GEOCHEMICAL AND GEOLOGICAL ASSESSMENT REPORT on the ASH, BARBI AND RACHEL CLAIMS (ALBERT RIVER PROPERTY) of DIA MET MINERALS LTD.

GOLDEN MINING DIVISION

NTS:	082J/12
Latitude:	50° 38' North
Longitude:	115° 35' West
Owner:	Dia Met Minerals Ltd.
Operator:	Dia Met Minerals Ltd.
Consultants:	Discovery Consultants
Author:	T.H. Carpenter
Date:	October 8, 1992

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SUMMARY

The Albert River Property, owned by Dia Met Minerals Ltd., consists of three claims containing 42 claim units, located approximately 75 kilometres east of Radium, B.C.

The claims are underlain by various units of the Chancellor Group comprising limestone, argillaceous limestones, slates and calcareous slates.

The property was staked in 1980 to cover the area of a heavy mineral tungsten anomaly. Follow-up work included an airborne magnetic survey in 1981 and in 1984 a program of mapping, sampling, line cutting and geophysical surveys comprising magnetics, I.P. and resistivity, which outlined probable sources for the anomalous tungsten.

Subsequent work was concentrated in the northern part of the claim group in the area of high Au (to 50,000 ppb) and high rare earth (Ce-La-Th) heavy mineral anomalies. This work included a radiometric survey to define a possible alkaline intrusion with auriferous skarns, follow-up heavy mineral sampling, prospecting and litho-geochemical sampling. Further anomalous values were detected in the heavy mineral samples.

This report describes the work done on the Albert River property in July 1992. This program of soil sampling, prospecting and geological mapping was carried out in an attempt to define the source of the heavy mineral anomalies.

INTRODUCTION

The Albert River Property comprises 3 contiguous claims totalling 42 units. These claims, the Ash, Barbi and Rachel, are located in the Golden Mining Division and are 100% owned by Dia Met Minerals Ltd. The 1992 program consisted of contour and grid soil sampling bracketing a drainage containing high (to 50,000 ppb) Au and high rare earth (Ce-La-Th) heavy mineral anomalies.

Previous work, including sampling of quartz float material and continuous chip sampling along the ridge above the drainage, had failed to adequately define the source of the anomalies.

The 1992 program was designed to test for a possible source for the anomalies within the calcareous rocks underlying the anomalous drainage. As well it is possible that Au values may be segregated within the sideritic or calcitic component of quartz/carbonate veins which occur in the limestone and calcareous slates of the area.

LOCATION, ACCESS and TOPOGRAPHY

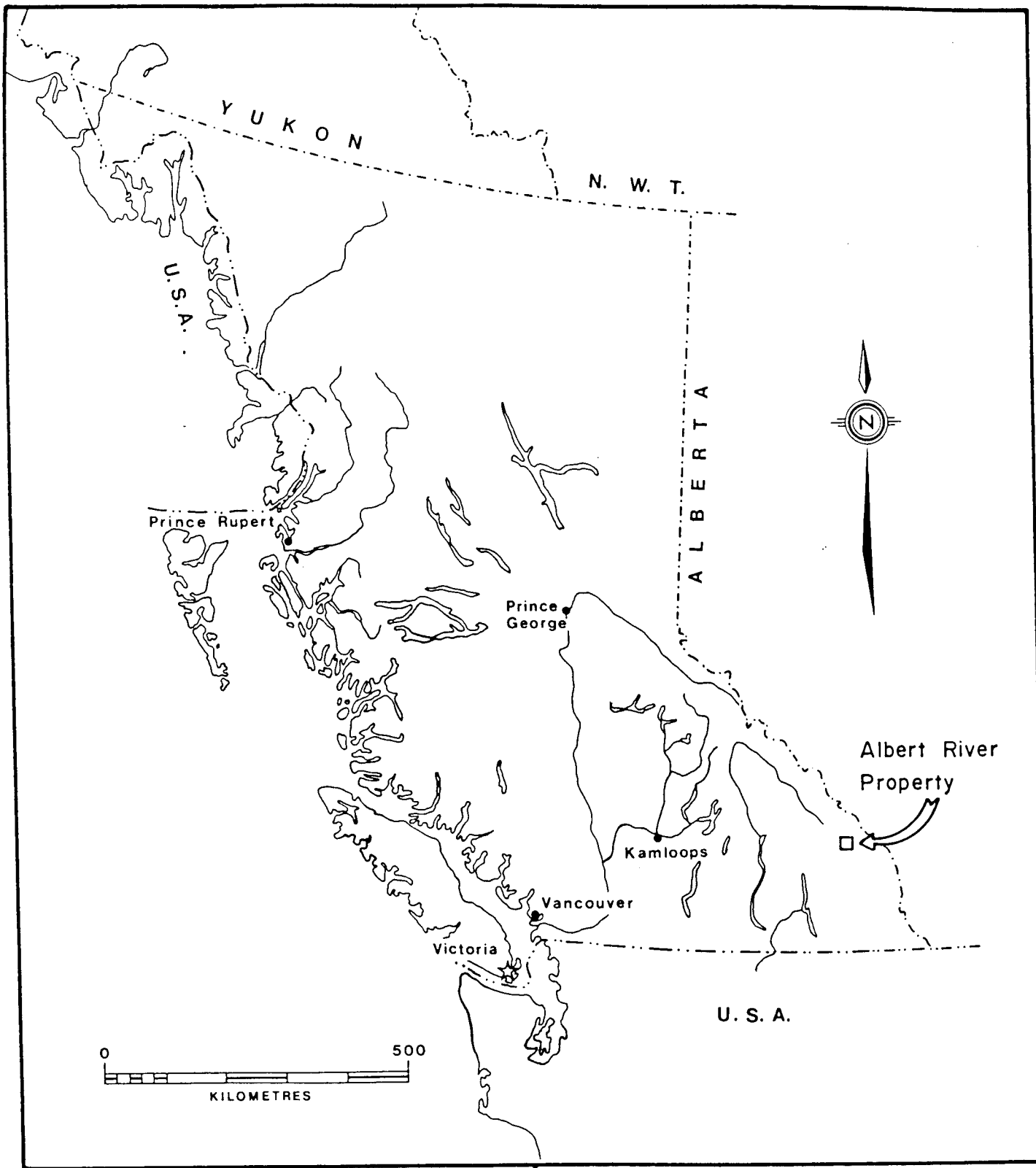
The Ash, Barbi and Rachel claims are centred at Latitude 50°38′ N, Longitude 115°35′ W in the Golden Mining Division, approximately 75 kilometres east of Radium, B.C. The claims lie near the west headwaters of Albert River between Tangle Peak and Albert River (*Figure 1*).

The claims are accessible by a four wheel drive vehicle from Highway 93 at a point 4 kilometres north of Swede Creek. From this point logging roads lead 20 kilometres southeasterly to Palliser River, crossing the Kootenay River at Yearling Creek, proceeding 8 kilometres easterly to the Albert River and then northerly for 12 kilometres to the property.

The northern portion of the property is accessed 12 kilometres up the Cross River road from Kootenay River by proceeding southwesterly 12 kilometres to Miller Pass and southerly 2 kilometres to the central part of the Barbi claim. The section over Miller Pass and to the south is poorly maintained.

Access is also available up Cochran Creek at a point 4 kilometres south of where the main logging road crosses the Kootenay River. Difficult four wheel drive access is possible for 11 kilometres up Cochran Creek to a point approximately 2 kilometres west of the property.

The east side of the property, on the west side of a tributary of the Albert River, is at an elevation of 1,300 metres and rises steeply to the west to over 2,600 metres. The central portion of the property is difficult to traverse because of steep topography and dense bush.



DISCOVERY Consultants	DIA MET MINERALS LTD.
ALBERT RIVER PROPERTY	LOCATION MAP

DATE: JULY 14/1992	PROJECT: 540	SCALE: As Shown	N.T.S.: 82-J/12E	M.D.: GOLDEN	FIGURE: 1

DWG - 540-001

PROPERTY

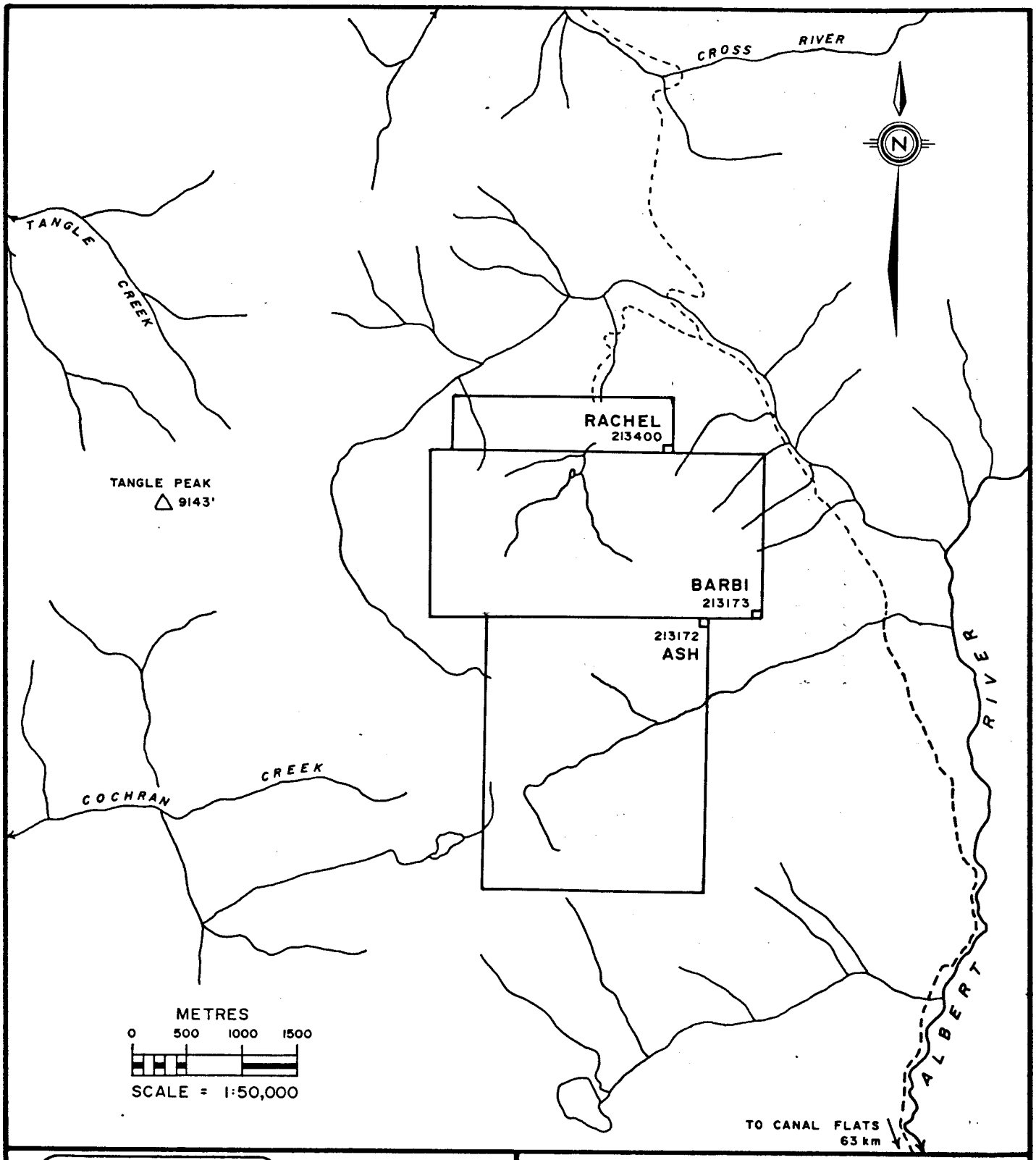
The Albert River Property consists of three 4-post claims, totalling 42 units, in the Golden Mining Division, British Columbia (*Figure 2*). The claims were located in July, 1980 and are owned by Dia Met Minerals Ltd.

The following table lists the pertinent information:

Claim Name	Record #	Units	Expiry Date *	Owner
Ash	213172	20	July 10/1993	Dia Met Minerals Ltd.
Barbi	213173	18	July 10/1993	Dia Met Minerals Ltd.
Rachel	213400	4	July 10/1993	Dia Met Minerals Ltd.

* Pending acceptance of this report

These claims are grouped as the W. Albert River Group.



DISCOVERY Consultants

DIA MET MINERALS LTD.

ALBERT RIVER PROPERTY

CLAIM MAP

DATE: JULY 14/1992	PROJECT: 540	SCALE: 1:50,000	N.T.S.: 82-J/12E	M.D.: GOLDEN	FIGURE: 2

DWG-540-002

HISTORY

The property was originally staked in 1980 to cover the area of a tungsten anomaly discovered during the course of an extensive heavy mineral stream sediment reconnaissance survey. Follow-up exploration, comprising various exploration techniques, were successful in following mineralization upstream but did not define a bedrock source for the mineralization.

The property was covered by an airborne magnetic survey in 1981 to outline possible skarn zones associated with intrusive rocks. No marked anomalous areas were outlined by the survey.

In 1982 the claims were mapped geologically. The mapping revealed the presence of a spotted hornfels and quartz-carbonate veins possibly associated with a buried intrusive within calcareous phyllites, argillaceous limestone and calcareous argillites.

During 1984 various exploration surveys were carried out including line cutting, mapping and prospecting, geophysics (ground magnetometer, I.P. and resistivity), conodont sampling and heavy mineral sampling.

The geophysical surveys indicated the interpreted presence of a buried intrusion in the central part of the claims flanked by skarn zones. The areas surrounding the intrusion are intensely anomalous in tungsten and exhibit zoning patterns in Cu-Pb-Zn, Au-As and Mo.

The heavy mineral sampling defined an area in the northern part of the claims outlined an area with high Au (50,000 ppb), La (51,700 ppm) and Ce (56,300 ppm).

The area of these anomalous samples was covered by additional exploration including a ground magnetometer survey in 1986 and in 1990 a ground radiometric survey and geochemical rock and heavy mineral sampling. The heavy mineral sampling confirmed the presence of anomalous gold values in the area. No anomalous Au, W or rare earth elements were detected in the talus and outcrop samples collected.

In 1991 continuous rock chip samples were collected along the ridge drained by the stream anomalous in Au values and within the drainage itself. None of these sample yielded anomalous results in Au or other elements.

GEOLOGY and MINERALIZATION

The claims are reported by Fipke & Suggitt (1987) and Fipke (1990) to be underlain by the Middle Cambrian Chancellor Group of marine sedimentary rocks in three units. The basal unit (Chap) consists of a sequence of light and dark, thin and medium-bedded argillaceous limestone with local beds of calcareous argillite containing limestone nodules. This basal unit is conformably overlain by a locally non or weakly calcareous grey shale or locally sericitic, pelitic phyllite (Chpp). This grey shale unit appears conformably overlain by a commonly cream coloured thick-bedded to massive limestone (Chml).

The marine sedimentary and sill units are tightly isoclinically folded about gently plunging to subhorizontal NNW or SSE trending fold axis with NNW trending and steeply (50 - 80°) west dipping axial planes.

Quartz-carbonate veins that range up to 1 to 2 metres thick are, for the most part, confined to the axial plane cleavages of folds. Locally veins contain minor amount of epidote and pyrite with chlorite alteration envelopes or pyrite and chalcopyrite with muscovite sericite alteration envelopes. In some minor cases the quartz carbonate veins contain minor amounts of galena and sphalerite.

A 3 kilometre zone of silicification is associated with a central area of intensely anomalous scheelite and moderately anomalous Cu ± Au and Pb heavy mineral geochemistry surrounded by strongly anomalous Cu and Pb, moderately anomalous Au-As and Zn, and weakly anomalous Mo.

The area of intensely anomalous scheelite is coincident with two magnetic highs postulated to represent possible skarn deposits near the contact of a ± 550 metres in diameter buried intrusive cupola. This area contains localized quartz - sericite ± andalusite alteration. A large block of intensely scheelite mineralized marble was located by prospecting directly downslope from one of the ground magnetic highs.

1992 Program

Work on the Albert River Property in 1992 comprised prospecting and mapping in the area of the creek anomalous in Au in heavy mineral samples, contour soil sampling at 25 metre intervals along slope and above the anomalous sites and at 50 metre grid intervals along lines bounding the above drainage.

The above work was carried out on the Barbi claim. A total of 80 soil samples and 12 rock samples was collected. The 'B' soil horizon was sampled at an average depth of 30 cm. Soil samples were collected in paper soil bags. Both soil and rock samples were sent to Eco-Tech Laboratories Ltd. in Kamloops for Au analysis, by fire assay/A.A. methods, and multi-element analysis by I.C.P. methods. Sample location are shown on Figure 3 and gold values plotted on Figure 4. Analytical results are contained in Appendices A and B.

In addition to the above, the twenty two rock chip samples collected in 1991 from the ridge above the drainage were subjected to heavy mineral extraction and analysis. The purpose was to:

1. more accurately determine the gold content by processing a large complete sample

2. determine which size fraction contained the gold, if present

Analytical procedures and results are contained in Appendix C. Sample locations are shown on Figure 3 and gold values plotted on Figure 4.

PROGRAM RESULTS

Soil sampling results were disappointing. Of the 80 samples collected, only two (UL-51 & UL-52) contained anomalous gold values, 20 and 40 ppb respectively. Both these samples however were located in the upper drainage of the anomalous creek.

A NW-SE trending fault zone noted during the field work (Fig 3) contained narrow (to .3 m) quartz-carbonate veins. Since this fault was found in the vicinity of sample AR-05 it was viewed as a possible source for the anomalous heavy mineral samples. However chip samples collected from the veins contained no significant gold values.

The location of rock samples is shown on Figure 3 and rock types are described in Appendix A.

Attention was paid to the float in the creek near the anomalous heavy mineral samples. The results are summarized below.

AR-01 grey shaly limestone (60%) and light brown weathering thinly bedded dolomitic limestone

AR-02 similar to AR-01 except about 5% quartz-carbonate vein float

AR-03 light brown weathering thinly bedded limestone. One large boulder of dolomitic limestone with grey limestone rip-up clasts. Outcrop in area; shaly dolomitic limestone

AR-04 grey shaly limestone and massive limestone (80%) and light brown dolomitic limestone (20%) cut by veinlets of carbonate

Upstream from AR-04 the rock is phyllitic and interbedded with shaly limestone.

The analysis of heavy minerals extracted from previously collected chip samples confirms the low gold values obtained, except for sample XA-01. The -60HN fraction contained 6990 ppb Au. Since the sample size is very small (0.17 g) the amount of gold in the several kg of rock is still small. However, the sample is anomalous when compared to the other chip samples and its location at one end of a sampling line might indicate an exploration potential nearby.

To date the heavy mineral drainage sediment anomalies have not been fully explained. The anomalous gold values in one chip sample may be indicative of a gold source. However during the field work it was noted that the anomalous creek contains significant accumulations of glacial till, whereas a parallel drainage immediately to the south which cuts across the same rock units and drains the area of the anomalous XA-01 rock sample, contained little glacial till.

Perhaps significantly this parallel drainage contained no significant heavy mineral anomalies. This would perhaps indicate a source within the glacial till for the gold values in the anomalous creek.

BIBLIOGRAPHY

Benmore, G., Assessment Report on the Albert River Claims, October, 1991.

Fipke, C.E., Report on Albert River Tungsten Property, for Dia Met Minerals Ltd. September, 1985.

Fipke, C.E. & Suggitt, J.C. Report on the Albert River Tungsten Property, September, 1987.

Fipke, C.E., Assessment Report on the Albert River Claims, September, 1990.

Northcote, K.E. & Gower, S.C. Report on Albert River Tungsten Property for Dia Met Minerals Ltd., June, 1983.

Schiller, E.A. Geophysical Report on the Albert River Claims, April, 1987.

STATEMENT OF COSTS

1.	Professional Services		
	T.H. Carpenter, geologist		
	field mapping, prospecting, rock sampling including mob/demob		
	5 days @ $384/day	$ 1920.00	
	July 5 - 9, 1992		
	data compilation, report writing		
	2 days @ $384/day	768.00	
	W.R. Gilmour, geologist		
	data compilation		
	1 day @ $400/day	400.00	$ 3088.00
2.	Personnel		
	D. Tomelin		
	5 days @ $150/day		750.00
	July 5 - 9, 1992		
3.	Transportation		
	4x4 vehicle		
	5 days @ $120	$ 600.00	
	July 5 - 9, 1992		
	Fuel	194.70	794.70
4.	Accommodation, meals		330.06
5.	Analysis and Sample Preparation		
	Soil samples		
	80 soils @ $15.00	1200.00	
	Au + 30 element I.C.P.		
	12 rocks @ $15.75	213.00	
	Au + 30 element I.C.P.		
	22 heavy mineral samples		
	- acid leaching (supplies & labour)	699.09	
	- heavy mineral extraction	4002.50	
	- neutron activation analysis		
	39 analyses @ $12.50	700.50	6845.09
6.	Drafting		586.40
7.	Field supplies, rental		175.28
8.	Data compilation, secretarial, printing, telephone etc.		328.41
		Total	$12867.94

STATEMENT OF QUALIFICATIONS

I, THOMAS H. CARPENTER, of 1102 21st Avenue, Vernon, B.C., DO HEREBY CERTIFY that:

1. I am a consulting geologist in mineral exploration associated with Discovery Consultants, Vernon, B.C.

2. I am a graduate of Memorial University of Newfoundland with a Bachelor of Science degree in Geology.

3. I have been practising my profession continuously for the past twenty-one years in Canada, the United States and Australia.

4. I am a Fellow of the Geological Association of Canada.

5. This report is based on the reports of others and upon knowledge gained during a field programme in July, 1992.

6. I hold no interest, either direct of indirect in the Albert River property.

T. H. Carpenter

Thomas H. Carpenter

October 8, 1992

Vernon, B.C.

Appendix A

Analytical Procedures and Results

Rocks

APPENDIX A

Description of Rock Samples

TC-01	grab sample; quartz-carbonate veining in thin-bedded limestone
TC-02	grab sample; brown weathering slaty limestone; limonite on fractures
TC-03	float; carbonate-quartz pods in black c.g. limestone; py disseminated in limestone and minor galena in carbonate-quartz
TC-04 05 06	grab samples; quartz-carbonate veins in 15 to 25 cm wide fault zones (3 to 5 m spacing with 140°/60°N attitude)
TC-07	grab sample; calcite vein in c.g. limestone
TC-08	float; quartz-carbonate vein
TC-09	grab sample; light brown breccia
TC-10	float; breccia; limestone fragments in light brown carbonate matrix
TC-11	float; dark brown weathering (dark grey when fresh) cut by carbonate and quartz veinlets bounded by sericite alteration
TC-12	float; light brown weathering dolomitic limestone cut by quartz veinlets and carbonate veinlets with carbonate cutting quartz veins; minor sericite

ANALYTICAL PROCEDURES

Geochemical Analysis

by Eco-Tech Laboratories Ltd. :

ELEMENT		LOWER DETECTION		UPPER LIMIT	EXTRACTION	METHOD
Au	Gold	5.00	ppb	1000.00	$HCl-HNO_3$	fire assay/atomic absorption
Al	Aluminum	0.01	%	15.00	$HCl-HNO_3$	ind. coupled plasma
Ag	Silver	0.20	ppm	30.00	$HCl-HNO_3$	ind. coupled plasma
As	Arsenic	5.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
B	Boron	2.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Ba	Barium	5.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Bi	Bismuth	5.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Ca	Calcium	0.01	%	15.00	$HCl-HNO_3$	ind. coupled plasma
Cd	Cadmium	1.00	ppm	1000.00	$HCl-HNO_3$	ind. coupled plasma
Co	Cobalt	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Cr	Chromium	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Cu	Copper	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Fe	Iron	0.01	%	15.00	$HCl-HNO_3$	ind. coupled plasma
K	Potassium	0.01	%	10.00	$HCl-HNO_3$	ind. coupled plasma
La	Lanthanum	10.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Mg	Magnesium	0.01	%	15.00	$HCl-HNO_3$	ind. coupled plasma
Mn	Manganese	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Mo	Molybdenum	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Na *	Sodium	0.01	%	10.00	$HCl-HNO_3$	ind. coupled plasma
Ni	Nickel	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
P *	Phosphorus	10.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Pb	Lead	2.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Sb	Antimony	5.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Sn	Tin	20.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Sr *	Strontium	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Ti *	Titanium	0.01	%	10.00	$HCl-HNO_3$	ind. coupled plasma
U	Uranium	10.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
V	Vanadium	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
W	Tungston	10.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Y	Yttrium	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Zn	Zinc	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma

• Please note: certain mineral forms of those elements above marked with an asterisk will not be soluble in the $HCl-HNO_3$ extraction. The ICP data will be low biased.

APPENDIX A

Date of Report: 14-Aug-92 Project 540 Albert River

Rock Sampling Results
1992

Reference: 92ETK-380

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Bi ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mo ppm	Ni ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
TC-01	<5	<.2	<5	10	<5	3	198	32	0.92	10	11	2	<5	<10	22
TC-02	<5	<.2	<5	20	<5	2	18	4	1.28	<1	3	<2	10	<10	19
TC-03	<5	<.2	<5	35	<5	<1	71	9	0.36	4	4	32	<5	<10	8
TC-04	<5	<.2	<5	10	<5	1	126	5	0.53	4	3	2	<5	<10	16
TC-05	<5	<.2	<5	5	<5	<1	48	2	0.59	2	2	<2	<5	<10	7
TC-06	<5	<.2	<5	10	<5	1	52	<1	0.64	1	2	<2	5	<10	8
TC-07	<5	<.2	<5	<5	<5	<1	38	<1	0.32	1	2	<2	5	10	5
TC-08	<5	<.2	<5	<5	<5	<1	115	1	0.39	4	2	<2	<5	<10	10
TC-09	<5	<.2	5	45	<5	10	18	6	4.92	1	30	8	5	10	60
TC-10	<5	<.2	<5	5	<5	1	42	2	0.81	1	3	<2	<5	10	14
TC-11	<5	<.2	5	5	<5	2	38	4	1.68	2	5	<2	10	<10	16
TC-12	<5	<.2	<5	5	<5	1	39	1	1.17	1	2	12	10	10	14

Project 540

Rock Sampling Results (part 2)

Sample ID	Al %	B ppm	Ca %	Cd ppm	K %	La ppm	Mg %	Mn ppm	Na %	P ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm
TC-01	0.40	<2	4.52	<1	0.03	<10	0.39	89	<.01	60	<20	110	<.01	<10	2
TC-02	0.62	<2	13.88	<1	0.06	<10	5.13	226	<.01	180	<20	1004	<.01	<10	4
TC-03	0.12	<2	>15.00	<1	0.03	10	0.48	156	<.01	160	<20	816	<.01	<10	1
TC-04	0.17	<2	8.12	<1	0.01	<10	0.21	191	<.01	40	<20	566	<.01	<10	<1
TC-05	0.04	<2	>15.00	<1	<.01	20	0.29	462	<.01	30	<20	2412	<.01	<10	<1
TC-06	0.09	<2	>15.00	<1	0.03	10	1.56	208	<.01	450	<20	1850	<.01	<10	1
TC-07	0.01	<2	>15.00	<1	<.01	<10	1.09	183	<.01	120	<20	606	<.01	<10	<1
TC-08	0.06	<2	12.51	<1	<.01	10	0.19	189	<.01	10	<20	409	<.01	<10	<1
TC-09	0.88	<2	10.57	<1	0.07	<10	2.72	755	<.01	190	<20	569	<.01	<10	2
TC-10	0.11	<2	>15.00	<1	0.02	20	0.54	226	<.01	190	<20	1913	<.01	<10	1
TC-11	0.08	<2	12.87	<1	<.01	<10	3.70	294	0.02	250	<20	968	<.01	<10	2
TC-12	0.04	<2	13.35	<1	<.01	10	2.71	251	0.01	200	<20	1081	<.01	<10	1

Appendix B

Analytical Procedures and Results

Soils

ANALYTICAL PROCEDURES

Geochemical Analysis

by Eco-Tech Laboratories Ltd. :

ELEMENT		LOWER DETECTION		UPPER LIMIT	EXTRACTION	METHOD
Au	Gold	5.00	ppb	1000.00	$HCl-HNO_3$	fire assay/atomic absorption
Al	Aluminum	0.01	%	15.00	$HCl-HNO_3$	ind. coupled plasma
Ag	Silver	0.20	ppm	30.00	$HCl-HNO_3$	ind. coupled plasma
As	Arsenic	5.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
B	Boron	2.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Ba	Barium	5.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Bi	Bismuth	5.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Ca	Calcium	0.01	%	15.00	$HCl-HNO_3$	ind. coupled plasma
Cd	Cadmium	1.00	ppm	1000.00	$HCl-HNO_3$	ind. coupled plasma
Co	Cobalt	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Cr	Chromium	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Cu	Copper	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Fe	Iron	0.01	%	15.00	$HCl-HNO_3$	ind. coupled plasma
K	Potassium	0.01	%	10.00	$HCl-HNO_3$	ind. coupled plasma
La	Lanthanum	10.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Mg	Magnesium	0.01	%	15.00	$HCl-HNO_3$	ind. coupled plasma
Mn	Manganese	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Mo	Molybdenum	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Na •	Sodium	0.01	%	10.00	$HCl-HNO_3$	ind. coupled plasma
Ni	Nickel	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
P *	Phosphorus	10.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Pb	Lead	2.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Sb	Antimony	5.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Sn	Tin	20.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Sr •	Strontium	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Ti *	Titanium	0.01	%	10.00	$HCl-HNO_3$	ind. coupled plasma
U	Uranium	10.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
V	Vanadium	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
W	Tungston	10.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Y	Yttrium	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma
Zn	Zinc	1.00	ppm	10000.00	$HCl-HNO_3$	ind. coupled plasma

• Please note: certain mineral forms of those elements above marked with an asterisk will not be soluble in the $HCl-HNO_3$ extraction. The ICP data will be low biased.

APPENDIX B

Date of Report: 14-Aug-92 Project 540 Albert River

Soil Sampling Results
1992

Reference: 92ETK-381

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Bi ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mo ppm	Ni ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
LLO 01	<5	<.2	<5	60	<5	19	19	25	3.43	3	26	14	5	<10	99
LLO 02	<5	<.2	<5	80	<5	16	12	19	3.16	2	22	24	<5	<10	75
LLO 03	<5	0.2	<5	100	<5	18	11	24	2.81	1	22	16	<5	10	68
LLO 04	<5	<.2	<5	65	<5	37	16	32	4.92	1	37	38	5	<10	108
LLO 05	<5	<.2	<5	65	<5	17	17	12	3.24	1	24	20	5	10	61
LLO 06	<5	<.2	<5	55	<5	17	11	13	3.40	2	22	18	<5	<10	64
LLO 07	<5	<.2	<5	50	<5	19	13	22	3.29	2	24	20	5	<10	68
LLO 08	<5	<.2	<5	55	<5	29	19	33	3.58	1	25	32	5	10	79
LLO 09	<5	<.2	<5	50	<5	17	10	17	2.97	1	20	20	<5	<10	59
LLO 10	<5	<.2	<5	70	<5	18	16	15	3.39	1	21	30	5	<10	67
LLO 11	<5	<.2	<5	45	<5	16	21	18	3.29	2	23	16	5	<10	70
LLO 12	<5	<.2	<5	50	<5	19	10	22	4.04	1	27	16	<5	40	74
LLO 13	<5	<.2	<5	70	<5	8	13	9	2.83	1	11	8	<5	<10	53
LLO 14	<5	<.2	<5	60	<5	11	10	7	4.08	2	11	24	<5	<10	51
LLO 15	<5	<.2	<5	65	<5	21	12	24	3.63	1	23	16	<5	10	76
LLO 16	<5	<.2	<5	30	<5	11	8	21	2.99	1	18	4	<5	<10	61
LLO 17	<5	<.2	<5	65	<5	11	13	12	3.07	1	15	10	<5	<10	61
LLO 18	<5	<.2	<5	75	<5	18	16	16	3.81	1	26	14	<5	20	64
LLO 19	<5	<.2	<5	45	<5	6	12	8	3.13	2	11	8	<5	<10	44
LLO 20	<5	<.2	<5	5	<5	9	18	13	4.55	<1	23	<2	<5	<10	73
LLO 21	<5	<.2	<5	<5	<5	13	22	15	5.28	<1	30	<2	<5	<10	83
LLO 22	<5	<.2	<5	25	<5	5	17	8	4.68	<1	12	2	<5	<10	50
LLO 23	<5	<.2	<5	10	<5	3	18	6	3.56	<1	12	<2	<5	<10	43
LLO 24	<5	<.2	<5	<5	<5	4	18	5	3.26	<1	16	<2	<5	<10	51
LLO 25	<5	<.2	<5	<5	<5	9	24	8	4.81	<1	25	<2	<5	<10	83
LLO 26	<5	<.2	<5	<5	<5	6	20	8	4.24	<1	20	<2	<5	<10	69
LLO 27	<5	<.2	<5	<5	<5	5	16	7	3.42	<1	19	<2	<5	<10	61
LLO 28	<5	<.2	<5	30	<5	7	9	9	3.88	<1	16	2	<5	<10	70
LLO 29	<5	<.2	<5	5	<5	3	14	8	2.30	<1	14	<2	<5	<10	46
LLO 30	<5	<.2	<5	25	<5	18	13	23	3.34	<1	22	16	<5	<10	92
MLO 31	<5	<.2	<5	50	<5	6	20	5	3.50	<1	14	6	<5	<10	59
MLO 32	<5	<.2	5	75	<5	11	9	13	3.11	<1	25	6	<5	<10	91
MLO 33	<5	<.2	<5	35	<5	13	12	15	3.71	1	27	6	5	<10	136
MLO 34	<5	<.2	<5	180	<5	14	17	14	4.09	2	23	14	5	<10	107
MLO 35	<5	<.2	<5	85	<5	12	18	18	4.34	2	28	6	5	<10	102
MLO 36	<5	<.2	5	55	<5	9	18	14	4.08	2	22	<2	10	<10	91
MLO 37	<5	<.2	<5	85	<5	10	18	12	4.14	1	19	2	<5	<10	86
MLO 38	<5	<.2	<5	20	<5	10	20	16	4.04	1	21	<2	5	<10	75
MLO 39	<5	<.2	<5	<5	<5	18	20	24	4.07	6	26	14	5	70	119
MLO 40	<5	<.2	<5	70	<5	7	17	8	4.72	2	16	6	<5	<10	66

APPENDIX B

Project 540

Soil Sampling Results (part 2)

Sample ID	Al %	B ppm	Ca %	Cd ppm	K %	La ppm	Mg %	Mn ppm	Na %	P ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	Y ppm
LLO 01	1.99	<2	0.74	<1	0.06	10	1.93	594	<.01	540	<20	25	<.01	<10	22	15
LLO 02	1.41	<2	1.66	1	0.04	20	0.94	471	<.01	440	<20	67	<.01	<10	14	30
LLO 03	1.23	4	2.10	<1	0.06	10	0.86	1803	<.01	980	<20	136	<.01	<10	8	15
LLO 04	1.76	2	1.66	<1	0.04	20	1.33	451	<.01	640	<20	118	<.01	<10	8	20
LLO 05	1.83	<2	0.87	<1	0.06	20	1.14	279	<.01	290	<20	65	<.01	<10	12	13
LLO 06	1.43	<2	0.98	<1	0.03	20	0.77	321	<.01	330	<20	82	<.01	<10	8	16
LLO 07	1.60	<2	1.07	<1	0.03	20	1.06	316	<.01	440	<20	77	<.01	<10	9	16
LLO 08	1.88	4	1.99	<1	0.07	20	1.57	678	<.01	780	<20	108	<.01	<10	11	25
LLO 09	1.40	<2	1.17	<1	0.04	20	0.78	709	<.01	360	<20	84	<.01	<10	9	16
LLO 10	1.87	<2	0.98	<1	0.05	30	1.16	316	<.01	290	<20	86	<.01	<10	12	16
LLO 11	2.32	<2	0.52	<1	0.05	40	2.10	445	<.01	340	<20	49	0.01	<10	19	15
LLO 12	1.30	<2	0.19	<1	0.02	20	0.54	220	<.01	290	<20	22	<.01	<10	8	14
LLO 13	1.89	<2	0.03	<1	0.02	20	0.56	98	<.01	270	<20	8	0.01	<10	24	3
LLO 14	1.41	<2	0.29	<1	0.02	30	0.34	195	<.01	360	<20	29	0.01	<10	17	5
LLO 15	1.68	<2	0.51	<1	0.05	30	1.06	611	<.01	590	<20	29	0.01	<10	13	15
LLO 16	0.95	<2	0.05	<1	0.04	20	0.38	51	<.01	250	<20	7	<.01	<10	17	1
LLO 17	1.97	<2	0.30	<1	0.04	20	0.67	85	<.01	210	<20	34	<.01	<10	19	4
LLO 18	2.70	<2	0.31	<1	0.05	30	0.94	162	<.01	390	<20	27	0.02	<10	19	15
LLO 19	1.69	<2	0.04	<1	0.01	10	0.51	39	<.01	270	<20	6	0.01	<10	18	1
LLO 20	1.77	<2	0.04	<1	<.01	10	1.03	64	<.01	250	<20	9	0.01	<10	19	<1
LLO 21	2.09	<2	0.02	<1	<.01	10	1.37	177	<.01	200	<20	8	<.01	<10	12	1
LLO 22	3.51	<2	0.03	<1	<.01	10	0.61	42	<.01	240	<20	10	0.05	<10	31	3
LLO 23	2.72	<2	0.02	<1	<.01	10	0.68	28	<.01	250	<20	8	0.02	<10	21	2
LLO 24	1.75	<2	0.01	<1	<.01	10	0.77	38	<.01	240	<20	8	<.01	<10	15	<1
LLO 25	2.10	<2	0.01	<1	<.01	10	1.15	105	<.01	210	<20	7	<.01	<10	14	<1
LLO 26	1.79	<2	0.02	<1	<.01	10	0.84	71	<.01	240	<20	8	<.01	<10	15	<1
LLO 27	1.65	<2	0.03	<1	<.01	10	0.71	41	<.01	190	<20	8	<.01	<10	15	<1
LLO 28	1.85	<2	0.06	<1	<.01	10	0.39	73	<.01	300	<20	12	0.01	<10	16	2
LLO 29	1.81	<2	0.04	<1	<.01	20	1.11	23	<.01	250	<20	13	<.01	<10	19	1
LLO 30	2.17	<2	0.47	<1	<.01	20	1.38	1107	<.01	750	<20	46	0.01	<10	14	28
MLO 31	3.69	<2	0.06	<1	0.03	10	1.09	93	<.01	180	<20	13	0.06	<10	44	6
MLO 32	1.85	<2	0.74	<1	0.06	20	0.50	757	<.01	630	<20	54	0.01	<10	23	16
MLO 33	1.92	<2	0.36	<1	0.02	20	1.07	241	<.01	510	<20	23	<.01	<10	17	10
MLO 34	2.90	<2	0.11	<1	0.06	20	1.24	460	<.01	410	<20	12	0.01	<10	36	4
MLO 35	2.83	<2	0.06	<1	0.07	20	1.52	137	<.01	370	<20	11	0.01	<10	27	3
MLO 36	2.30	<2	0.03	<1	0.04	20	1.67	91	<.01	210	<20	8	<.01	<10	31	1
MLO 37	2.17	<2	0.02	<1	0.05	20	1.59	155	<.01	280	<20	9	<.01	<10	31	<1
MLO 38	2.44	<2	0.05	<1	0.05	30	1.83	152	<.01	180	<20	10	<.01	<10	28	1
MLO 39	2.62	4	0.12	<1	0.03	30	2.02	666	<.01	480	<20	12	0.01	<10	28	18
MLO 40	2.66	2	0.03	<1	0.05	20	1.05	64	<.01	280	<20	10	0.02	<10	38	1

APPENDIX B

Date of Report: 14-Aug-92 Project 540 Albert River

Soil Sampling Results
1992

Reference: 92ETK-381

Sample ID	Au ppb	Ag ppm	As ppm	Ba ppm	Bi ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Mo ppm	Ni ppm	Pb ppm	Sb ppm	W ppm	Zn ppm
MLO 41	<5	0.2	<5	30	<5	3	13	8	2.64	<1	10	2	<5	<10	48
MLO 42	<5	<.2	<5	45	<5	11	18	8	3.82	2	19	8	5	<10	107
MLO 43	<5	<.2	<5	70	<5	17	17	21	3.54	1	22	8	5	<10	83
MLO 44	<5	<.2	<5	15	<5	10	15	17	3.36	<1	20	<2	5	<10	61
MLO 45	<5	<.2	<5	20	<5	20	18	24	4.08	1	25	8	5	<10	79
MLO 46	<5	<.2	<5	35	<5	18	15	20	3.59	<1	21	6	5	20	68
MLO 47	<5	<.2	<5	25	<5	12	15	17	3.28	<1	21	4	<5	<10	84
ULO 48	<5	<.2	<5	<5	<5	12	13	17	3.57	<1	19	<2	5	<10	60
ULO 49	<5	<.2	<5	5	<5	18	20	17	3.83	<1	24	<2	5	<10	68
ULO 50	<5	<.2	<5	35	<5	25	16	22	3.79	<1	25	4	5	<10	65
ULO 51	25	<.2	10	50	<5	17	17	20	4.81	2	29	8	10	<10	102
ULO 52	40	<.2	5	45	<5	15	14	18	4.24	2	25	12	5	<10	92
ULO 53	<5	<.2	<5	70	<5	18	15	16	4.08	<1	22	12	<5	<10	81
ULO 54	<5	0.4	<5	165	<5	27	19	13	3.88	<1	23	14	<5	<10	80
ULO 55	<5	<.2	<5	50	<5	12	20	16	4.13	2	23	2	5	<10	80
ULO 56	<5	<.2	<5	45	<5	18	19	19	4.26	1	27	8	5	<10	81
ULO 57	<5	<.2	<5	<5	<5	7	10	18	2.38	<1	15	<2	10	<10	41
RLO 58	<5	<.2	<5	5	<5	11	11	15	2.93	<1	15	10	<5	40	75
RLO 59	<5	<.2	<5	<5	<5	6	16	10	3.17	4	14	4	<5	40	55
RLO 60	<5	<.2	<5	70	<5	8	15	12	3.53	1	19	6	<5	<10	84
RLO 61	<5	<.2	5	<5	<5	11	13	17	3.49	<1	21	<2	<5	<10	57
RLO 62	<5	<.2	<5	<5	<5	9	26	9	4.51	<1	27	<2	<5	<10	82
RLO 63	<5	<.2	10	15	<5	5	6	9	3.47	<1	13	<2	<5	<10	49
RLO 64	<5	<.2	<5	65	<5	16	14	12	4.08	2	20	12	<5	<10	83
RLO 65	<5	<.2	10	55	<5	10	10	8	2.71	1	17	22	<5	30	51
RLO 66	<5	<.2	5	50	<5	11	9	12	2.68	1	21	18	<5	10	81
RLO 67	<5	<.2	<5	50	<5	7	4	14	1.78	1	11	14	<5	30	91
RLO 68	<5	0.2	5	125	<5	11	8	14	2.21	1	12	16	<5	<10	90
ERLO 69	<5	<.2	10	60	<5	11	12	10	3.04	1	20	14	<5	<10	74
ERLO 70	<5	<.2	5	85	5	7	17	9	3.40	1	16	10	<5	<10	67
ERLO 71	<5	<.2	10	85	<5	10	17	13	4.28	1	17	18	<5	<10	60
ERLO 72	<5	<.2	10	55	<5	8	22	7	3.95	1	19	10	5	<10	63
ERLO 73	<5	<.2	20	105	5	12	15	11	5.37	2	19	30	<5	<10	69
ERLO 74	<5	<.2	10	80	<5	17	20	26	4.08	2	24	18	5	<10	71
ERLO 75	<5	<.2	10	100	<5	11	21	10	3.35	1	22	12	5	<10	64
ERLO 76	<5	<.2	15	65	<5	11	19	13	4.68	1	22	14	<5	<10	66
ERLO 77	<5	<.2	10	45	5	6	15	10	2.90	4	15	14	<5	70	53
ERLO 78	<5	<.2	10	65	<5	27	17	18	3.88	2	25	34	5	30	60
ERLO 79	<5	<.2	10	140	<5	15	17	13	3.54	5	23	28	5	70	104
ERLO 80	<5	<.2	<5	105	<5	11	15	10	2.90	1	18	16	<5	<10	98

APPENDIX B

Project 540

Soil Sampling Results (part 2)

Sample ID	Al %	B ppm	Ca %	Cd ppm	K %	La ppm	Mg %	Mn ppm	Na %	P ppm	Sn ppm	Sr ppm	Ti %	U ppm	V ppm	Y ppm
MLO 41	2.90	<2	0.02	<1	0.01	10	0.76	46	<.01	320	<20	8	0.02	<10	27	3
MLO 42	2.51	<2	0.35	<1	0.04	20	1.43	336	<.01	190	<20	19	0.01	<10	42	2
MLO 43	2.43	<2	0.67	<1	0.04	30	1.51	1617	<.01	260	<20	28	<.01	<10	26	16
MLO 44	1.88	<2	0.07	<1	0.02	20	1.72	227	<.01	330	<20	10	<.01	<10	15	2
MLO 45	2.34	<2	0.35	<1	0.04	30	1.82	390	<.01	330	<20	23	<.01	<10	16	14
MLO 46	2.46	<2	0.71	<1	0.02	30	1.61	580	<.01	420	<20	29	0.01	<10	14	23
MLO 47	2.29	<2	0.07	<1	0.03	30	1.54	215	<.01	240	<20	10	<.01	<10	21	8
ULO 48	1.89	<2	0.36	<1	<.01	30	2.13	378	<.01	290	<20	17	<.01	<10	6	27
ULO 49	2.33	<2	0.35	<1	0.02	30	2.30	893	<.01	390	<20	19	<.01	<10	10	18
ULO 50	2.36	<2	0.77	<1	0.02	30	1.68	636	<.01	440	<20	28	0.01	<10	13	26
ULO 51	2.70	<2	0.12	<1	0.03	20	1.63	289	<.01	260	<20	15	0.01	<10	21	6
ULO 52	2.50	<2	0.40	<1	0.03	20	1.19	487	<.01	420	<20	22	0.02	<10	20	10
ULO 53	3.54	<2	0.13	<1	0.02	20	1.12	272	<.01	270	<20	14	0.04	<10	22	9
ULO 54	2.48	<2	0.37	<1	0.06	20	1.53	4467	<.01	250	<20	21	0.01	<10	21	10
ULO 55	2.37	<2	0.04	<1	0.05	20	1.65	369	<.01	250	<20	10	0.01	<10	25	1
ULO 56	2.57	<2	0.10	<1	0.05	20	1.84	408	<.01	250	<20	12	0.01	<10	20	6
ULO 57	1.63	2	13.72	<1	0.01	10	2.04	269	<.01	200	<20	425	<.01	<10	7	7
RLO 58	1.83	<2	0.28	<1	0.04	20	1.39	278	<.01	360	<20	20	0.01	<10	13	15
RLO 59	1.96	2	0.03	<1	0.01	20	0.85	56	<.01	250	<20	11	0.01	<10	34	1
RLO 60	2.69	<2	0.05	<1	0.02	20	0.96	85	<.01	270	<20	9	0.01	<10	28	3
RLO 61	1.56	<2	0.06	<1	0.01	20	0.92	69	<.01	120	<20	10	<.01	<10	16	1
RLO 62	2.31	<2	0.02	<1	<.01	10	1.40	50	<.01	140	<20	7	<.01	<10	12	<1
RLO 63	1.05	<2	0.09	<1	<.01	10	0.26	43	<.01	230	<20	12	<.01	<10	11	<1
RLO 64	1.96	<2	0.34	<1	<.01	20	1.22	225	<.01	340	<20	30	<.01	<10	21	7
RLO 65	1.05	2	0.80	<1	0.02	10	0.55	285	<.01	330	<20	60	<.01	<10	11	11
RLO 66	1.19	<2	0.81	<1	0.03	20	0.62	272	<.01	360	<20	60	0.01	<10	13	16
RLO 67	0.86	2	2.46	<1	<.01	10	0.29	896	<.01	570	<20	155	0.01	<10	8	15
RLO 68	1.04	2	0.62	<1	0.04	10	0.44	1046	<.01	940	<20	42	0.01	<10	16	5
ERLO 69	1.47	<2	0.08	<1	0.03	20	0.70	280	<.01	280	<20	8	<.01	<10	15	2
ERLO 70	1.87	<2	0.12	<1	0.03	20	0.81	193	<.01	440	<20	7	0.01	<10	23	<1
ERLO 71	3.04	<2	0.06	<1	0.02	20	0.65	128	<.01	460	<20	5	0.02	<10	21	3
ERLO 72	2.05	<2	0.02	<1	0.01	10	1.03	58	<.01	190	<20	2	0.01	<10	21	<1
ERLO 73	2.07	<2	0.06	<1	0.02	20	0.49	95	<.01	280	<20	7	0.01	<10	23	<1
ERLO 74	2.41	<2	0.35	<1	0.03	30	1.73	110	<.01	340	<20	23	<.01	<10	19	6
ERLO 75	2.32	2	0.22	<1	0.06	20	1.46	77	<.01	210	<20	25	0.01	<10	26	1
ERLO 76	2.02	<2	0.12	<1	0.02	20	0.85	58	<.01	200	<20	13	0.01	<10	19	<1
ERLO 77	1.67	2	0.03	<1	0.01	10	0.59	58	<.01	250	<20	4	0.01	<10	20	1
ERLO 78	2.27	2	0.66	<1	0.02	30	1.24	210	<.01	340	<20	62	0.02	<10	18	9
ERLO 79	2.28	4	0.14	<1	0.07	20	1.07	348	<.01	510	<20	15	0.02	<10	27	6
ERLO 80	2.71	<2	0.48	<1	0.04	20	0.74	260	<.01	250	<20	22	0.02	<10	47	10

Appendix C

Analytical Procedures and Results

Heavy Minerals in Rocks

APPENDIX C

The following is a summary of the sample preparation process for rock samples XA01 to XA22, as carried out by C.F. Mineral Research Ltd. of Kelowna.

1. Crush and pulverize to -20 mesh

2. Acid digestion (10% HCl) and neutralization

3. Soaping, spraying down and settling followed by careful decanting

4. weigh samples

5. wet sieve sample

6. collect three size fractions

   -20 + 35 mesh (up to 2 kg)
   -35 + 60 mesh (up to 2 kg)
   -60 mesh

7. dry and sieve fractions to -18 mesh

8. extract heavy minerals by using heavy liquids, tetrabromoethene first, followed by methylene iodide ("heavy" or "H" fraction).

9. magnetically separate fractions to produce 6 fractions

   -20+60 HM (magnetic), HP (paramagnetic), HN non-magnetic
   -60 HM, HP, HN

10. weigh fractions to .02g

11. ensure at least 0.1g in -20+60 HN and -60HN fractions (in some cases -20 HN or even a -20 HN/HP was needed).

12. vial -20 + 60HN and -60HN fractions for analysis by neutron activation

ANALYTICAL PROCEDURES

Geochemical Analysis

by Activation Laboratories :

ELEMENT		LOWER DETECTION LIMIT		EXTRACTION	METHOD
Au	Gold	5.0	ppb		INAA
Ag	Silver	5.0	ppm		INAA
As	Arsenic	2.0	ppm		INAA
Ba	Barium	200.0	ppm		INAA
Br	Bromine	5.0	ppm		INAA
Ca	Calcium	1.0	%		INAA
Ce	Cerium	3.0	ppm		INAA
Co	Cobalt	5.0	ppm		INAA
Cr	Chromium	10.0	ppm		INAA
Cs	Cesium	2.0	ppm		INAA
Eu	Europium	0.2	ppm		INAA
Fe	Iron	0.02	%		INAA
Hf	Hafnium	1.0	ppm		INAA
Hg	Mecury	5.0	ppm		INAA
Ir	Iridium	40.0	ppb		INAA
La	Lanthanum	1.0	ppm		INAA
Lu	Lutetium	0.1	ppm		INAA
Mo	Molybdenum	20.0	ppm		INAA
Na	Sodium	500.0	ppm		INAA
Nd	Neodymium	10.0	ppm		INAA
Ni	Nickel	200.0	ppm		INAA
Rb	Rubidium	50.0	ppm		INAA
Sb	Antimony	0.2	ppm		INAA
Sc	Scandium	0.1	ppm		INAA
Se	Selenium	20.0	ppm		INAA
Sm	Samarium	0.1	ppm		INAA
Sr	Strontium	0.2	%		INAA
Ta	Tantalum	1.0	ppm		INAA
Tb	Terbium	2.0	ppm		INAA
Th	Thorium	0.5	ppm		INAA
U	Uranium	0.5	ppm		INAA
W	Tungsten	4.0	ppm		INAA
Yb	Yttebium	0.2	ppm		INAA
Zn	Zinc	200.0	ppm		INAA

APPENDIX C

Date of Report: 6-Oct-92 Project 540 Albert River Properties

Rock Samples
Heavy Mineral Fractions Weight Chart
1992

Reference: CFM92-175

Sample ID	Original Sample Wt kg	-20+60HM g	-20+60HP g	-20+60HN g	-60HM g	-60HP g	-60HN g
XA-01	8.5	0.09	0.08	0.18	0.10	0.11	0.17
XA-02	6.0	0.06	0.13	1.41	0.06	0.21	2.31
XA-03	7.8	0.12	0.13	0.17	0.09	0.10	0.24
XA-04	2.0	0.07	0.10	0.07	0.09	0.17	0.37
XA-05	7.5	0.05	0.39	4.59	0.05	0.39	5.99
XA-06	7.2	0.05	0.08	0.36	0.09	0.15	1.79
XA-07	7.7	0.05	0.42	7.53	0.06	0.16	3.57
XA-08	6.6	0.09	0.44	16.74	0.10	0.34	18.89
XA-09	7.6	0.08	0.07	0.21	0.06	0.09	0.82
XA-10	6.9	0.02	0.18	4.70	0.06	0.10	5.25
XA-11	2.1	0.07	0.17	0.13	0.10	0.16	0.12
XA-12	2.7	0.06	0.08	0.53	0.08	0.08	0.30
XA-13	3.5	0.08	0.06	0.33	0.04	0.04	0.20
XA-14	3.6	0.03	0.05	0.01	0.09	0.05	0.03
XA-15	2.6	0.05	0.03	0.20	0.06	0.06	0.19
XA-16	2.1	0.04	0.06	0.02	0.05	0.08	0.02
XA-17	2.2	0.07	0.04	0.50	0.03	0.02	0.29
XA-18	2.7	0.01	0.06	0.06	0.07	0.08	0.11
XA-19	2.6	0.05	0.11	1.36	0.08	0.10	0.45
XA-20	3.2	0.03	0.07	0.05	0.04	0.07	0.04
XA-21	2.7	0.03	0.05	0.02	0.04	0.03	0.04
XA-22	2.6	0.04	0.03	0.02	0.07	0.05	0.07

APPENDIX C

Date of Report: 6-Oct-92 Project 540 Albert River

Rock Sampling Results - Heavy Mineral Fractions
1992
(Method of Analysis = INAA)

Reference: ALL-4480

Sample ID	Fraction	Wt g	Au ppb	Ag ppm	As ppm	Ba ppm	Br ppm	Ca %	Co ppm	Cr ppm	Cs ppm	Fe %	Hf ppm	Hg ppm	Ir ppb
XA-01	-20+60HN	0.19	<7	<6	230	<200	21	<4	1600	<10	<2	59.0	<1	<5	<50
XA-01	-60HN	0.17	6990	<6	200	<250	44	<5	2500	64	9	54.1	20	<5	<50
XA-02	-20+60HN	1.41	<5	<5	33	500	80	<1	160	<10	<2	55.3	<1	<5	<50
XA-02	-60HN	2.32	<15	<8	51	1200	160	<7	180	<10	<2	63.2	9	12	<40
XA-03	-20+60HN	0.18	27	<5	260	<200	93	<4	340	28	<2	54.6	<1	<5	<50
XA-03	-60HN	0.24	71	<5	150	<200	65	<1	320	24	<2	42.8	37	<5	<50
XA-04	-20+60HP/HN	0.09	<9	<6	54	<200	150	<5	190	2100	<2	55.0	<1	<5	<50
XA-04	-60HN	0.37	87	<5	32	<200	83	<3	44	46	<2	58.9	34	<5	<50
XA-05	-20+60HN	4.59	<8	<5	35	<200	92	<4	120	23	<2	43.2	<1	<5	<40
XA-05	-60HN	5.98	<8	<5	40	1000	190	<4	170	40	<2	46.2	3	<5	<40
XA-06	-20+60HN	0.36	24	<5	130	1400	64	<3	170	<10	<2	60.7	<1	<5	<50
XA-06	-60HN	1.78	<5	<5	74	840	57	<1	88	<10	<2	51.0	17	<5	<50
XA-07	-20+60HN	7.52	<6	<5	55	2500	90	<4	120	23	<2	52.5	<1	<5	<40
XA-07	-60HN	3.56	<11	<6	71	9300	150	<5	160	<10	<2	56.3	10	<5	<40
XA-08	-20+60HN	16.71	<6	<5	42	850	150	<4	55	<10	<2	48.6	<1	<5	<50
XA-08	-60HN	18.86	10	<5	55	<200	200	<4	45	33	<2	52.6	5	<5	<50
XA-09	-20+60HN	0.21	46	<5	78	<200	66	<4	160	33	<2	59.1	3	<5	<50
XA-09	-60HN	0.82	<5	<5	96	<200	110	<2	250	26	<2	53.5	30	<5	<50
XA-10	-20+60HN	4.69	<8	<5	42	<200	16	<4	88	<10	<2	47.7	<1	<5	<40
XA-10	-60HN	5.22	<8	<5	40	<200	12	<4	100	<10	<2	50.7	<1	9	<40
XA-11	-20+60HN	0.12	<9	<6	88	<210	250	<6	160	55	<2	54.2	<1	9	<50
XA-11	-60HN	0.12	<12	<8	180	1300	230	<6	880	12	<2	57.3	95	<5	<50
XA-12	-20+60HN	0.52	<5	<5	130	<200	62	<2	130	<10	<2	62.2	2	<5	<50
XA-12	-60HN	0.31	71	<5	140	<200	100	<3	210	<10	<2	61.7	10	<5	<50
XA-13	-20+60HN	0.33	<5	<5	50	<200	22	<3	120	<10	<2	65.5	<1	<5	<50
XA-13	-60HN	0.21	<10	<7	78	<230	47	<5	240	20	<2	55.8	10	<5	<50
XA-14	-20 HP/HN	0.06	<21	<14	32	<490	230	<8	250	1500	<4	40.1	110	<7	120
XA-15	-20+60HN	0.20	<6	<5	150	<200	47	<4	100	<10	<2	62.9	<1	<5	<50
XA-15	-60HN	0.19	<8	<6	99	<200	54	<5	110	<10	8	64.8	8	<5	<50
XA-16	-20 HP/HN	0.04	<27	<17	130	<630	350	<11	450	8200	<5	57.0	20	<9	<50
XA-17	-20+60HN	0.50	15	<5	20	470	15	<3	130	<10	2	65.0	<1	<5	<50
XA-17	-60HN	0.29	<5	<5	29	380	24	<3	190	22	<2	63.3	5	<5	<50
XA-18	-20+60HP/HN	0.06	121	<7	83	<330	150	<7	320	12000	<3	55.1	<2	<5	<50
XA-18	-60HN	0.11	<12	<8	110	<290	52	<6	280	<10	<2	60.4	48	10	<50
XA-19	-20+60HN	1.35	<5	<5	16	<200	30	<1	69	12	<2	56.2	<1	<5	<50
XA-19	-60HN	0.45	<5	<5	23	<200	51	<3	120	<10	<2	61.6	14	<5	<50
XA-20	-20 HP/HN	0.15	54	<7	150	<230	730	<4	470	4600	<2	55.0	17	<5	<50
XA-21	-20 HP/HN	0.08	<27	<18	71	3600	480	<10	560	1700	<5	45.7	180	<9	<50
XA-22	-20 HP/HN	0.12	66	<8	110	<280	250	<5	860	4900	<2	35.6	51	<5	<50

APPENDIX C

Project 540

Rock Sampling Results - Heavy Mineral Fractions (part 2)

Sample ID	Fraction	Mo ppm	Na ppm	Ni ppm	Rb ppm	Sb ppm	Sc ppm	Se ppm	Sr %	Ta ppm	Th ppm	U ppm	W ppm	Zn ppm
XA-01	-20+60HN	<20	<500	<200	<50	0.4	1.4	<20	<0.2	<2	<0.6	<0.9	<4	<200
XA-01	-60HN	<20	1030	<260	<53	<0.3	2.6	<20	<0.2	<3	53.0	<1.4	43	<200
XA-02	-20+60HN	<20	<500	<200	<50	1.8	0.4	58	<0.2	<1	<0.5	<0.5	<4	<200
XA-02	-60HN	<20	1570	1300	<50	12.0	4.4	100	<0.2	<1	12.0	<1.4	<4	330
XA-03	-20+60HN	<20	1940	<200	<50	8.3	1.4	44	<0.2	<1	1.8	<0.7	<4	11000
XA-03	-60HN	23	3300	<200	<50	4.6	1.9	37	<0.2	<1	32.0	7.1	<4	21000
XA-04	-20+60HP/HN	51	1100	<210	<50	9.5	13.0	81	<0.2	<1	<0.7	<1.1	13	230
XA-04	-60HN	33	746	<200	<50	3.4	4.5	<20	<0.2	<1	39.0	6.3	11	<200
XA-05	-20+60HN	<20	557	<200	<50	6.5	1.4	<20	<0.2	<1	<0.5	<0.8	<4	<200
XA-05	-60HN	<20	1420	<200	<50	4.7	1.9	<20	<0.2	4	<0.5	<0.7	<4	<200
XA-06	-20+60HN	23	670	<200	<50	18.0	0.8	60	<0.2	<1	2.4	<0.5	<4	<200
XA-06	-60HN	<20	<500	<200	<50	10.0	1.1	80	<0.2	2	15.0	4.7	<4	260
XA-07	-20+60HN	<20	<500	<200	<50	<0.2	0.8	54	<0.2	<1	<0.5	<0.6	<4	<200
XA-07	-60HN	31	599	1100	<50	2.2	2.2	43	<0.2	<1	8.1	<1.1	<4	260
XA-08	-20+60HN	<20	<500	<200	<50	1.9	0.8	53	<0.2	<1	<0.5	<0.8	<4	<200
XA-08	-60HN	<20	2190	<200	<50	1.5	1.9	46	<0.2	<1	2.7	<0.8	<4	<200
XA-09	-20+60HN	<20	985	<200	<50	6.7	1.3	50	<0.2	<1	<0.5	<0.6	<4	<200
XA-09	-60HN	26	971	<200	<50	6.6	2.0	41	<0.2	1	23.0	2.7	<4	<200
XA-10	-20+60HN	<20	<500	<200	<50	6.2	1.2	44	<0.2	<1	<0.5	<0.7	<4	<200
XA-10	-60HN	<20	577	<200	<50	7.1	1.3	40	<0.2	<1	3.7	<0.8	<4	<200
XA-11	-20+60HN	<20	1090	<210	<50	25.0	3.2	150	<0.2	<1	<0.6	<1.1	<4	530
XA-11	-60HN	51	2860	<260	<53	33.0	7.4	77	<0.2	5	78.0	16.0	25	1600
XA-12	-20+60HN	<20	<500	<200	<50	23.0	0.9	120	<0.2	<1	<0.5	<0.5	<4	480
XA-12	-60HN	29	1130	<200	110	23.0	1.9	120	<0.2	<1	13.0	<0.6	<4	3200
XA-13	-20+60HN	<20	<500	640	<50	12.0	1.1	70	<0.2	2	6.4	<0.6	<4	<200
XA-13	-60HN	<20	3830	<220	<50	18.0	2.5	40	<0.2	<2	55.0	<1.2	<4	<200
XA-14	-20 HP/HN	240	2970	<440	<75	13.0	62.0	<20	<0.2	44	220.0	34.0	<8	14000
XA-15	-20+60HN	56	1320	690	<50	15.0	1.0	<20	<0.2	<1	6.3	<0.7	9	<200
XA-15	-60HN	<20	2690	<200	<50	11.0	1.9	<20	<0.2	<2	28.0	<1.0	<4	210
XA-16	-20 HP/HN	610	2830	5400	<110	31.0	14.0	67	<0.3	<5	34.0	17.0	<9	1000
XA-17	-20+60HN	<20	<500	<200	<50	1.6	0.5	26	<0.2	<1	<0.5	<0.5	<4	<200
XA-17	-60HN	72	1250	<200	<50	12.0	1.4	<20	<0.2	<1	5.9	<0.6	<4	220
XA-18	-20+60HP/HN	980	1750	3700	<54	15.0	7.1	76	<0.2	<2	1.1	<1.8	<5	66000
XA-18	-60HN	58	1450	<290	<51	9.7	4.6	210	<0.2	<2	64.0	14.0	<4	31000
XA-19	-20+60HN	<20	<500	<200	<50	1.3	0.4	38	<0.2	<1	<0.5	<0.5	<4	<200
XA-19	-60HN	22	1010	<200	<50	2.8	1.4	30	<0.2	<1	14.0	<0.5	15	<200
XA-20	-20 HP/HN	250	1610	1700	<50	28.0	16.0	<20	<0.2	<2	33.0	<1.2	<4	13000
XA-21	-20 HP/HN	44	6120	<560	<110	15.0	23.0	<22	<0.2	<6	180.0	34.0	<10	32000
XA-22	-20 HP/HN	310	2360	<260	<50	8.5	27.0	<20	<0.2	<2	120.0	17.0	<4	1300

APPENDIX C

Project 540

Rock Sampling Results - Heavy Mineral Fractions (part 3)

Sample ID	Fraction	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm
XA-01	-20+60HN	302	418	104	8.9	<0.2	<2	<0.2	<0.1
XA-01	-60HN	985	1500	456	50.0	6.9	<2	2.4	<0.1
XA-02	-20+60HN	1	<3	<10	0.3	<0.2	<2	<0.2	<0.1
XA-02	-60HN	56	110	<16	4.2	<0.3	<2	<0.4	<0.1
XA-03	-20+60HN	2	<3	<10	0.2	<0.2	<2	<0.2	<0.1
XA-03	-60HN	133	291	91	13.0	1.7	<2	2.0	0.4
XA-04	-20+60HP/HN	11	55	<11	4.5	<0.3	<2	3.5	0.5
XA-04	-60HN	97	207	75	14.0	1.7	<2	2.5	0.6
XA-05	-20+60HN	2	<4	<10	0.2	<0.2	<2	<0.2	<0.1
XA-05	-60HN	18	25	<10	1.3	<0.2	<2	<0.2	<0.1
XA-06	-20+60HN	3	<3	<10	0.6	<0.2	<2	<0.2	<0.1
XA-06	-60HN	96	146	42	5.9	1.3	<2	1.1	0.2
XA-07	-20+60HN	2	<3	<10	0.2	<0.2	<2	<0.2	<0.1
XA-07	-60HN	78	140	<11	4.4	<0.2	<2	<0.3	0.5
XA-08	-20+60HN	3	<3	<10	0.4	<0.2	<2	<0.2	<0.1
XA-08	-60HN	14	<3	<10	1.2	<0.2	<2	<0.2	<0.1
XA-09	-20+60HN	6	<3	<10	0.6	<0.2	<2	<0.2	<0.1
XA-09	-60HN	220	383	98	11.0	1.8	<2	1.4	0.4
XA-10	-20+60HN	5	<3	<10	0.3	<0.2	<2	<0.2	<0.1
XA-10	-60HN	66	120	<10	4.1	<0.2	<2	<0.2	<0.1
XA-11	-20+60HN	2	<5	<10	0.3	<0.3	<2	<0.3	<0.1
XA-11	-60HN	471	782	174	36.0	5.7	<2	5.6	1.0
XA-12	-20+60HN	3	<3	<10	0.5	0.3	<2	<0.2	<0.1
XA-12	-60HN	87	162	<10	6.6	<0.2	<2	1.1	<0.1
XA-13	-20+60HN	228	504	134	13.0	3.6	<2	<0.2	<0.1
XA-13	-60HN	1170	1980	576	63.0	8.6	<2	<0.3	0.3
XA-14	-20 HP/HN	798	1580	424	97.0	21.3	42	89.6	10.9
XA-15	-20+60HN	115	189	<10	5.8	0.7	<2	<0.2	<0.1
XA-15	-60HN	484	788	226	27.0	4.3	<2	1.6	<0.1
XA-16	-20 HP/HN	822	1360	344	37.0	<0.8	<2	<0.9	<0.2
XA-17	-20+60HN	2	<3	<10	0.1	<0.2	<2	<0.2	<0.1
XA-17	-60HN	161	282	80	10.0	1.5	<2	<0.2	<0.1
XA-18	-20+60HP/HN	4	<9	<18	1.2	<0.4	<2	<0.5	<0.1
XA-18	-60HN	652	1210	358	42.0	<0.3	4	4.2	<0.1
XA-19	-20+60HN	5	9	<10	0.6	<0.2	<2	<0.2	<0.1
XA-19	-60HN	294	553	160	16.0	2.4	<2	1.1	0.2
XA-20	-20 HP/HN	169	374	92	20.0	3.1	6	12.9	1.8
XA-21	-20 HP/HN	3720	5820	1300	180.0	31.3	39	75.2	9.3
XA-22	-20 HP/HN	626	1110	402	60.0	7.5	10	8.9	1.5

LEGEND

	PRE 1992
AR-01 ⬡	HEAVY MINERAL SAMPLE
XA01 ▫	CONTINUOUS ROCK CHIP SAMPLE
X WP-01-01	ROCK SAMPLE 1992
TC-01 X	ROCK SAMPLE
56 ○	SOIL SAMPLE
UL	INDICATES UPPER LINE (SOILS)
ML	MIDDLE LINE
LL	LOWER LINE
ERL	EAST RIDGE LINE
RL	RIDGE LINE
≈≈	SHEAR ZONE

DWG-540-004
DRAWN: JULY 15/1992
REVISED: AUGUST 28/1992

METRES
0 100 200 300
SCALE 1:5000

TOPOGRAPHIC CONTOUR INTERVAL =100 Ft

DISCOVERY Consultants

DIA MET MINERALS LTD.

ALBERT RIVER PROPERTY

SAMPLE LOCATION MAP

DATE:	JULY 14/1992	SCALE:	1:5000
PROJECT:	540	NTS:	82-J/12E
FIGURE:	3	GOLDEN MINING DIVISION	

RACHEL 213400
BARBI 213172
ASH

22,674
GEOLOGICAL BRANCH
ASSESSMENT REPORT

LEGEND

PRE 1992

⬡	Heavy mineral (stream sediment) sample
5840	Values shown in parts per billion Gold from the -60HN fraction
□	Continuous rock chip sample
6999	Values shown in ppb Au from heavy mineral fractions as described in APPENDIX C (sample prep/analysis 1992)
–	Indicates <15 ppb Au
⊗	Rock sample
9	Values shown in ppb Au

1992

X	Rock sample
o	Soil sample
40	Values shown in ppb Au
–	Indicates <5 ppb Au

GEOLOGICAL BRANCH
ASSESSMENT REPORT

22,541

DWG - 540 - 005
DRAWN: JULY 15/1992
REVISED:
OCT. 7/1992

METRES
0 100 200 300
SCALE 1:5000
TOPOGRAPHIC CONTOUR INTERVAL =100 Ft.

DISCOVERY Consultants

DIA MET MINERALS LTD.

ALBERT RIVER PROPERTY

GOLD VALUES

DATE:	OCT. 8/1992	SCALE:	1:5000
PROJECT:	540	NTS:	82-J/12E
FIGURE:	4		GOLDEN MINING DIVISION

RACHEL 213400

BARBI 213173

213172 ASH

7640
3070
5840
>10,000
>10,000
8723

97E 98E 99E 600,000E-UTM 01E

13N 12N 11N 10N 09N 08N