of tenure from January 1992 to January 1995. Both mineral claims lie immediately to the south-east of tenements covering the Hopeful Star mine workings (17 kilometers WNW of Tennant Creek).

Work undertaken comprised:-

- establishment of a pegged grid
- drilling of 168 shallow vertical RAB holes on the grid to establish bedrock lithologies beneath cover and associated Au, Cu, Bi and Pb geochemistry.

More comprehensive exploration was carried out on those tenements closer to the mine workings.

1. INTRODUCTION

This final report on MCC 1069 and 1070 documents all exploration carried out by Roebuck Resources NL during the period of tenure from January 1992 to January 1995.

The tenements covered a possible extension of a low order gold in soil and bedrock geochemical anomaly (the GAIL PROSPECT). This had been identified by Newmont Australia Ltd and was located about 250 metres east-south-east of the "Hopeful Star Extended" workings.

To test for a continuation of the known geochemical anomalism, exploration of the tenements comprised:-

- establishment of a pegged grid
- drilling of 168 shallow vertical RAB holes on the grid to establish bedrock lithologies beneath cover and associated Au, Cu, Bi and Pb geochemistry.

2. TENEMENT DETAILS

Details pertaining to the mineral claims are given in the table below.

	Date of Grant	Date of Expiry	Area (hectares)	Rental
MCC 1069	2/1/92	1/1/95	40	$ 400.00
MCC 1070	2/1/92	1/1/95	32	$ 320.00

Exploration of the mineral claims was integrated with work carried out on other tenements which lie closer to or over, the original Hopeful Star mine workings (See Figure 2).

3. LOCATION AND ACCESS

Both mineral claims are located 17 kilometers ENE of Tennant Creek and approximately one kilometer ESE of the mine workings at Hopeful Star.

Access from Tennant Creek is via the unmade road which serviced small mining operations at Hopeful Star, New Moon, Blue Moon etc. Short tracks south from this road reach MCC 1069 and 1070 (see Figure 1).

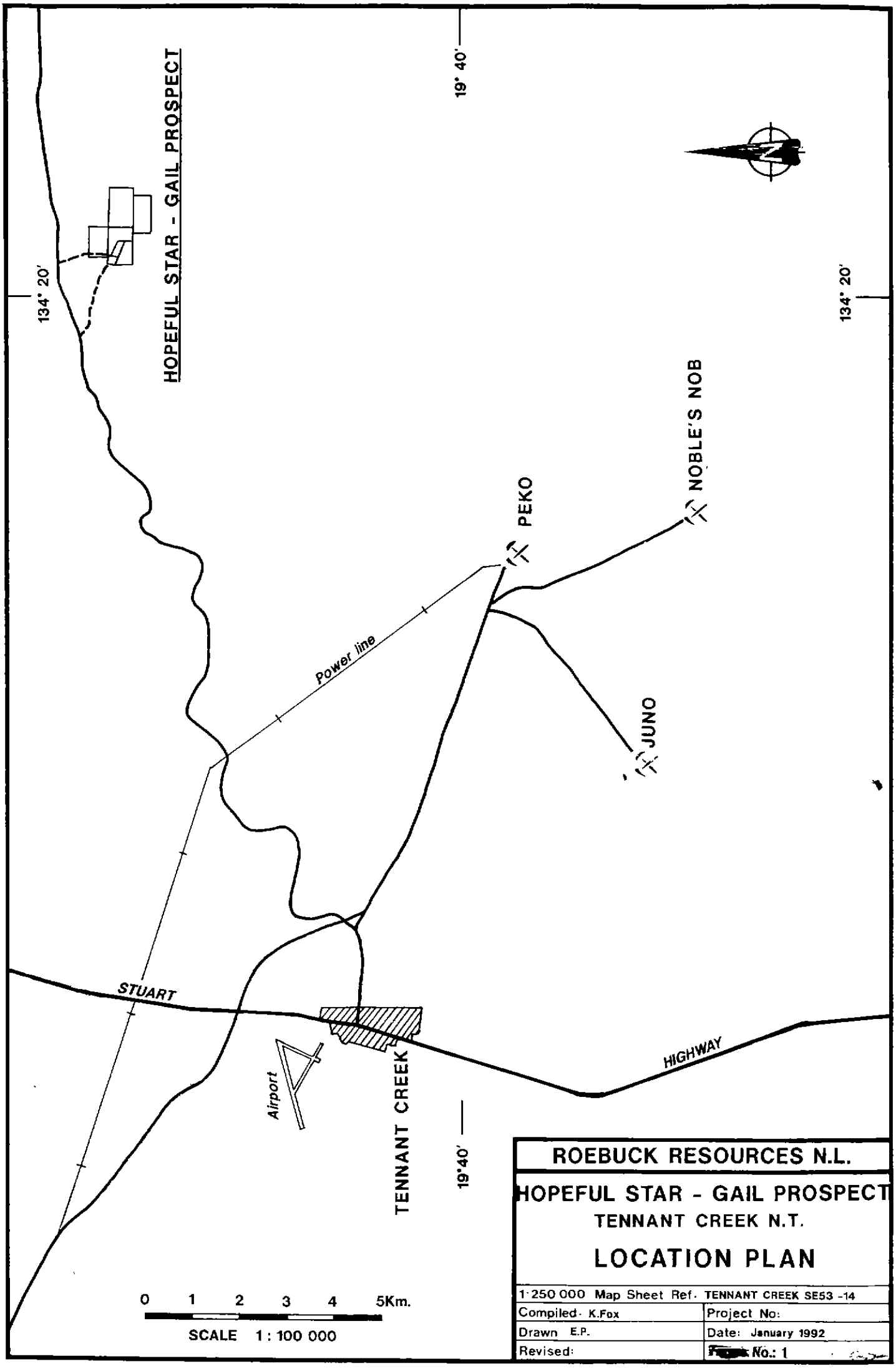
4. PREVIOUS MINING AND EXPLORATION

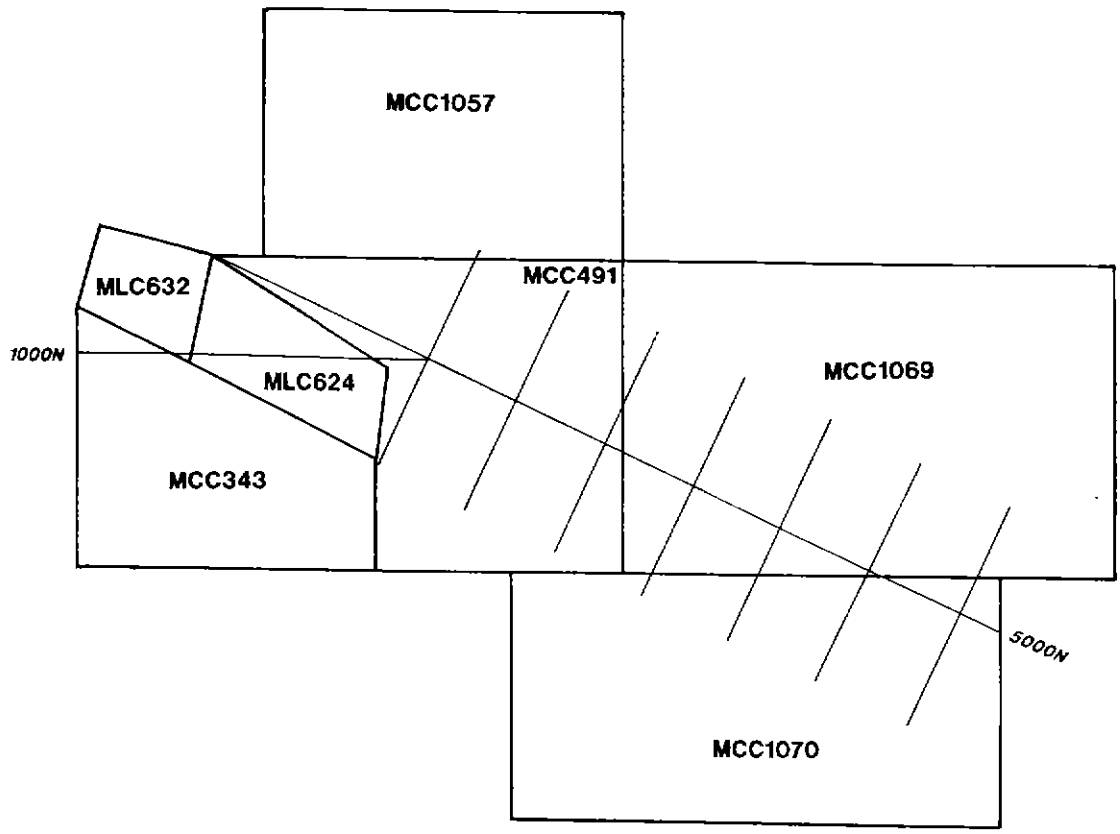
Mining History

There are no existing mine workings on MCC 1069 and 1070 though the old 'Hopeful Star" and "Hopeful Star Extended" mine workings are located nearby within Mineral Leases C 624 and C 632.

The original "Hopeful Star" mine is located on the south side of a prominent conical hill which rises about 25 metres above the surrounding country. It comprises two shallow (about 5 metres) shafts, a small open pit and an adit. About 70 metres of drives extend beneath the hill.

Ivanac, 1954 records that, up to June 1952 the mine had produced 1,641.27 tonnes of ore which yielded 5,303 grams of gold at an average grade of 3.23 grams per tonne. Tailings averaged 2.84 grams per tonne suggesting a head grade of 6.07 grams per tonne.


HOPEFUL STAR - GAIL PROSPECT
19° 40'
134° 20'
134° 20'
PEKO
NOBLE'S NOB
JUNO
Power line
STUART
HIGHWAY
Airport
TENNANT CREEK
19°40'
0 1 2 3 4 5Km.
SCALE 1 : 100 000
ROEBUCK RESOURCES N.L.
HOPEFUL STAR - GAIL PROSPECT
TENNANT CREEK N.T.
LOCATION PLAN
1:250 000 Map Sheet Ref. TENNANT CREEK SE53 -14
Compiled: K.Fox
Project No:
Drawn E.P.
Date: January 1992
Revised:
Figure No.: 1



MLC632,624 ROEBUCK/TCGL J.V.

MCC491,343 MCC1057 ROEBUCK/REMFREY J.V.

MCC1069,1070 ROEBUCK

0 400m 800m

SCALE 1 : 12 500

ROEBUCK RESOURCES N.L.

HOPEFUL STAR - GAIL PROSPECT

TENNANT CREEK N.T.

TENEMENT PLAN

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. 2

At some time prior to 1957 but after 1952 a 19.5 metre deep shaft was sunk on the "Hopeful Star Extended" prospect and some very small scale development occurred although no production was recorded. In 1957, a Uniter Uranium N.L. (McBride, 1957) mapped and sampled these workings.

On the 19.5 metres vertical depth level the shear had been developed by an 8 metres long drive. A 1.5 metres channel sample across the shear averaged 0.79 grams of gold per tonne.

On the 15 metres level development was more extensive. Stoping extended over a total east-west length of 18 metres and a maximum width of 9 metres. To the west of the shaft channel sampling indicated an average grade of 13.83 grams of gold per tonne over a horizontal width of 3.7 metres. Twelve metres further to the east in the stope east of the shaft channel sampling indicated an average grade of 18.01 grams of gold per tonne over 3.1 metres.

No further work is known to have been done until 1967 when B.A. Tapp undertook a programme of geological mapping, dump sampling, diamond drilling and Wagon (percussion) drilling.

Nine dump samples from the original "Hopeful Star" mine averaged 1.06 grams of gold per tonne. Two diamond drill holes totalling 255 metres were completed to test beneath "The Tooth". Neither ore grade nor significantly anomalous gold intersections were recorded. About 100 metres east-south-east of "The Tooth" a single vertical Wagon (percussion) drill hole was completed which encountered 3 metres averaging 29.4 grams of gold per tonne between 3 metres and 6 metres downhole depth.

In 1969 a shaft was sunk to 11.5 metres depth on the abovementioned hole and a further 20 vertical percussion holes were drilled in a close spaced array around it. One of these, HS13 located 9 metres east of the original hole encountered six metres averaging 14.46 grams per tonne.

From the bottom of the shaft (sunk by G.S. Remfrey and partners) stoping was extended over an average north-south width of 3 metres and length of 3 metres west and 6 metres east.

Recorded production (Tennant Creek Battery records, 1969) from this working was 201.17 tonned of ore which yielded 6,.572 grams of gold at an average grade of 32.67 grams per tonne. The tailings averaged 11.31 grams per tonne indicating a head grade of 43.98 grams of gold per tonne.

Attempts to continue mining this ore shoot in late 1969 were thwarted when the shaft collapsed. Attention was diverted to the "Hopeful Star Extended" workings. Production commenced but operations were again interrupted by shaft collapse. A new shaft was sunk 5 metres further to the west. This shaft reached the 15 metres level from which some additional ore was mined. A drive was extended for about 8 metres to the west at the 10 metres depth level with a small three metres long cross-cut to the north from its end.

Late 1969 to early 1970 production from the "Hopeful Star Extended" workings is believed to have been 182.47 tonnes of ore at an average gold grade of 10.29 grams per tonne. The head grade was approximately 11.8 grams per tonne.

In the years immediately preceding 1978, Gordon Stanley Remfrey removed the main "Hopeful Star" mine mullock dumps and transported them to the Tennant Creek Battery for treatment. A total of 613.56 tonnes of ore were treated and yielded 1,409 grams of gold at an average grade of 2.3 grams per tonne. The head grade was approximately 3.00 grams per tonne.

Exploration History

There is no known previous exploration activity over MCC 1069 and 1070, though substantial work has been undertaken on adjacent Hopeful Star tenements by Geotechnics (Aust.) Pty Ltd. for Inter-Copper NL, Tennant Creek Gold Ltd., Mentana Minerals NL and Roebuck Resources NL. This exploration was carried out between 1970 and the present.

One of the possibilities supported by the results of this work was an extension of geochemical anomalism ESE from the vicinity of the Hopeful Star workings. MCC 1069 and 1070 were pegged to cover the prospective ground.

5. EXPLORATION UNDERTAKEN ON MCC 1069 AND 1070 BETWEEN JANUARY 1992 AND JANUARY 1995.

Gridding

To test for an east-south-easterly extension of geochemical anomalism into the mineral claims, the Gail Grid was pegged prior to a subsequent programme of shallow vertical RAB drilling to test weathered bedrock. The baseline (5000N) was pegged on a bearing of approximately 114° TN from the north-east corner of MLC 632 (see Figure 2). Traverses 80 metres apart were turned north and south off the baseline with a length of 200 metres. 1.6 line kilometres of grid fell within MCC 1069 and 0.8 line kilometers lay within MCC 1070.

RAB Drilling

In 1991 the Gail Grid was constructed to cover a low order soil and bedrock gold anomaly about 600 metres east-south-east of the old 'Hopeful Star Mine". This grid was tied in to the previous "Hopeful Star" grid and bedrock geochemical RAB holes were drilled at intervals of 20 metres along grid north-south lines 80 metres apart.

93 holes were drilled for a total of 566 metres in MCC 1069 and 75 holes were drilled for a total of 449 metres in MCC 1070. Holes were drilled vertically through cover until an identifiable weathered bedrock sample was obtained. This was lithologically logged and then later assayed for gold (1ppb detection limit) plus bismuth, copper and lead (1ppm detection limit). Logs and assays are presented in the appendix.

No zones of strongly anomalous geochemistry were encountered.

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APPENDIX

SHALLOW VERTICAL RAB DRILLING TO ESTABLISH BEDROCK LITHOLOGIES AND GEOCHEMISTRY

- LOGS AND ASSAYS

358
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357
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SAMPLE NUMBER	GRID REFERENCE Metres E	Metres N	SOIL TYPE	HOLE DEPTH	ALTERATION	ROCK TYPE	Au ppb	Bi ppm	Cu ppm	Pb ppm
121		5100	T 3	6	Chl. grey silc.	dk purple br silt st	1	x	4	12
122		5120	T 3	6	"	dk purple fg gw.	1	x	8	9
123		5140	T 3	6	"	"	1	x	5	8
124		5160	T 3	6	Chl grey silc beige clay.	dk purple gw - qtz eyes ??	1	x	5	8
125		5180	T 3	6	"	" clayey-dk	1	x	6	8
126	~~10800E~~	5200N	T 3	6	" + ss afs	dk red silt st.	x	x	3	11
127	10800 E	5200N	T 4	6	o/w grey silcrete - chl.	beige gw.	x	1	6	8
128		5180	T 4	6	"	dk red silt st.	1	x	8	13
129		5160	T 4	6	beige chl clay.	"	1	x	4	10
130		5140	T 4	6	o/w chl silc beige clay.	beige silt st.	1	1	5	7
131		5120	T 5	6	beige chl clay qtz st. / frag c	beige br silt st.	2	x	9	9
132		5100	T 4	6	o/w chl silc beige clay	dk red silt st.	1	1	3	17
133		5080	T 4	6	" qtz frags ss	beige silt st	2	2	4	6
134		5060	T 4	6	o/w Chl. silc. beige clay	"	3	x	2	9

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5·10·91

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BEDROCK GEOCHEMICAL R.A.B. DRILL HOLE LOG. 6

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
135	10800E	5040	T 4	6	beige chl clay	dk red silt st.	1	X	3	11
136		5020	T 4 T	6	" " minor hem.	br beige & silt st.	2	X	4	8
137		5000	4	6	beige/dk purple clay minor hem	br dk red chl silt st.	3	X	4	6
138		4980	4	6			1	X	6	8
139		4960	T 4	6	dk purple chl clay	dk purple silt st.	1	1	7	12
Correct.										
"										
"										
"	146	4820N	T 4	6	"	br dk purple chl gw.	2	X	8	25
1.26m — 21 holes	147.	4800N.	T 4	6	dk purple chl clay	"	1	X	7	21
	148	10880E 4800N	T 4	6	dk purple Hem. chl clay q st.	br dk red silt st. hem q st.	1	X	17	13
	149	4820	T. 4	6	"	"	1	X	8	11
	150	4840	T. 4	6	" q fr. ss.	dk purple silt st.	1	X	14	24
	151	4860	T 4	6	"	"	1	1	13	14
	152	4880	T 4	6	dk purple chl. Fe clay.	VH br hem pur. silt st.	1	X	15	9
	153	4900	T 4	6	"	"	1	X	9	7
	154	4920	T 4	6	dk purp. chl clay hem st.	br. purp. silt st.	2	2	7	10
	155	4940	T 4	6	"	"	2	X	4	14
	156	4960	T 4	6	o/w chl silc. beige clay	beige silt st.	1	X	8	10
hem. st = hematite stringers	157	4980	T 4	6	" hem. st.	beige br gw hem st.	1	X	3	6
	158	5000N	T. 4	6	o/w chl clay hem st.	"	1	X	7	8
	159	5020	T 4	6	"	"	X	X	5	11
	160	5040	T 4	6	o/w chl. clay t beige "	dk red silt st.	X	X	4	21
	161	5060	T 4	6	"	-	X	X	2	10
	162	5080	T 4	6	-	"	1	2	4	12

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

216/36
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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
GR 163	10880E	5100N	T 4	6	o/w Carb? Chl Clay + beige clay	dk red silt st.	2	X	7	10
164	POR	5120N	T 5	5	Colluvium qfs rix frgs	qfs. Collu. qv?	1	X	14	12
165		5140	T 4	6	o/w chl clay + beige clay fr.	dk red silt st.	1	X	5	10
166		5160	T 4	6	o/w chl ? clay + beige clay hem	dk red br silt st.	1	X	6	9
167	POR	5180	T 5	5	Large qfs	qfs VH qv	1	1	11	13
168		5200N	T 5	6	Chl o/w clay + beige clay	dk red silt st.	X	X	6	8
169	10960E	5200N	T 4	6	o/w chl-carb? clay. + ss.	dk red br silt st.	1	X	4	10
170		5180	T 5	6	o/w chl-carb? clay. + hem. qfs	"	X	X	9	9
171		5160	T 5	6	o/w chl clay Carb? + hem st.	dk red/ purple chl br silt st.	1	X	6	12
172		5140	T. 4	6	o/w chl-carb? clay + hem st	"	X	X	6	10
173		5120	T 4	6	green chl clay + hem st (minor)	beige br silt st	X	X	4	9
174		5100N	T 4	6	green to o/w chl clay.	purple br silt st.	1	2	4	10
175		5080	T 5	6	greenish chl clay.	dk red silt st.	1	1	15	17
176		5060	T. 4	6	green. chl clay + hem st.	dk red br silt st. ss qfs	1	X	3	13
177		5040	T 4	6	green. chl clay + hem st. ss. qfs	dk red silt st.	1	1	3	8
178		5020	T 4	6	o/w gr. chl-carb clay + beige clay	dk red br silt.	X	X	4	9
179		5000	T. 4	6	o/w gr. chl-carb clay + purple clay ss qfs	purple br silt st	X	X	3	7
180		4980	T 4	6	"	"	X	X	5	15
181		4960	T 4	6	greenish to dk purple chl clay.	chl. dk purple br silt st	1	X	4	9
182		4940	T 4	6	o/w chl.-carb clay + beige clay	br beige silt st.	1	1	3	7
183		4920	T 4	6	beige clay qfs stringers	beige silt st.	1	X	5	8
184		4900N.	T 4	6	beige chl clay hem. st.	beige br silt st.	1	X	13	7
185		4880	T 4	6	purple chl clay o/w chl st.? hem.	br purple silt st.	1	X	10	16
186		4860	T 4	6	purple chl clay o/w chl st. or Carb?	br purple silt st.	1	X	12	34
187	POR 5m	4840	T 5 3	4 5	purple chl clay	VH purple silt st.	X	2	6	41
188		4820	T 4	6	o/w-cream Sil. Carb? Hem + ss qfs st.	purple br silt st.	1	X	6	12
189		4800	T 4	6	"	"	1	X	15	12

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1 25 21
75

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

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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
GR 190	11040E	4800N	T 4	6	o/w Chl Carb ± clc? beige clay	beige br. Silt st.	1	1	6	16
191		4820	T 4	6	o/w Chl silc Carb? beige clay.	purple cr silt st.	x	x	5	11
192		4840	T 4	6	o/w chl. silc Carb? beige clay.	purple chl silt st.	1	x	10	10
193		4860	T 4	6	"	"	2	x	3	11
194	10R 5m	4880	T 3	5	hem. st. o/w chl. clay + silc	beige br. silt st.	1	x	8	12
195		4900N	T 4	6	minor hem st. beige chl. clay	beige br. silt st.	1	1	6	19
196		4920	T 4	6	hem. st. beige clay	beige br. silt st.	1	x	33	5
197	10R 5m	4940	T 4	4	hem st. beige clay	beige br. silt st.	2	1	8	7
198		4960	T 4	6	brown chl clay. hem st	brown br. cl silt st.	1	x	4	5
199		4980	T 4	6	pink to o/w clay - chl. minor hem. ± alt'sat.	pink to brown br. gw.	1	1	5	4
200		5000N	T 4	6	purple chl ± clay ± cream st.	purple gw br.	2	x	7	8
201		5020	T 4	6	cream to green chl clay st. beige clay.	br. purple gw.	1	x	4	7
GR 202		5040	T 4	6	cr to gr clay - chl.	"	1	x	2	9
203		5060	T 4	6	cr to gr chl clay - silc hem st.	pr dk red silt st.	1	x	7	10
204		5080	T 4	6	cr. to gr. chl clay st. beige clay ± hem st.	br dk red gw.	1	x	3	5
205		5100	T 4	6	greenish chl clay.	"	x	x	4	7
206		5120	T 4	6	"	"	1	x	3	7
207		5140	T 4	6	greenish - cr. silc clay. ± qtz frags.	br dk red to beige gw.	1	x	7	7
208		5160	T 4	6	"	"	1	x	6	10
209		5180	T 4	6	green to cream st. - chl.?	br. beige silt st.	1	x	7	8
rd. 498/84 210		5200N	T 4	6	"	"	1	x	5	10
16·10·91 211	10R 4m 11120E	5200N	T 4	4	qtz frags ± Carb Coll.	Colluv.	1	x	11	11
212		5180	T 4	6	cream carb clay. beige chl	dk red silt st.	x	x	6	16
213		5160	T 4	6	Cream Carb St - calcrete? purple chl clay	purple Silt st	1	x	5	8
214		5140	T 5	6	Cr. Carb st. beige clay	"	1	2	6	8
215		5120	T 4	6	cream Carb st clay?	beige gw.	1	x	2	7
216		5100	T 4	6	cr - gr. carb st qtz. large	dk red silt st.	1	1	7	11

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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
16.10.91 GR 217	11120	5080N	T 4	6	Cream carb st. beige clay	dk red silt st.	1	X	5	11
218		5060	T 4	6	"	"	1	X	6	7
219		5040	T 4	6	Cream Carb st hem st.	beige "	1	X	4	7
220		5020	T 4	6	carb. calc.? hem. st qfs	dk red br silt st.	1	X	2	11
221		5000N	T 4	6	"	beige silt st.	1	X	2	5
222		4980	T 4	6	beige clay	"	1	1	4	4
223		4960	T 4	6	"	"	1	X	12	8
224		4940	T 4	6	beige clay calc-cream	"	2	X	7	9
225		4920	T 4	6	beige clay cream calc. hem st.	beige br silt st.	2	X	8	9
226		4900	T 4	6	"	"	1	1	6	11
227		4880	T. 4	6	calc-carb st	beige silt st.	2	X	6	10
228		4860	T 4	6	calcrete	"	1	X	3	9
229		4840	T 4	6	dk purple chl clay. cream calc. hem st	dk red cl silt st br.	1	X	2	19
230		4820	T 4	6	cream calc st. minor hem st beige clay	br beige silt st.	1	X	1	15
14/21 231		4800	T 4	6	"	dk red br silt st.	1	7	3	60
232	11200E	4800N	T 4	6	"	"	1	2	5	66
233		4820	T 4	6	green/sl clay	dk red Silt st.	1	X	8	21
234		4840	T 4	6	dk purple clay. grey o/c sil or calc.	dk purple Silt st.	1	2	10	21
235		4860	T. 4	6	o/c grey calc talcose?	"	1	X	3	19
236		4880	T 4	6	calcrete st. greasy talc. clay	br beige cl silt st	1	X	5	9
237		4900	T. 4	6	calc. st. hem st. beige clay.	beige cl gw. br.	1	X	4	10
238		4920	T 4	6	"	"	1	X	5	13
239		4940	T 4	6	calc st. minor hem sl.	beige gw. br.	1	X	5	6
240		4960	T 4	6	"	"	1	X	7	8
241		4980	T 4	6	"	beige br gw.	2	X	5	7
242		5000	T 4	6	Calc-carb st hem st.	"	1	X	3	6
243		5020	T 4	6	ss q fs calc st hem st.	dk red br silt	1	X	4	9

6.10.91

Bedrock Geochemical R.A.B. Drill Hole Log.

196/33

nth b.l. alluvium thicker ?order

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
GR 244	11200E	5040	T. 5	6	Calc-carb ss qtz st. hem st. dk purple clay-chl	dk red cl br siltst.	1	X	4	7
245		5060	T. 4	6	"	"	1	X	5	7
246		5080	T 4	6	calc-talcose clay/st.	"	1	X	4	9
247		5100	T 4	6	dk purple chl clay. minor calc/carb st.	dk red siltst.	1	X	3	6
248		5120	T 4	6	"	dk red br gw.	1	X	4	7
249		5140	T	6	green clay Talc? cream-calc. br carb.	"	1	1	5	8
250		5160	T 4	6	o/w calc-carb dk purple chl clay. qtz frags	dk red cl br siltst.	1	X	5	13
251		5180	T. 4	6	o/w calc-carb.	"	1	X	7	14
50/42 252		5200	T 4	6	Large qtz o/w calc-carb.	"	X	X	4	4
253	11280	5200N	T 4	6	o/w calc-carb. hematite banding	dk red hem siltst, fresh	1	1	7	12
254		5180	T 4	6	cream carb veining (1cm) qtz	dk red br siltst.	1	X	4	23
255		5160	T 4	6	cream o/w carb clay. qtz beige chl clay	"	1	X	8	20
256		5140	T 4	6	beige purple chl clay o/w carb	dk purple br siltst.	1	X	3	8
257		5120	T. 4	6	o/w calc.	grey br siltst.	1	X	4	4
258		5100	T 4	6	o/w cream carb veining beige chl clay.	beige. "	1	X	6	7
259		5080	T 5.5	6	interface colluv & bedrx.	weathered brown siltst.	2	X	9	9
260		5060	T 5	6	cr/o/w calc-carb. dk purple chl clay	dk red br siltst.	1	X	6	11
261		5040	T 4	6	"	"	1	X	5	14
262		5020	T 4	6	hem. banding o/w calc-carb beige chl clay	dk red banded siltst.	1	X	5	8
263		5000	T 4	6	cream carb. veining. purple chl clay	dk red br siltst.	1	X	4	8
264		4980	T 4	6	cr. calc./carb	grey br gw	1	X	13	6
265		4960	T 5.5	6	hem nodules qtz	brown weathered gw.	1	X	8	10
* 266		4940	T 6	9	hem nodules & st. qtz.	dk red br gw.	1	X	10	13
267		4920	T 5	6	greenish clay - carb ? calc.	"	1	X	11	19
268		4900	T. 5	6	purple chl clay, cr. calcrete - carb.	dk red br siltst	1	X	8	14
* 269		4880	T 6	9	purple chl clay cream calc + carb	purple br silt st	1	X	1	16
270		4860	T. 4	6	cream calc.-carb. beige clay	dk red siltst.	1	X	5	11

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
16.10.91	271	11280E	4840	T 4	6	dark purple chl clay. greenish talc - carb clay	dk purple br silt st.	1	X	4	17
	272		4820	T 4	6	"	chl silt st.	1	X	4	36
82/63	273		4800	T 4	6	calc-carb. br. sst.	"	1	X	7	13
	274	11360	4800N	T 4	6	carb/calc br purple chl. clay.	"	1	X	4	10
	275		4820	T 4	6	dk purple chl clay.	chl silt st.	1	X	6	9
*	276		4840	T 6	9	dk purple chl clay. Hem st. carb-calcc.	dk purple chl sdt st.	1	X	4	34
	277		4860	T. 4	6	"	"	1	X	4	15
	278		4880 N.	T 4	6	calc-carb-talcose? st. beige clay.	dk red br silt st	1	2	5	27
	279		4900	T 4	6	calc-carb st. hem nodules purple chl clay	dk purple br silt st tr qtz frags	1	X	9	12
	280		4920	T 4	6	"	dk purple br silt st	1	X	5	11
	281		4940	T. 4	6	calc + carb v. beige chl clay	dk red br gw.	1	X	4	12
	282		4960	T 4	6	calc. + carb v. beige chl clay	dk red br silt st.	1	X	7	21
	283		4980	T 4	6	minor carb.	dk red br silt st.	1	X	11	8
	284		5000	T 4	6	"	"	1	X	3	7
	285		5020	T 4	6	green - o/w calc. talc.? clay	red br gw	1	X	6	6
*	286		5040	T 6	9	dk purple chl clay. calc. Fe rich.	dk purple cl silt st.	1	X	4	4
	287		5060	T 4	6	o/w calc. beige chl clay	brown weathered gw.	1	1	4	6
*	288		5080	T 6	9	beige chl clay calc - greenish talc? clay.	purple gw.	X	X	2	4
	289		5100	T 5	6	calc-carb clay - o/w gr.	brown gw.	1	X	7	9
	290		5120	T. 5	6	grey-gr. carb talc clay + qfs	brown br gw.	1	X	4	5
	291		5140	T 5	6	"	"	X	X	8	8
	292		5160	T 5	6	-	"	1	X	7	7
	293		5180	T. 5	6	grey-gr talc carb? Hem. nod + st. qfs	br red gw.	X	1	12	7
84/517. 2nd.	294		5200N.	T 4	6	grey-gr talc? carb purple chl clay	dk purple br silt st	1	X	5	15