Phelps Dodge Corporation of Canada, Limited

SOIL GEOCHEMICAL REPORT

ON THE

DONNA 1 TO 17 CLAIMS

VERNON MINING DIVISION

by

R. S. Cameron, B.Sc.
Phelps Dodge Corporation of Canada, Limited
1409 - 409 Granville Street
Vancouver, B.C. V6C 1T8

NTS 82L1W
50°08'N 118°24'W

September 28, 1992

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INTRODUCTION

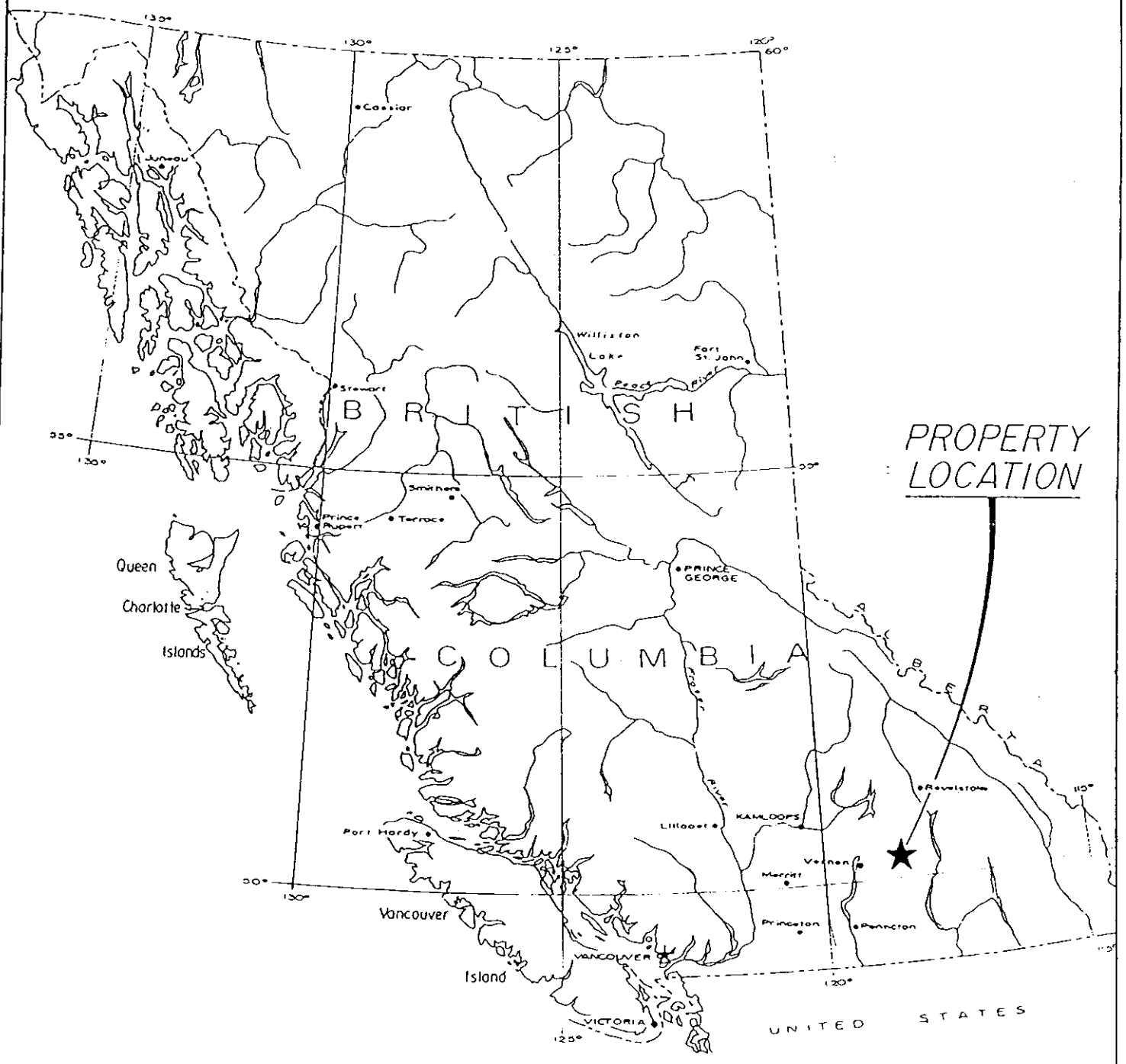
This report presents the results of a soil geochemical survey completed on the Donna 1 to 17 claims in the Vernon Mining Division between July 1 and July 15, 1992. Work included collection of 112 "B" horizon soil samples along seven kilometres of grid lines.

LOCATION AND ACCESS

The Donna claims are located in the Vernon Mining Division of southern British Columbia approximately 63 kilometres southeast of Vernon. The claims lie near the headwaters of the Kettle River on Monashee Mountain three kilometres northwest of Keefer Lake and two kilometres southeast of Yeoward Mountain (Figures 1 and 2).

The property is readily accessible from B.C. Highway #6 at a point approximately 85 kilometres east of Vernon. Here the Keefer Lake Forest Access Road originates and is followed northeasterly for nine kilometres to a bridge crossing on the Kettle River. Immediately north of the bridge, a four-wheel drive road branches off and leads one kilometre into the claims.

The claims lie on the eastern end of Monashee Mountain, which is characterized by moderate slopes leading up to a rounded, somewhat flat summit. Elevations range from 1,340 metres to 1,650 metres. The central part of the property is located within an old burn, which is now covered by thick brush and thick second growth fir. Elsewhere, commercial size fir, hemlock, pine and spruce are common.



SCALE
Km. 100 50 0 100 200 300 400 Km

DONNA PROPERTY

LOCATION MAP

LUMBY AREA, B.C.

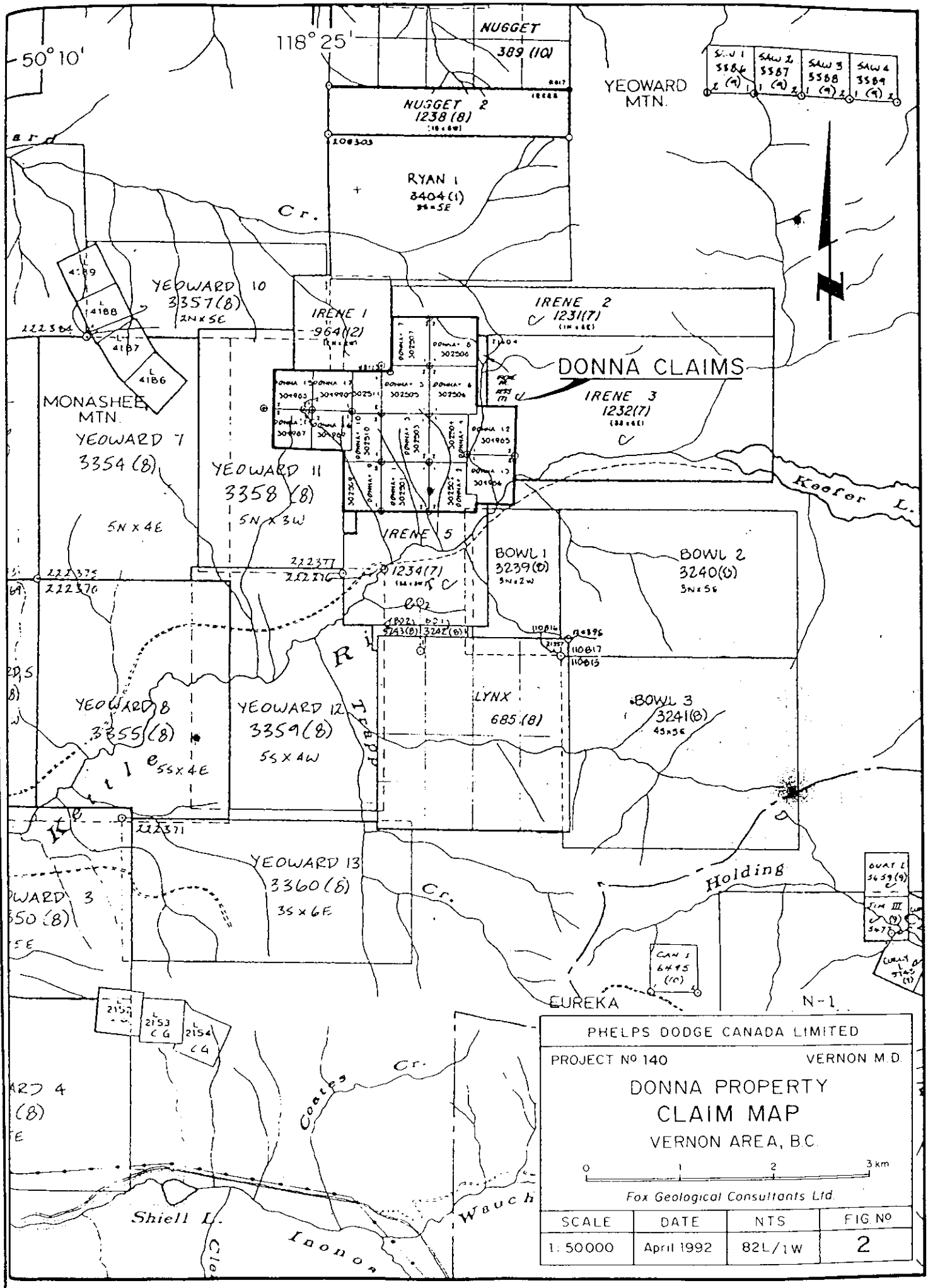
NTS 82LIW VERNON M.D.

SCALE : AS SHOWN

CLAIMS

The Donna 1 to 17 claims are situated in the Vernon Mining Division and are owned by Phelps Dodge Corporation of Canada, Limited. Claim data are summarized below and expiry dates assume work described herein is applied to the claims.

Claim Name	No. of Units	Record Numbers	Expiry Date
Donna 1	1	302501	July 28, 1993
Donna 2	1	302502	July 28, 1993
Donna 3	1	302503	July 28, 1993
Donna 4	1	302504	July 28, 1993
Donna 5	1	302505	July 28, 1993
Donna 6	1	302506	July 28, 1993
Donna 7	1	302507	July 28, 1993
Donna 8	1	302508	July 28, 1993
Donna 9	1	302509	July 28, 1993
Donna 10	1	302510	July 28, 1993
Donna 11	1	302511	July 28, 1993
Donna 12	1	304985	Sept. 29, 1993
Donna 13	1	304986	Sept. 29, 1993
Donna 14	1	304987	Sept. 29, 1993
Donna 15	1	304988	Sept. 29, 1993
Donna 16	1	304989	Sept. 29, 1993
Donna 17	1	304990	Sept. 29, 1993



PHELPS DODGE CANADA LIMITED

PROJECT Nº 140 — VERNON M.D.

DONNA PROPERTY
CLAIM MAP
VERNON AREA, B.C.

0 1 2 3 km

Fox Geological Consultants Ltd.

SCALE	DATE	NTS	FIG. Nº
1: 50000	April 1992	82L/1W	2

PREVIOUS WORK

The general area east of Vernon has a placer mining history dating from the 1870's to the present. Limited production came from a number of streams. Gold was obtained from Cherry and Monashee Creeks 14 kilometres and seven kilometres respectively to the northwest, Barnes Creek ten kilometres to the southeast and Marsh Creek five kilometres to the southwest.

Veins mineralized with pyrite, chalcopyrite, galena and sphalerite with significant values in gold and silver were explored on the St. Paul Group, located on Monashee Mountain five kilometres to the west. Intermittent mining from this property produced a small tonnage of both direct shipping and milling ores. The last production was in the mid 1970's.

The Donna property was staked as a result of prospecting and stream sediment sampling conducted in 1973 by El Paso Mining and Milling Company. A sediment sample taken from one tributary stream in the upper Kettle River area returned anomalous values in gold and arsenic. Follow-up prospecting confirmed the stream anomaly as well as locating quartz float containing coarse pyrite and arsenopyrite that assayed 0.50 oz/ton gold and 200 oz/ton silver. As a result, the property was staked and a soil sampling survey conducted. Results from this survey defined a large area some 250 metres by 800 metres anomalous in gold, silver, arsenic and lead. This work was followed by a backhoe trenching program in 1974 together with geological mapping, rock sampling and airtrack percussion drilling program drilling nineteen 2" diameter holes. In 1975, El Paso ceased exploring in British Columbia.

In 1980, the property was optioned to Salamet Resources Corp. who later transferred them to Granex Resources Ltd. who in turn transferred them to Keefer Resources Ltd. The latter company, in part financed by Mohawk Oil Ltd., conducted intermittent exploration between 1982 to 1988. The work included trenching, trench sampling and soil surveys, the latter in previously untested areas.

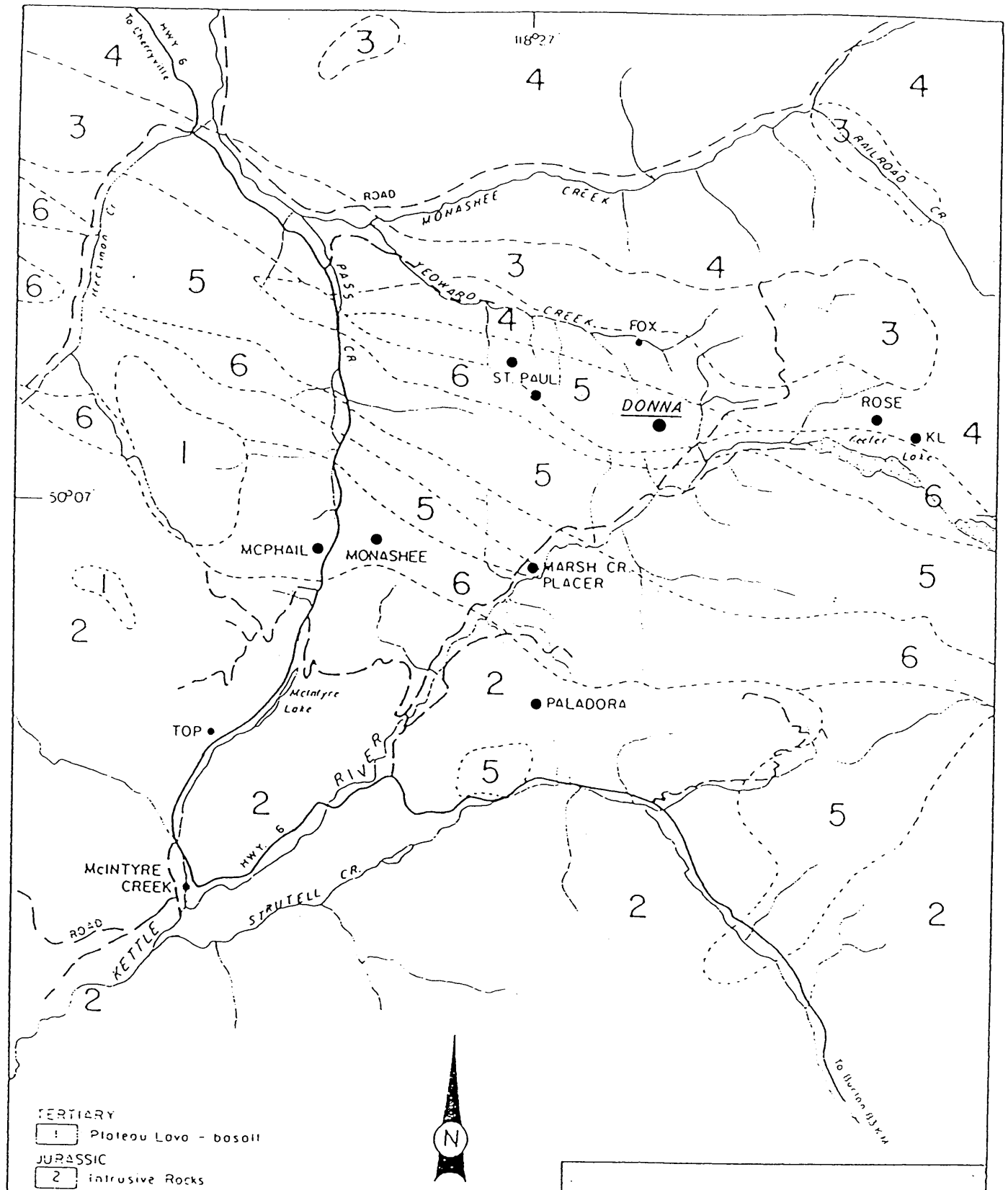
REGIONAL GEOLOGY

The Monashee Mountain area belongs to the Omenica structural belt, here consisting of NW-SE belt of Paleozoic sedimentary and volcanic rocks overlain to the north by Triassic sediments and volcanics, and intruded to the south by plutonic rocks of Jurassic Age (Figures 3 and 4).

The oldest rock unit in the area is the Carboniferous to Permian Thompson Assemblage (formerly Cache Creek Group). It includes argillaceous sediments, volcaniclastic rocks and limestone pods, the individual members of which are interdigitated on a relatively fine scale. The sequence is believed to have undergone sub-greenschist facies metamorphism coeval with Jurassic-Cretaceous orogenic events, though some deformation may have preceded deposition of the Upper Triassic sediments.

The Thompson Assemblage rocks are unconformably overlain to the north by a sedimentary formation belonging to the Slocan Group, as well as volcano-sedimentary rocks belonging to the Nicola Group. Metamorphism of these rocks is relatively low grade and, like in the assemblage to the south, is believed to be related to Mesozoic orogenic events. To the south, the Thompson Assemblage has been intruded by plutonic rocks belonging to the late Jurassic Valhalla Complex. These are predominantly massive granodiorites but their composition varies widely. Locally, Tertiary plateau basalts overlie the above rocks.

The current geological structure of the Southern Omineca Belt and Northern Washington State is a product of Eocene extension and crustal thinning superimposed on a thickened and deformed Paleozoic and Mesozoic crust. High grade gneiss complexes long buried during a period of prior compression, are now exposed by Eocene extensional faults. Extension was accompanied by high angle faulting, alkalic volcanic activity, syntectonic intrusives and widespread hydrothermal activity.



DONNA PROPERTY
REGIONAL GEOLOGY

LUMBY AREA, B.C.

NTS 82LIW VERNON M.D.

0 1 2 3 KM

SCALE 1:50,000	FEB. 1992	FIG. 3
H.M.JONES		

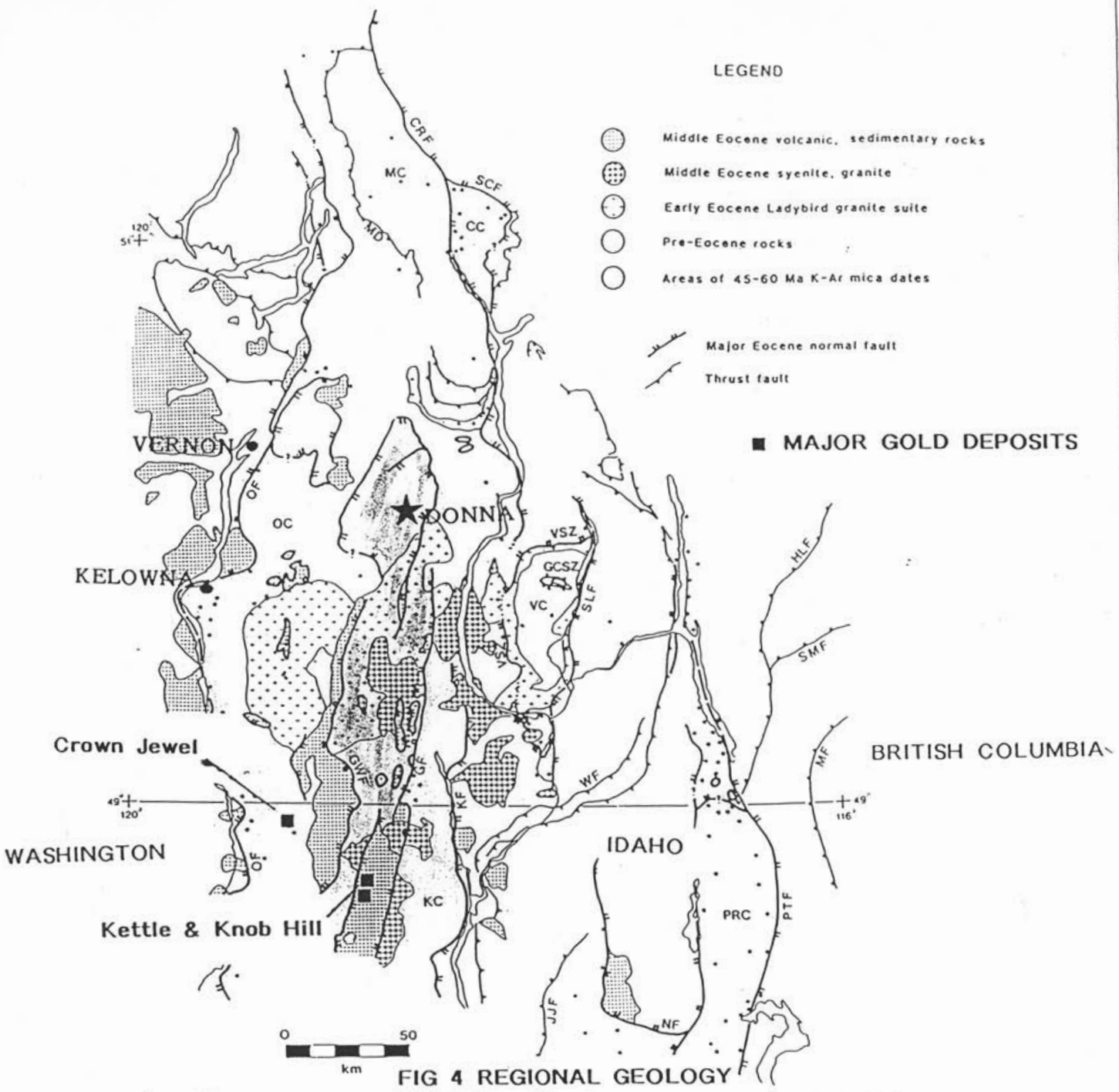


FIG 4 REGIONAL GEOLOGY

Tectonic map of southern Omineca Belt, ... Features shown with patterns are the Early Eocene Ladybird granite suite, Middle Eocene syenite and granite, Middle Eocene volcanic and sedimentary rocks, and areas of older rocks characterized by K-Ar mica dates of 45-60 Ma, dated localities being shown by dots. In the hanging walls of the major Eocene normal faults, K-Ar dates are generally older than 100 Ma (dated localities are not shown but in general are at least as numerous as in the footwalls). Major thrust faults within Monashee and Valhalla complexes are the Monashee decollement and Gwillim Creek shear zones, respectively. Also shown are major thrust faults (mostly Middle Jurassic to mid-Cretaceous in age) within Kootenay Arc and Shuswap Lake areas, outside of the core complexes. This later belt of arcuate discontinuous structures involves west verging backfolds and thrusts which overrode rocks of Quesnel terrane to the west. See Plate 1 for names of complexes and faults and for geographic features. K-Ar mica and Rb-Sr biotite data are from Wanless et al. [1968, 1978, 1979], Stevens et al. [1982a, b], Archibald et al. [1983, 1984], Medford [1975], Miller and Engels [1975], Birnie [1976], Carr et al. [1987], Geological Survey of Canada (unpublished data, 1982 to 1986) and R. L. Armstrong (unpublished data file, 1984).

PROPERTY GEOLOGY

Outcrop is sparse on the property. The property is underlain by northwest-trending argillites and tuffs intruded by a sill-like dioritic unit. Argillite units strike from N10° to 60°W and dip 30° east to 30° west. Quartz veins and stockworks are common but are most abundant in the highly fractured, host diorite stock. All are composed of massive to drusy quartz completely shattered and bordered by hematite-rich selvages. Veins are commonly 2mm to 75mm wide with a few 15 cm to 30 cm wide. Most strike between N20°E and N 45°W and dip 20° to 45° west or southwest. A small number of veins have low dips. Many veins appear to follow bedding while others are related to cross-cutting fractures or shears. Most are irregular, pinch and swell and vary along strike from hairline fracture-filling to 6 cm, then horsetailing out into hairline fractures again. They often show offsets of 6 cm to 60 cm on cross-cutting surfaces.

1992 WORK PROGRAM

The 1992 work program on the Donna property was completed between July 1, 1992 and July 15, 1992. Work included establishing a flagged compass and claim grid totalling seven line-kilometre and the collection of 112 "B" horizon soil samples at 50-metre intervals along lines spaced 200 metres apart.

Soil samples were analysed for gold by AA methods and an additional 31 elements were analysed by ICP methods by Acme Analytical Laboratories Ltd., 852 East Hastings Street, Vancouver, B.C. Soil sample results are presented in Appendix I and gold values and sample numbers are plotted on Figure 5.

RESULTS

Soil sample results for gold are plotted on Figure 5. The purpose of the soil sample program was to re-establish a gold soil geochemical anomaly outlined by previous operators on the property. The soil sampling program was successful in outlining a linear gold soil anomaly extending from line 110+00N and 95+00E to line 100+00N and 97+00E, a distance of 1,200 metres. The gold values correlate positively with enhanced arsenic and base metal values. Localized gold anomalies are present outside of the main soil area.

DONNA 7

DONNA 8

DONNA 17

DONNA 11

DONNA 6

DONNA 5

DONNA 16

DONNA 10

DONNA 3

DONNA 12

DONNA 4

DONNA 9

DONNA 1

DONNA 2

112 00 N

110 00 N

108 00 N

106 00 N

104 00 N

102 N

100 N
100 E

0 100 200 m

Grid line, sample sites and numbers, Gold (ppb)

Contour intervals:
125
70
37
20

Topographic contour interval 20m.

PHELPS DODGE CORPORATION OF CANADA, LIMITED

PROJECT Nº 187 VERNON M.D.

DONNA PROPERTY

SOIL GEOCHEMISTRY
Gold (ppb)

Fox Geological Consultants Ltd.

SCALE	DATE	FILE	NTS	FIG. Nº
1:5000	24 Sept.'92	BY: dlp RSC	82L/1W	5

CONCLUSIONS AND RECOMMENDATIONS

The soil sampling program on the Donna 1 to 17 claim was successful in outlining a coincident gold-arsenic soil anomaly some 1,200 metres long. The soil anomaly correlates closely with a shattered, limonitic diorite sill exposed in numerous trenches in the area. Additional work is recommended to include expanding of the grid to encompass the entire property with sample sites at 50-metre along lines spaced 100 metres apart. Bedrock sampling and prospecting should be undertaken in areas of gold-arsenic anomalies.

DISBURSEMENTS

Project disbursements used to apply assessment work are presented below.

Soil Samples

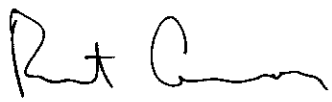
Au by AA/ 31 element ICP			$ 1,421.40

Salaries

R. Roe - Sampler	2.0 days @ $200	400.00	
R. Bailey - Sampler	1.0 days @ $200	200.00	
C. Thorson - Sampler	2.0 days @ $200	400.00	
J. Goodall - Sampler	2.0 days @ $200	400.00	1,400.00
Total Disbursements			**$ 2,821.40**

Prepared by:

PHELPS DODGE CORPORATION OF CANADA, LIMITED



R. S. Cameron, B.Sc.
September 28, 1992

CERTIFICATE

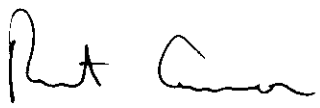
I, Robert S. Cameron, of the City of Vancouver, B.C., do hereby certify that:

1. I graduated from Carleton University in 1981 with a Bachelor of Science Degree in Geology.

2. I have been practising my profession as a geologist since 1981.

3. I am a fellow of the Geological Association of Canada.

4. I have supervised work on the Donna claims for the period specified in this report.



Robert S. Cameron, B.Sc.
Vancouver, B.C.
September 28, 1992

APPENDIX I

Analytical Results

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 187 File # 92-1853 Page 1

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: RICK ROE

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
37360	1	40	12	159	1.2	113	13	465	4.39	13	5	ND	2	20	.5	2	2	28	.13	.172	13	38	.15	152	.05	5	2.39	.02	.04	1	6
37361	1	31	4	135	.9	143	15	508	3.79	6	5	ND	2	8	.3	2	2	63	.05	.061	10	175	2.09	83	.10	4	3.60	.02	.03	1	2
37362	2	40	11	185	1.6	129	16	523	4.10	11	5	ND	2	17	1.6	2	2	56	.12	.229	7	92	1.24	116	.08	6	3.69	.02	.04	1	2
37363	1	69	6	189	.3	247	23	358	4.56	6	5	ND	2	26	1.1	2	2	66	.24	.087	10	129	2.31	103	.09	6	2.99	.02	.08	1	8
37364	1	44	21	150	.4	85	17	766	4.21	162	5	ND	2	17	.8	2	2	51	.15	.107	11	44	.70	81	.11	7	3.67	.02	.05	1	9
37385	1	32	13	184	.6	50	11	795	3.76	11	5	ND	2	17	.5	2	2	59	.11	.123	12	59	.81	281	.06	6	2.68	.01	.07	1	2
37386	3	28	7	108	.1	45	6	179	3.94	7	5	ND	2	16	.5	2	2	58	.09	.089	14	65	.88	155	.05	5	2.29	.01	.07	1	7
37387	14	37	11	184	.9	104	18	1220	4.80	6	5	ND	1	10	1.2	2	2	74	.06	.190	9	95	1.27	283	.05	7	3.07	.02	.06	1	5
37388	1	37	11	128	2.7	53	11	433	3.55	8	5	ND	2	15	1.1	2	2	41	.11	.075	12	53	.61	138	.07	5	2.94	.02	.06	1	10
37389	5	71	18	199	.7	229	22	753	5.66	12	5	ND	1	19	.7	2	2	34	.14	.128	13	74	.87	143	.02	5	1.51	.01	.06	1	4
37390	1	33	13	155	1.2	73	14	903	4.29	23	5	ND	1	19	.8	2	2	42	.16	.101	11	59	.46	176	.08	6	3.25	.02	.06	1	3
37391	1	37	9	116	1.2	90	11	329	3.99	14	5	ND	1	116	2.6	2	2	45	1.11	.082	10	76	.85	172	.04	5	3.28	.01	.06	1	1
37392	1	45	12	126	1.0	137	11	946	2.79	5	5	ND	1	169	4.0	2	2	36	2.70	.110	9	73	.99	168	.04	5	2.62	.02	.05	1	14
37393	2	55	7	208	.4	149	18	940	4.41	65	5	ND	1	60	2.9	2	2	55	.51	.141	15	83	1.13	162	.07	6	4.43	.02	.04	1	7
37394	2	37	18	100	1.9	89	8	458	3.83	466	5	ND	1	26	2.1	2	2	70	.17	.055	8	101	1.06	91	.10	5	2.30	.02	.05	1	3
37395	2	44	7	161	1.6	129	12	363	4.92	23	5	ND	1	61	1.1	2	2	70	.72	.063	10	110	1.70	102	.04	5	3.13	.02	.07	1	40
37396	1	79	4	197	.4	295	24	799	5.18	28	5	ND	1	19	1.9	2	2	87	.21	.074	8	195	2.76	66	.09	5	4.03	.02	.06	1	4
37397	1	27	7	111	.9	102	10	628	4.59	10	5	ND	1	10	.5	3	2	91	.05	.069	5	155	1.73	113	.07	4	2.71	.02	.06	1	2
37398	2	97	12	188	1.3	131	17	1743	3.92	692	5	ND	1	125	3.1	5	2	42	1.53	.143	13	44	.87	96	.05	7	2.66	.03	.08	1	26
37399	1	45	8	169	1.0	125	17	783	5.19	41	5	ND	1	17	1.0	2	2	75	.15	.118	7	159	1.96	123	.06	5	3.10	.02	.06	1	1
37400	1	44	5	166	.7	150	20	793	4.79	10	5	ND	1	18	1.0	2	2	69	.16	.114	8	154	2.19	90	.06	4	3.58	.02	.05	1	4
37401	2	32	4	104	.8	44	9	258	3.67	10	5	ND	2	20	.9	2	2	53	.14	.096	9	54	.76	110	.10	5	4.19	.03	.08	1	3
37402	1	44	8	101	.6	44	14	407	4.41	19	5	ND	1	17	.4	2	2	61	.12	.122	8	47	.84	119	.08	5	3.09	.02	.06	1	7
37403	3	45	25	169	1.3	87	11	459	5.94	934	5	ND	1	18	1.4	11	2	58	.13	.176	8	53	.69	111	.10	5	3.17	.02	.05	1	4
37404	3	239	26	204	2.0	558	24	1651	4.40	286	5	ND	1	84	5.6	5	2	44	1.27	.106	14	66	.66	88	.07	5	3.40	.03	.06	1	15
37405	4	37	11	107	.5	66	14	774	4.02	58	5	ND	1	26	1.0	2	2	56	.25	.073	9	50	.62	113	.12	5	2.46	.02	.07	1	9
37406	3	36	12	123	.6	51	12	592	4.07	158	5	ND	1	18	.6	2	2	50	.13	.128	10	43	.51	95	.10	3	2.67	.02	.06	1	23
37407	1	89	9	118	.6	177	25	608	5.19	147	5	ND	1	36	.8	2	2	65	.27	.077	9	56	1.09	118	.11	3	3.29	.03	.04	1	14
37408	3	96	12	199	.4	135	25	530	5.55	181	5	ND	2	42	.6	2	2	69	.29	.056	10	49	1.15	112	.12	5	3.01	.02	.07	1	15
RE 37405	4	37	12	111	.4	70	15	799	4.19	61	5	ND	1	26	.9	2	2	57	.26	.077	9	52	.66	112	.12	4	2.50	.02	.07	1	7
37409	3	79	12	205	.5	102	26	1207	5.01	144	5	ND	1	63	1.3	2	2	71	.38	.096	10	58	.82	119	.11	6	2.78	.03	.06	1	3
37410	3	43	15	261	1.1	59	17	564	4.65	87	5	ND	1	23	2.3	2	2	63	.17	.114	11	40	.69	123	.08	4	2.80	.02	.05	1	13
37411	1	101	10	305	7.1	157	22	641	5.42	35	5	ND	2	86	5.2	2	2	59	.80	.099	19	35	.53	65	.11	4	5.89	.03	.04	1	8
37412	2	77	11	408	2.2	145	24	537	6.07	40	5	ND	2	50	3.4	2	2	72	.32	.095	12	39	.76	107	.09	6	3.51	.02	.06	1	4
37413	2	38	7	143	.8	50	9	1105	3.04	446	5	ND	1	100	2.8	2	2	36	.96	.103	15	40	.60	86	.05	5	2.34	.03	.05	1	29
37414	3	29	13	124	.7	37	10	311	3.72	189	8	ND	2	19	1.0	3	3	53	.16	.067	11	34	.47	79	.09	5	2.46	.02	.06	1	3
37415	2	46	11	204	.9	56	14	516	4.89	53	6	ND	2	37	1.3	3	2	78	.23	.086	11	43	.72	122	.08	3	2.63	.02	.07	1	4
STANDARD C/AU-S	18	56	39	133	7.2	71	32	1051	3.99	40	19	7	37	52	18.6	15	18	56	.48	.091	37	59	.89	178	.09	35	1.88	.08	.15	11	45

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: SOIL AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE. Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: JUL 10 1992 **DATE REPORT MAILED:** July 14/92 **SIGNED BY.** D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
37416	4	98	15	227	.7	95	22	633	6.36	295	5	ND	1	61	.6	2	2	97	.30	.083	10	38	.63	73	.11	4	3.38	.02	.03	1	5
37417	1	22	12	88	1.8	16	10	454	3.90	24	5	ND	3	21	.2	2	2	38	.14	.186	7	19	.27	101	.14	6	5.12	.03	.04	1	2
37418	1	35	11	111	1.7	26	14	316	3.57	20	5	ND	4	43	.2	5	2	43	.25	.066	14	30	.62	129	.08	6	4.31	.02	.07	2	3
37419	2	44	16	155	.8	52	11	842	4.07	12	5	ND	1	21	.2	3	2	44	.11	.128	14	47	.75	201	.05	6	2.23	.01	.10	1	3
37420	3	40	29	137	.8	93	15	615	4.06	20	5	ND	1	21	.6	3	2	58	.15	.063	13	95	1.53	93	.05	6	2.91	.02	.07	1	2
37421	8	45	17	164	1.2	73	14	722	3.90	9	5	ND	2	57	1.6	4	2	45	.34	.110	14	59	.67	152	.09	5	4.25	.02	.05	1	2
37422	4	39	22	178	1.4	60	13	1114	4.21	15	5	ND	1	29	.2	4	2	47	.19	.116	14	65	.71	187	.05	4	2.40	.02	.07	1	2
37423	4	36	20	110	1.5	45	8	348	4.24	17	5	ND	1	13	.6	2	2	46	.08	.123	13	57	.59	109	.06	5	2.61	.02	.05	1	2
37424	15	34	13	132	.7	59	11	293	4.25	18	5	ND	2	24	.7	2	2	50	.17	.058	12	45	.36	145	.10	4	4.74	.02	.04	1	3
37425	2	27	22	84	3.5	26	10	330	3.64	26	5	ND	2	48	.2	2	2	43	.38	.051	12	31	.46	118	.09	6	2.95	.03	.06	1	2
37426	6	75	12	141	1.9	89	12	2195	2.96	324	5	ND	1	255	6.4	10	2	30	2.98	.181	12	45	.64	139	.03	7	2.42	.03	.07	1	5
37427	1	80	19	112	1.8	73	10	1230	2.99	50	5	ND	1	188	2.7	2	2	28	1.95	.130	14	45	.46	136	.05	6	3.08	.03	.04	1	3
37428	3	46	21	150	.6	56	15	809	4.38	33	5	ND	1	60	1.4	2	2	40	.45	.094	17	42	.47	101	.12	4	3.86	.03	.04	1	3
37429	2	28	12	75	1.3	24	5	166	4.82	63	5	ND	1	26	.3	2	2	46	.16	.077	6	27	.23	103	.14	5	5.01	.03	.03	1	2
37430	1	41	17	125	1.2	49	14	1021	4.03	36	5	ND	2	88	1.8	6	2	37	.76	.102	12	38	.42	114	.09	4	4.06	.02	.06	2	4
37431	1	68	19	195	1.2	92	16	3266	3.84	38	5	ND	1	190	4.1	2	2	33	1.82	.142	16	49	.62	171	.07	5	4.18	.04	.04	1	3
37432	1	69	15	177	.8	111	18	2486	4.40	39	5	ND	1	157	3.6	3	2	41	1.24	.140	16	57	.83	181	.05	4	3.66	.02	.07	1	2
37433	19	37	14	116	.1	101	9	170	5.19	11	5	ND	1	16	.4	2	2	72	.08	.060	9	119	.68	164	.02	3	2.02	.01	.05	1	1
RE 37430	1	39	18	123	.3	46	13	974	3.95	24	5	ND	1	85	1.1	2	2	37	.72	.098	11	37	.41	112	.08	3	3.82	.02	.02	1	4
37434	3	28	14	123	1.8	68	15	540	4.78	17	5	ND	1	23	.6	3	2	44	.18	.098	9	67	.51	155	.07	4	3.69	.02	.04	1	10
37435	2	47	19	169	1.2	78	13	399	4.26	6	5	ND	2	26	.4	2	2	44	.17	.090	18	65	.51	170	.06	3	3.36	.02	.05	1	3
37436	1	57	15	193	1.2	154	20	1686	4.40	16	5	ND	1	174	2.6	3	2	48	1.37	.131	13	94	1.20	219	.05	6	3.57	.03	.05	1	5
37437	1	51	12	151	1.0	176	21	817	4.76	6	5	ND	1	30	.6	2	2	89	.41	.083	7	183	2.91	88	.06	4	3.06	.02	.07	1	3
37438	1	54	16	129	1.0	114	10	551	4.59	11	5	ND	1	24	.4	3	2	69	.21	.209	8	106	1.24	147	.06	5	2.36	.02	.05	1	6
37439	4	82	18	197	1.1	211	27	991	5.50	36	5	ND	2	41	1.6	4	2	65	.47	.108	13	86	1.58	80	.08	3	3.63	.03	.07	1	12
37440	4	38	20	113	.4	44	10	836	3.79	35	5	ND	1	15	.7	2	3	44	.11	.071	10	37	.45	108	.08	3	2.78	.02	.04	1	2
37441	3	63	19	134	1.3	108	15	586	4.44	1776	5	ND	1	49	1.6	2	2	41	.39	.100	11	44	.55	80	.06	3	2.72	.02	.03	1	189
37442	4	41	39	104	2.2	34	9	544	5.23	929	5	ND	1	20	.9	4	2	80	.16	.099	9	41	.53	75	.11	3	2.33	.02	.05	1	118
37443	2	49	22	155	1.0	41	17	843	5.30	210	5	ND	1	24	.7	2	2	108	.18	.118	13	50	.96	108	.15	3	2.75	.03	.11	1	26
37444	2	31	16	100	1.0	35	11	527	4.65	95	5	ND	2	25	.2	5	2	70	.14	.093	11	37	.41	82	.12	4	2.16	.02	.07	1	7
37445	2	25	20	95	1.5	26	9	719	3.64	174	8	ND	4	10	.2	8	2	51	.06	.086	11	35	.42	97	.12	4	2.52	.03	.08	4	6
37446	2	28	11	79	.6	21	10	606	5.19	206	5	ND	3	10	.2	2	2	63	.07	.176	9	32	.41	54	.13	4	4.31	.03	.04	1	15
37447	4	50	18	131	2.0	34	8	1207	3.26	1199	5	ND	1	92	2.4	8	2	37	.82	.131	16	26	.35	81	.06	3	3.08	.03	.05	1	3
37448	2	48	22	167	1.0	44	13	623	3.95	581	5	ND	1	39	4.5	2	2	51	.39	.071	14	43	.71	150	.08	5	2.87	.02	.08	1	18
37451	5	175	43	171	.6	291	25	1455	4.58	829	5	ND	1	133	4.9	10	2	63	1.54	.113	9	62	.96	72	.05	4	2.01	.03	.06	1	34
37452	2	87	17	123	.5	166	32	1566	4.64	186	5	ND	1	80	.9	5	2	60	.64	.087	7	75	.86	126	.06	4	1.73	.03	.06	2	11
37453	3	94	16	100	.7	111	20	509	5.11	162	5	ND	1	25	.4	2	3	68	.16	.071	8	53	.80	94	.09	5	2.79	.02	.04	1	8
STANDARD C/AU-S	17	56	40	131	6.8	69	31	1036	3.92	39	18	7	35	53	18.4	14	19	56	.47	.089	36	57	.87	176	.09	35	1.85	.08	.15	11	47

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
37454	4	33	14	138	.3	40	11	648	3.97	19	5	ND	3	20	.3	2	2	53	.13	.071	10	35	.51	103	.09	4	2.64	.02	.04	1	1
37455	3	36	22	153	.2	49	13	918	3.87	62	5	ND	4	26	.4	2	2	50	.18	.063	12	43	.61	154	.09	4	2.58	.03	.06	1	4
37456	1	166	21	321	2.1	145	20	1853	4.84	616	5	ND	2	138	4.8	2	2	62	1.52	.096	15	45	.54	83	.07	4	3.06	.03	.04	1	9
37457	2	33	17	146	.5	38	11	483	3.68	97	5	ND	3	22	.7	2	2	53	.15	.055	11	33	.56	115	.09	4	2.53	.02	.05	1	4
37458	2	27	19	126	1.1	39	9	376	3.37	22	5	ND	3	19	.7	2	2	43	.14	.084	10	33	.47	107	.09	5	2.65	.03	.06	1	3
37459	2	39	19	145	.3	40	11	551	3.83	47	5	ND	3	22	.4	2	2	47	.17	.062	13	37	.58	97	.08	4	2.47	.02	.05	1	4
37460	2	34	14	152	.9	43	10	366	3.60	55	5	ND	2	17	.6	2	2	44	.11	.081	12	37	.60	113	.07	3	2.59	.02	.05	1	6
37461	2	32	19	178	1.1	44	11	619	3.94	36	5	ND	3	24	.7	3	2	66	.15	.090	10	35	.57	119	.09	4	2.54	.02	.06	1	105
37462	1	29	18	122	1.2	55	11	493	4.54	25	5	ND	3	14	.2	2	2	54	.09	.113	10	52	.59	139	.08	3	2.44	.02	.05	1	50
37463	2	35	22	119	1.2	40	9	418	5.74	31	5	ND	3	11	.2	2	3	53	.06	.159	9	39	.47	100	.09	4	2.88	.02	.04	1	6
37464	1	38	18	165	.1	108	15	565	4.06	20	5	ND	1	60	.2	2	2	45	.33	.083	10	75	.76	145	.08	6	3.05	.02	.04	1	7
37465	1	34	10	174	1.3	224	23	644	4.99	10	5	ND	2	15	.8	2	2	102	.10	.116	6	201	2.65	104	.05	5	3.55	.02	.04	1	2
37466	1	48	17	170	.5	171	23	772	4.47	30	5	ND	3	22	1.0	2	2	46	.19	.113	8	55	.82	154	.10	5	3.09	.02	.06	1	3
37467	1	62	20	221	.4	197	27	2153	5.13	322	5	ND	1	46	1.1	2	2	55	.37	.105	11	83	1.30	212	.05	4	2.63	.02	.06	1	38
37468	2	79	15	130	1.5	36	36	695	8.11	1163	5	ND	4	29	.4	6	2	113	.40	.214	13	30	1.16	70	.09	3	2.93	.02	.06	1	389
37469	1	44	24	118	1.3	31	20	643	6.02	307	7	ND	3	15	.2	5	3	80	.18	.225	11	31	.76	75	.10	6	2.51	.02	.06	1	200
37470	3	50	22	157	.3	50	13	739	4.30	79	5	ND	2	26	.2	2	2	63	.14	.073	12	36	.68	118	.10	4	2.80	.03	.06	1	11
37471	16	53	20	148	.9	56	12	1457	3.95	201	5	ND	1	46	1.6	5	2	55	.43	.101	16	29	.48	85	.09	5	3.88	.02	.07	1	17
37472	2	35	21	100	1.2	28	9	441	3.69	82	5	ND	2	19	.2	3	2	49	.13	.094	11	33	.51	84	.08	4	2.20	.02	.05	1	12
37473	1	19	22	94	1.1	16	6	810	2.77	12	5	ND	1	12	.2	2	2	37	.10	.074	10	24	.31	107	.08	3	2.01	.02	.04	1	3
RE 37469	2	44	24	118	1.3	32	19	644	5.88	285	5	ND	3	15	.2	2	2	79	.17	.221	11	31	.75	75	.10	3	2.47	.02	.06	1	68
37474	2	28	22	92	1.7	24	7	573	3.24	21	5	ND	1	13	.3	2	2	43	.10	.125	12	30	.41	96	.09	3	2.35	.02	.06	1	5
37475	1	23	18	110	.7	27	8	532	3.24	28	5	ND	1	20	.2	2	2	47	.17	.105	12	36	.51	109	.08	5	2.43	.02	.07	1	7
37476	9	43	27	146	1.8	76	10	1884	3.29	515	5	ND	1	77	2.1	2	2	41	.72	.105	15	34	.49	103	.06	3	3.19	.03	.06	1	5
37477	4	26	21	74	.7	22	5	392	3.02	99	5	ND	2	13	.2	2	2	43	.09	.081	12	25	.35	70	.10	4	1.81	.02	.05	1	6
37478	1	23	18	122	1.9	47	10	659	3.66	19	5	ND	1	36	.3	2	2	54	.29	.114	7	69	.64	151	.13	6	3.72	.02	.05	1	4
37479	1	26	16	92	1.4	27	12	455	3.69	49	5	ND	1	20	.4	4	2	48	.18	.121	7	31	.56	105	.09	5	4.33	.02	.05	1	6
37480	1	77	20	186	2.2	147	13	1043	3.87	754	5	ND	1	60	2.9	7	2	48	.66	.104	10	51	.82	80	.06	5	2.98	.02	.06	1	37
37481	1	53	20	109	.4	86	14	447	3.95	56	5	ND	2	28	.3	3	2	51	.21	.063	13	58	1.20	139	.09	3	2.44	.03	.10	1	7
37482	1	53	24	179	.6	200	25	987	4.15	132	5	ND	1	23	2.6	2	2	42	.13	.133	6	44	.47	98	.10	3	3.11	.02	.03	1	17
37483	1	104	27	125	.9	177	19	1054	4.20	897	5	ND	1	61	1.2	4	2	49	.70	.075	13	52	.92	86	.08	4	2.56	.03	.07	1	23
37484	1	55	28	96	.4	71	15	381	3.91	219	5	ND	2	28	.2	5	2	50	.24	.069	12	47	1.00	94	.08	4	2.82	.02	.07	1	27
37485	2	30	20	121	1.1	45	12	506	3.77	96	5	ND	2	19	.4	3	2	49	.15	.135	11	34	.51	92	.12	6	3.54	.03	.05	1	9
37486	1	40	24	104	.3	55	13	403	3.66	76	5	ND	2	22	.2	2	2	51	.16	.116	12	43	.72	95	.09	4	2.25	.02	.06	1	9
37487	1	22	19	139	.8	24	9	888	3.15	33	5	ND	1	19	.8	2	2	39	.17	.200	10	26	.39	115	.10	2	3.21	.02	.05	1	20
37488	1	25	18	158	.9	36	10	685	3.18	29	5	ND	1	24	1.2	2	2	43	.16	.136	11	38	.61	127	.09	2	2.54	.02	.05	1	104
37489	1	28	18	122	.5	33	10	656	3.27	24	5	ND	1	17	.8	2	2	42	.13	.088	11	47	.64	82	.09	3	2.43	.02	.07	1	3
STANDARD C/AU-S	18	58	41	133	7.2	72	30	1039	3.95	40	18	7	36	52	18.2	14	19	54	.48	.089	35	57	.89	177	.09	34	1.89	.08	.14	11	52

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
37490	2	27	15	132	.5	30	10	503	3.10	25	5	ND	2	15	.8	2	2	38	.11	.114	10	27	.42	86	.08	3	2.51	.01	.05	1	6
37491	2	58	14	107	.8	57	18	680	3.95	132	5	ND	1	83	1.0	2	2	55	.73	.097	14	54	.84	70	.07	3	2.00	.02	.07	1	161
37492	6	106	10	224	.9	81	27	995	5.67	65	5	ND	1	71	1.1	2	2	109	.49	.070	12	44	1.29	104	.08	3	1.75	.01	.04	1	19
37493	2	34	18	218	.6	31	13	1822	3.32	52	5	ND	1	23	1.6	2	2	47	.18	.154	9	30	.42	215	.08	3	2.58	.02	.06	1	3
RE 37490	1	27	12	129	.5	30	10	508	3.02	25	5	ND	3	15	.6	2	2	37	.10	.114	10	27	.42	86	.08	3	2.45	.01	.05	1	8

Sample type: SOIL. Samples beginning 'RE' are duplicate samples.