84-#9 - 11916

1/85

GEOCHEMICAL REPORT

ON

CUNNINGHAM CREEK CLAIMS

(MINERAL LEASE M32, JIM 251(9) & BLACKMARTIN CLAIMS 1128(8) 1129(8)
CARIBOO MINING DIVISION
N.T.S. MAP 93A/14W
LAT. 55° 55'N LONG. 121° 21'W

FOR

IMPERIAL METALS CORPORATION
1300 - 409 GRANVILLE STREET
VANCOUVER, B.C. V6C 1T2

BY

STEPHEN P. QUIN B.SC., A.R.S.M.
MINING GEOLOGIST
IMPERIAL METALS CORPORATION
DECEMBER, 1983

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LIST OF ILLUSTRATIONS

1. LOCATION & ACCESS :

The Cunningham Creek Property is located approximately 20 miles south of Wells-Barkerville in the Cariboo Mining Division of British Columbia. The approximate centre of the claims is Latitude 55° 55' N and Longitude 121° 21' W.

The property may be reached by four wheel drive road by following the Cunningham Creek Pass logging road east from Barkerville for 15km then turning south on the Barkerville - Likely road. This road traverses the property from north to south. Barkerville is 85km east of Quesnel on Highway #97.

A location map accompanies this report (figure 1).

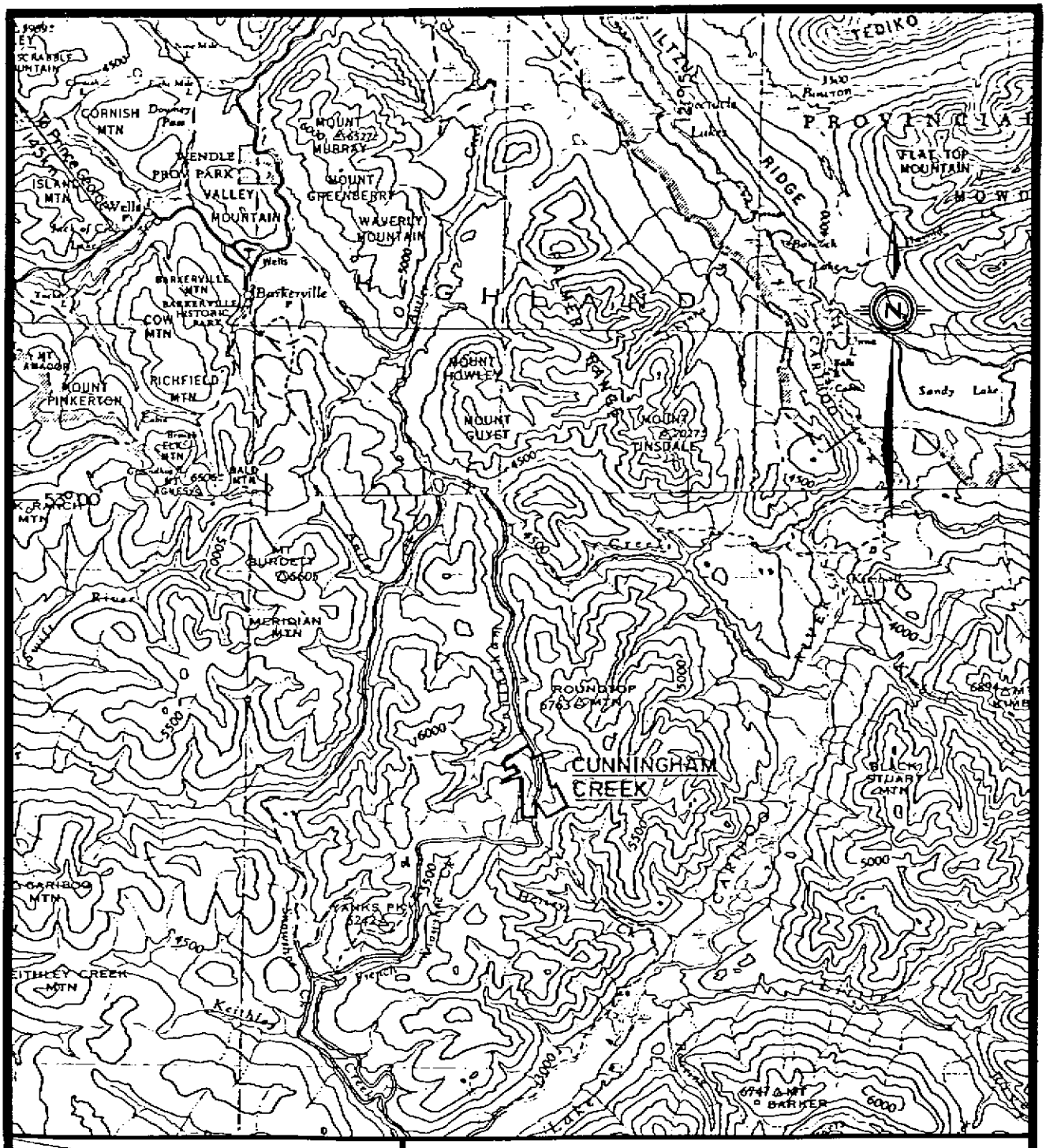
2. PROPERTY :

The Cunningham Creek property consists of Mineral Lease M32, five reverted Crown Grants and on modified grid claim of 3 units. The total area held is approximately 325 hectares.

The details are :

Name	Lot #	Record #	Expiry Date
Mineral Lease	-	M32	Jan. 6th, 1984
Jim		251	Sept. 7th, 1985
Black Martin #2	5914	1129	Aug. 14th, 1985
Black Martin #1	5915	1129	Aug. 14th, 1985
Black Martin #3	5616	1128	Aug. 14th, 1985
Black Martin Fr.	5918	1128	Aug. 14th, 1985
Sidewinder #1	5910	1951	July 11th, 1984
Sidewinder #2	5911	1952	July 11th, 1984
Sidewinder #3	5912	1953	July 11th, 1984

A property map is given in Figure 2.



IMPERIAL METALS CORPORATION

CUNNINGHAM CREEK

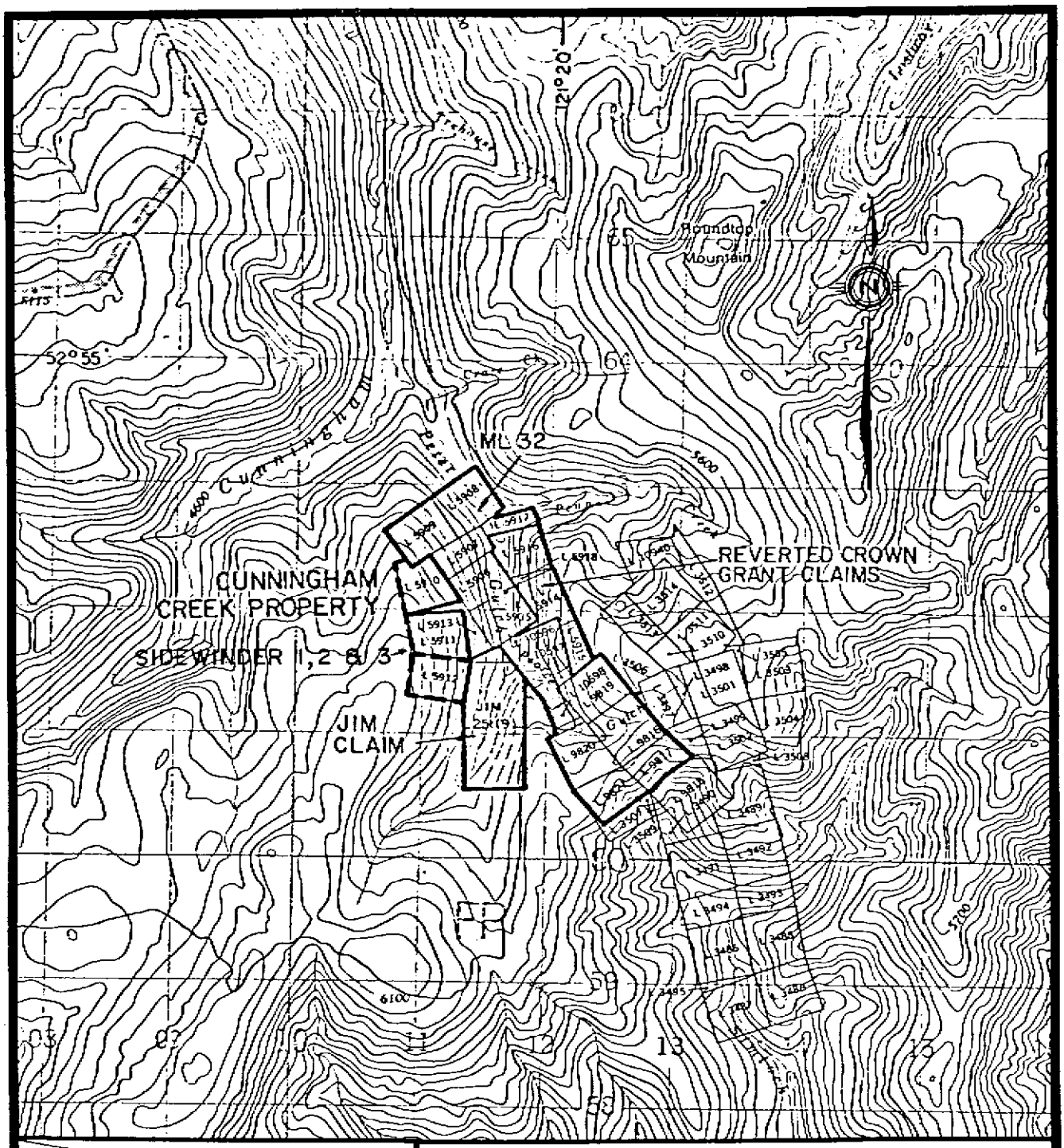
FIGURE 1 N.T.S. 93A,H

LOCATION MAP

Cariboo Mining Division, British Columbia

Km 5 0 5 10 15 Km

SCALE: 1:250 000	*GEOLOGIST:* S. P. QUIN, B. Sc.
DATE: NOVEMBER 1983	*DRAWN BY:*



IMPERIAL METALS CORPORATION

CUNNINGHAM CREEK

FIGURE 2 N.T.S. 93A/14

PROPERTY MAP

Cariboo Mining Division, British Columbia

Km 1 0 1 2 3 Km

SCALE: 1:50 000	GEOLOGIST: S.P. QUIN, B.Sc.
DATE: NOVEMBER 1983	DRAWN BY:

3. HISTORY :

The Cariboo District is well known for placer and lode gold mining activity that has been carried on somewhat intermittently since 1860. Placer mining peaked well before the turn of the century and has since been sporadic and of minor importance, although in recent years, with marked increases in the price of gold, it has increased considerably. Total placer gold production is estimated to be 2.5 - 3 million ounces.

A number of lode gold mines were developed in the district. Most were very small producers but two, the Cariboo Gold Quartz and the Island Mountain, each produced in excess of one million tonnes of ore grading 0.40 and 0.46 ounces per ton gold respectively during the years 1933 to 1967. More recently, a small underground mine was put into production on Mosquito Creek near the old Island Mountain mine. The distrcit has experienced a resurgence of exploration activity during the past few years with the search being concentrated on gold, tungsten and base metals.

The present Cunningham property encompasses a number of old underground workings including one small producer, the Cariboo-Hudson mine. During the years 1937 - 1939 it produced 11,737 tonnes of gold ore having an average of 0.44 ounces per ton.

Exploration, conducted on a sporadic basis during the 1940's and 1950's consisted of extensive bulldozer trenching and some diamond drilling. In the early 1970's detailed soil sampling and geophysical surveys were completed on six target areas. In 1977, five diamond drill holes totalling 461 metres were drilled on one of the grids. In 1979, three more holes were drilled on the same grid. The total hole length drilled at this time is uncertain but was in excess of 100 metres.

4. GEOLOCIAL SETTING :

Geological work by the Geological Survey of Canada and by the British Columbia Ministry of Mines has resulted in some discrepancies about the absolute ages of the rocks in the Cariboo District, and about the relative ages of the major units. For this study, the older system of the provincial agency, which has been used throughout the district, is employed.

The area is underlain by metasedimentary rocks which trend northwest in elongate belts. They are tightly folded and often overturned. The major structural feature in the property area is the Cunningham Anticlinorium. The major units comprising the metasedimentary rocks are the Snowshoe Formation and the underlying (?) Midas Formation, both of Late Precambrian or Cambrian age.

The Cunningham Creek property is underlain by the Snowshoe Formation; the Midas Formation is located a short distance to the east. The property is bisected by the northeasterly striking Copper Creek fault. The Snowshoe Foramtion consists of upper and lower members, the Rainbow and Baker. The Rainbow Member is composed of predominantly fissile, fine grained, finely bedded micaceous quartzite plus interbedded black argillite and some limestone. The Baker rocks are generally lighter colored, consisting of calcareous serecitic phyllite and quartzite interbedded with a few bands of limestone. In the Cariboo Gold Quartz and Island Moutanin mines, the gold occured in quartz-pyrite replacement deposits in the Baker Member.

5. MINERAL OCCURRENCES :

The presence of gold-bearing veins on the property is indicated by the production of 11,737 tonnes of ore grading 0.44 ounces per ton from the Cariboo-Hudson Mine. Whether the mine was depleted or not is certain - there may be possibilities for extensions beyond the old workings. On another vein, the 'Shasta', spatial relationships of three drill hole intersections and a trench exposure are such that a small geological reserve can be calculated. It amounts to approximately 2700 tonnes of possible or drill indicated material with an average grade of 0.66 ounces per ton gold.

Besides gold mineralization, scheelite (tungsten mineralization) was discovered on the property in an area called Peters Gulch. Exploration done in the 1940's and early 1950's included ground sluicing, stripping and drifting. It is reported that 20 metres of scheelite-bearing zone was exposed underground before it was lost due to faulting.

Other mineral occurrences on the property were explored by trenching and adits but results for most are not available.

Results of previous soil geochemical surveys are not startling (they did not clearly define the Cariboo-Hudson vein) but they do indicate some targets that should be prospected, trenched and possibly drilled.

6. SOIL SAMPLING :

Previous work indicated three principal areas of interest, at the north end, central area and south end of the property (see Figure 3). The southern area covers the old mine and partially drilled Shasta vein. In all cases, the sampling method was B soil horizon at a depth of approximately 20 - 30m with mattock and trowel, putting approximately 250 grammes into brown, kraft paper bags. The samples were then shipped to Acme Analytical Labs of Vancouver and geochemically assayed by the methods outlined in Appendix B.

a) North Grid :

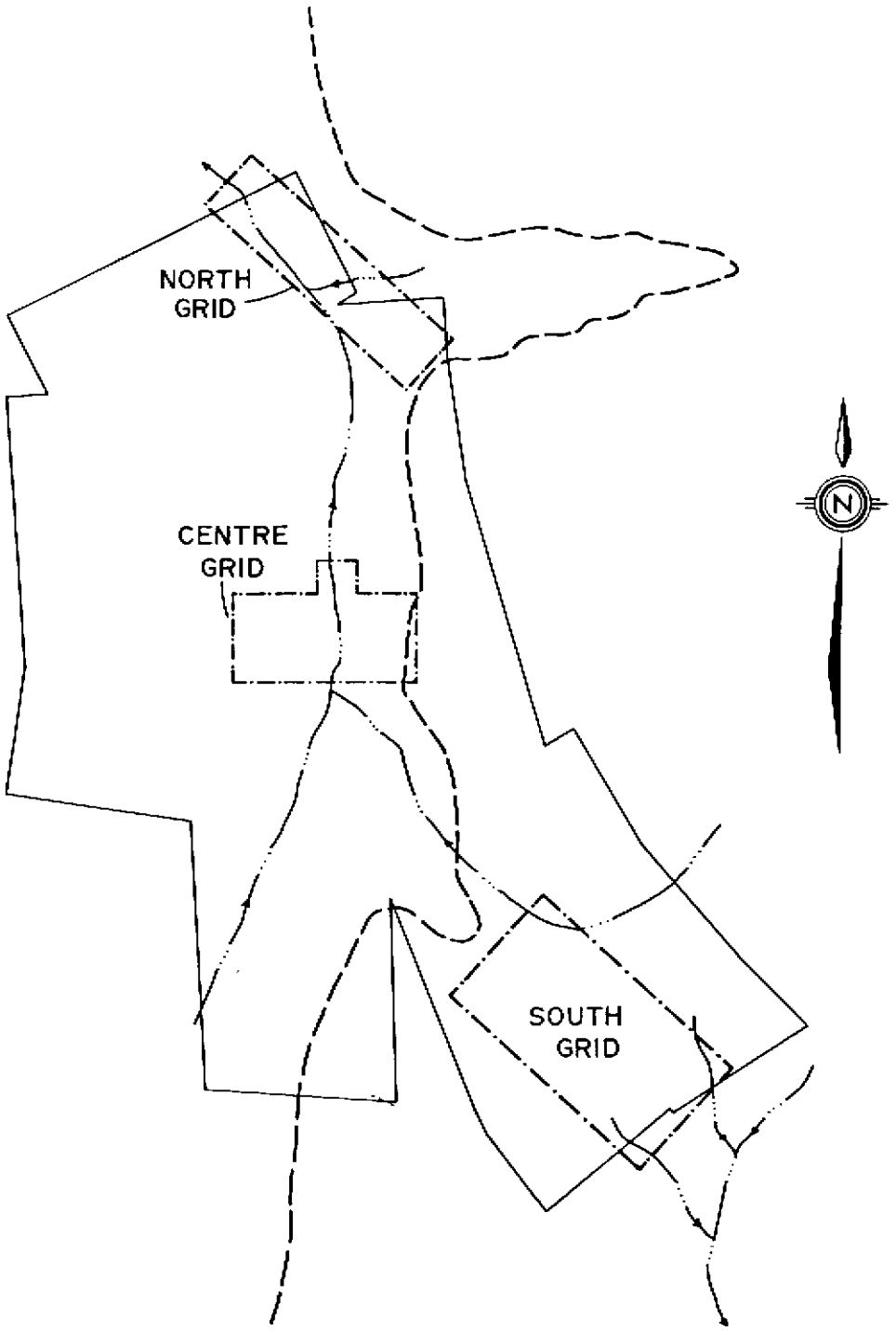
An 800m by 250m grid was emplaced at the north end of the claim block, with the base line orientated at 330° and the lines limited on the west by Peters Gulch Creek. A total of 290 soil samples were collected and geochemically assayed for gold. The results are given in Appendix A and plotted on Figure 4.

b) Centre Grid :

A 500m by 250m grid was emplaced over the central target area, immediately north of the campsite and the confluence of Peters Gulch and Pearce Creeks. The base line was oriented east-west and the lines run 250m north, while 3 lines were extended an additional 100m north. In total 367 samples were collected and geochemically assayed for gold. The assay certificates are presented in Appendix A and the results plotted on Figure 5.

c) South Grid :

This was the principal area of interest in this soil survey, investigating the south easterly extension of the Cariboo-Hudson vein, strike extensions to the Shasta vein and other possible mineral occurrances. A 900m base line, orientated at 330° was emplaced, with 400m cross-lines every 25m. Samples were collected at a 10m interval on these cross lines. Half the samples were sent for assay, giving results for a 50m line interval, and later 3 intermediate lines assayed in the



LEGEND

- Approximate Claim Boundary
- Detailed Grid
- Road
- Creek

IMPERIAL METALS CORPORATION

CUNNINGHAM CREEK

FIGURE 3 N.T.S. 93A/14

GRID LOCATION MAP

Cariboo Mining Division, British Columbia

250 0 250 500 750 1000 1250

Metres

SCALE: 1:20 000	GEOLOGIST: S. P. QUIN, B.Sc.
DATE: NOVEMBER 1983	DRAWN BY: S. HAWORTH

c) South Grid : (cont'd)

central area. In total, 1500 samples were collected and 881 sent for geochemical assay.

The south grid was used as a test area for the assay procedure. The first batch of samples (167 in total) were sent for assay using I.C.P. to determine values for 30 metals plus gold, to determine which elements best detected the known veins. Gold itself was found to respond best so the next 598 samples from this grid were assayed for gold only. When the 3 intermediate lines were sent for assay (122 samples in total) they were geochemically assayed for Cu, Zn, Ag, As, Sb and Au since Galena, Pyrite and Sphelerite had been observed in the Shasta vein in this area and it was hoped that some relationship might be found between gold and at least one of these elements. No such relationship was found.

The results for the South Grid are given in Appendix A and plotted on Figure 6.

7. DISCUSSION OF RESULTS :

In all three grids, gold soil geochemistry clearly outlined the principal veins known to occur within the grid boundaries. The use of trace or Indicator elements to more clearly distinguish the anomalous veins was tested and found wanting. The only corrolations noted were of gold with lead and to a lesser extent with zinc and silver. However, the corrolation in all three cases is not that good, with some gold anomalous areas showing background lead, zinc and silver. Hence it is concluded that gold soil geochemistry gives clearer, more distinct anomalies than any other element, with a higher anomaly to background ratio. In future, geochemical prospecting should utilize only gold as a pathfinder for auriferous veins.

In more detail, the NORTH GRID clearly indicates strike extensions of the two principal veins to the north and possibly to the south of the two adits. The CENTRE GRID results are less clear, but detect anomalies in the area of the two veins developed by adits, plus a fairly large anomalous area on the 3 lines extended further north. (This may represent placer contamination) plus several as yet unexplained scattered anomalies. The SOUTH GRID outlines the south easterly extension of the Cariboo Hudson vein between lines 2+00E and 5+00E, a rather broken trace of the Shasta vein between lines 1+00E and 5+00E and some parallel anomalous trends to the northwest of the Shasta trace, between lines 0+00E and 2+50E. There are also scattered anomalous results that are, as yet, unexplained.

8. ITEMIZED COST STATEMENT :

Geologist 6 days (4-9 Aug.'83 inclusive) @ $175/d		$ 1,050.00
2 Assistants 25 days (4-28 Aug.'83 inclusive) @ $125/d		6,250.00
Geochemistry 1533 Geochem Au by A.A. @ $3.75		5,748.75
1533 Sample preparations @ $0.50		766.50
161 Geochem 30 metals by ICP @ $5.50		885.50
122 Geochem Cu,Zn,Ag,As,Sb assays @ $4.00		488.00
1500 Soil bags @ $100 per 1,000		150.00
Camp costs (25 days @ $60/day)		1,500.00
Field equipment & supplies for camp		1,634.77
Truck & Gas (25 days @ $40/day)		1,000.00
Drafting 6 days @ $100/day		600.00
Report 2 days @ $150/day		300.00
Miscellaneous expenses		423.04
	TOTAL	$ 20,796.56

9. STATEMENT OF QUALIFICATIONS :

I, Stephen Paul Quin, of 115 - 7297 Moffatt Road, Richmond, B.C. do hereby certify that :

1. I am a Mining Geologist in the employ of Imperial Metals Corportion with the head office at 1300 - 409 Granville St., Vancouver, B.C.

2. I am a graduate of the Royal School of Mines, London, Great Britain with a Batchelor of Science (Honors) Degree in Mining Geology.

3. I have been involved in exploration geology in British Columbia for the past five years and have been continuously employed by Imperial Metals Corporation and its predecessor companies for the past three years.

4. This report is compiled from the given references and the authors personal experience of the property.

S.P. Quin, B.Sc. A.R.S.M.

Dated this 6 day of Jan 1984

10. REFERENCES :

Allen G.	1977	Drilling Report.
Dolmage, Campbell & Assoc.	1983	Evaluation of Principal Mineral Assets. (Imperial Metals Corporation.
Quin S.P.	1980	B.Sc. (Min.Geol.) Thesis for Royal School of Mines.

APPENDIX A

ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS, VANCOUVER B.C. PH:253-3158 TELEX:04-53124

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR. THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE. SAMPLE TYPE - SOIL

DATE RECEIVED AUG 10 1983 DATE REPORTS MAILED Aug 15/83 ASSAYER DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT # CUNNINGHAM FILE # 83-1562A

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
0S 0E	1	24	38	74	.2	26	17	940	3.91	16	4	ND	2	9	1	2	2	28	.08	.12	24	25	.29	65	.01	4	1.43	.01	.07	2	15
0+10S 0E	1	26	47	77	.1	26	19	1092	3.87	17	8	ND	2	11	1	2	2	27	.12	.11	22	24	.29	70	.01	4	1.53	.01	.08	2	5
0+20S 0E	2	43	38	117	.1	47	18	560	4.32	29	2	ND	11	8	1	2	2	22	.03	.04	38	29	.52	69	.01	7	1.42	.01	.08	2	30
0+40S 0E	2	41	48	111	.1	48	20	675	4.25	23	2	ND	6	11	1	2	2	23	.10	.06	34	27	.50	72	.01	4	1.37	.01	.08	2	25
0+50S 0E	1	34	29	97	.1	44	16	472	4.04	13	3	ND	9	8	1	2	2	26	.06	.04	39	34	.55	54	.01	5	1.36	.01	.07	2	65
0+80S 0E	2	39	351	136	.1	45	18	650	4.19	17	4	ND	5	12	1	2	2	25	.17	.07	32	30	.49	70	.01	5	1.42	.01	.09	2	110
0+90S 0E	1	40	5311	318	1.8	44	18	681	4.22	32	2	ND	8	12	2	18	2	23	.21	.12	27	25	.45	80	.01	4	1.19	.01	.07	3	1650
1S 0E	1	20	40	62	.1	27	9	195	4.33	16	3	ND	2	6	1	2	2	27	.03	.07	28	28	.35	48	.01	4	1.23	.01	.05	2	50
1+10S 0E	1	39	19	71	.3	24	18	1210	3.51	10	5	ND	2	17	1	2	2	27	.18	.12	35	22	.27	68	.01	3	1.87	.01	.05	2	5
1+20S 0E	1	17	20	52	.2	16	14	761	3.50	6	2	ND	2	7	1	2	2	28	.05	.06	29	23	.23	49	.01	4	1.34	.01	.05	2	25
1+30S 0E	1	20	17	53	.1	17	12	406	3.65	9	2	ND	2	7	1	2	2	24	.07	.08	26	21	.25	46	.01	3	1.44	.01	.05	2	15
1+40S 0E	1	20	17	59	.1	16	13	450	4.12	7	2	ND	2	14	1	2	3	24	.18	.09	24	18	.18	53	.01	2	1.25	.01	.05	2	15
1+50S 0E	1	26	30	63	.2	18	23	2053	4.63	16	2	ND	2	12	1	2	3	34	.16	.13	19	19	.24	66	.01	3	1.54	.01	.07	2	20
1+60S 0E	1	17	27	46	.4	13	32	1104	3.34	10	2	ND	2	12	1	2	2	26	.16	.11	21	13	.18	60	.01	2	1.21	.01	.05	2	75
1+70S 0E	1	25	78	64	.7	21	14	886	3.73	26	2	ND	2	10	1	2	11	27	.13	.08	28	20	.27	64	.01	3	1.33	.01	.06	2	130
1+80S 0E	1	13	15	33	.2	13	5	207	4.12	5	2	ND	2	5	1	2	2	32	.03	.05	26	19	.12	42	.01	2	1.10	.01	.04	2	15
1+90S 0E	1	12	7	23	.1	6	8	367	1.93	2	2	ND	4	13	1	2	3	16	.12	.06	34	11	.09	173	.01	2	1.05	.01	.04	2	30
2S 0E	1	12	8	32	.1	10	5	234	3.93	2	3	ND	3	6	1	2	3	30	.02	.05	37	15	.07	36	.01	2	1.04	.01	.04	2	10
2+10S 0E	1	18	14	33	.1	12	5	210	3.85	7	2	ND	3	5	1	2	2	26	.01	.07	32	16	.08	37	.01	2	1.17	.01	.04	2	5
2+20S 0E	1	22	37	51	.1	25	11	969	7.10	14	2	ND	3	4	1	2	2	32	.01	.07	29	13	.08	33	.01	4	.99	.01	.04	2	5
2+30S 0E	1	32	106	94	.3	34	20	2511	7.36	14	2	ND	6	4	1	2	2	20	.02	.08	25	11	.06	27	.01	3	1.06	.01	.03	2	5
2+40S 0E	1	24	65	106	.4	36	19	3684	6.40	9	2	ND	6	19	1	2	4	15	.14	.11	56	7	.05	71	.01	3	.77	.01	.03	2	5
2+50S 0E	1	14	31	32	.2	8	6	575	3.26	10	2	ND	3	5	1	2	4	19	.01	.06	27	13	.09	37	.01	2	.94	.01	.04	2	5
2+60S 0E	2	96	65	120	.9	49	16	5443	14.19	37	4	ND	5	9	1	2	2	39	.05	.13	24	16	.22	91	.01	2	1.64	.01	.04	7	150
2+70S 0E	1	49	22	65	.1	37	17	1114	5.51	14	4	ND	5	5	1	2	2	17	.01	.06	26	8	.13	48	.01	3	.83	.01	.04	2	15
2+80S 0E	1	21	23	31	.2	9	5	475	2.78	7	2	ND	2	4	1	2	2	20	.01	.07	23	14	.13	38	.01	2	1.03	.01	.04	2	5
2+90S 0E	1	20	28	45	.1	13	7	357	3.61	6	2	ND	2	5	1	2	2	26	.02	.09	24	21	.20	42	.01	3	1.15	.01	.05	2	5
3S 0E	1	25	78	93	.1	19	11	786	5.45	21	4	ND	3	6	1	2	2	34	.02	.08	23	21	.21	49	.01	3	1.41	.01	.05	2	10
3+10S 0E	1	23	35	44	.2	12	8	1048	3.82	11	2	ND	2	6	1	2	2	26	.01	.10	26	15	.11	37	.01	3	1.08	.01	.04	2	15
3+20S 0E	1	23	32	56	.1	16	9	790	4.79	18	2	ND	2	5	1	2	2	29	.01	.12	28	18	.15	50	.01	4	1.11	.01	.04	2	5
3+30S 0E	1	15	35	48	.1	17	8	862	4.48	11	2	ND	2	4	1	2	2	17	.01	.12	28	10	.08	32	.01	3	.81	.01	.03	2	5
3+40S 0E	1	20	31	46	.1	13	7	438	5.02	14	2	ND	2	4	1	2	2	30	.01	.07	25	14	.10	42	.01	2	1.04	.01	.04	2	5
3+50S 0E	1	24	33	84	.1	17	11	1000	5.98	19	4	ND	2	6	1	2	2	36	.04	.11	19	17	.20	58	.01	4	1.45	.01	.05	2	5
3+60S 0E	1	37	41	123	.1	23	18	2558	4.93	12	2	ND	2	11	1	2	2	37	.11	.15	21	26	.33	81	.01	4	2.02	.01	.06	2	10
3+70S 0E	1	32	32	130	.1	24	18	1843	4.97	12	3	ND	2	12	1	2	2	36	.13	.13	23	23	.40	98	.01	2	2.03	.01	.05	2	15
3+80S 0E	1	28	42	103	.1	19	23	1490	5.00	10	2	ND	2	21	1	2	2	37	.33	.16	17	20	.30	81	.01	4	1.78	.01	.05	2	5
3+90S 0E	1	82	25	114	.1	23	22	690	7.25	7	2	ND	4	12	1	2	2	29	.17	.10	17	10	.10	66	.01	2	1.11	.01	.04	2	5
4S 0E	1	185	22	128	.1	29	44	2142	9.87	25	2	ND	3	13	1	2	2	54	.23	.18	10	12	.32	69	.01	3	1.38	.01	.04	2	5
STD A-1/AU 0.5	1	31	39	184	.3	36	13	1064	2.77	10	2	ND	2	36	1	2	2	58	.59	.10	8	72	.74	273	.07	7	2.08	.02	.21	2	485

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
0S 4E	2	21	20	65	.1	24	12	629	3.88	19	2	ND	2	8	1	3	2	28	.06	.08	30	19	.15	72	.01	3	1.10	.01	.09	2	5
0+10S 4E	1	21	14	59	.1	29	16	893	3.84	21	2	ND	2	10	1	2	2	24	.14	.09	27	12	.09	83	.01	4	.69	.01	.07	2	5
0+20S 4E	1	18	19	51	.1	22	8	304	3.45	20	3	ND	2	6	1	2	2	26	.05	.07	35	15	.08	60	.01	4	.83	.01	.07	2	10
0+30S 4E	1	25	571	200	.7	24	12	1201	3.42	27	2	ND	2	16	2	2	2	22	.21	.13	26	15	.21	118	.01	4	1.13	.01	.09	15	40
0+40S 4E	1	20	1058	370	.4	26	10	818	3.61	35	3	ND	2	8	2	4	2	25	.12	.11	26	15	.10	117	.01	3	.97	.01	.08	2	185
0+50S 4E	1	40	34	73	.1	45	15	380	5.12	34	2	ND	3	9	1	2	2	21	.04	.08	30	11	.07	58	.01	3	.48	.01	.05	2	5
0+60S 4E	1	13	15	34	.1	15	5	169	2.44	19	2	ND	2	4	1	2	2	27	.02	.06	40	11	.05	36	.01	3	.72	.01	.04	2	15
0+70S 4E	1	33	35	90	.1	39	13	271	5.22	39	2	ND	7	4	1	2	2	25	.02	.05	32	29	.37	48	.01	4	1.77	.01	.06	2	60
0+80S 4E	1	22	15	40	.1	30	10	452	2.99	10	2	ND	2	3	1	2	2	18	.01	.05	32	7	.03	44	.01	3	.52	.01	.03	2	5
0+90S 4E	1	18	29	71	.1	25	13	591	4.97	11	2	ND	8	5	1	2	2	41	.05	.08	31	28	.48	60	.01	3	2.12	.01	.05	2	5
1S 4E	1	15	11	42	.1	19	7	551	3.09	12	2	ND	4	4	1	2	2	27	.03	.06	37	15	.13	54	.01	2	1.02	.01	.05	2	5
1+10S 4E	1	13	9	42	.1	16	6	704	2.51	20	2	ND	2	7	1	2	2	23	.10	.10	37	10	.07	59	.01	4	.75	.01	.08	2	5
1+20S 4E	1	22	16	47	.3	20	12	2127	3.30	22	2	ND	2	5	1	2	2	27	.04	.09	34	12	.08	103	.01	3	.70	.01	.05	2	5
1+30S 4E	1	25	26	76	.1	52	20	1448	6.45	39	2	ND	2	6	1	2	2	60	.02	.13	15	92	.69	49	.01	3	2.10	.01	.03	2	5
1+40S 4E	1	17	19	51	.1	25	9	569	3.46	18	2	ND	2	5	1	2	2	31	.03	.10	40	15	.12	61	.01	4	.91	.01	.06	2	5
1+50S 4E	1	15	20	37	.2	15	7	602	2.79	13	2	ND	2	4	1	2	2	31	.01	.09	27	17	.13	47	.01	3	1.11	.01	.06	2	15
1+60S 4E	1	9	10	29	.1	14	4	97	1.97	8	2	ND	2	6	1	2	2	31	.01	.07	34	12	.04	41	.01	3	.69	.01	.05	2	10
1+70S 4E	1	18	9	45	.1	25	11	1745	4.56	11	2	ND	4	4	1	2	2	40	.02	.10	31	27	.34	72	.01	3	1.55	.01	.03	2	5
1+80S 4E	1	16	28	41	.1	21	9	915	3.30	17	3	ND	2	5	1	2	2	30	.01	.07	32	15	.07	57	.01	3	.97	.01	.04	2	10
1+90S 4E	1	7	6	15	.1	9	4	128	1.3½	6	2	ND	4	3	1	2	2	16	.02	.05	47	7	.03	26	.01	3	.70	.01	.04	2	5
2S 4E	1	15	14	30	.1	16	6	734	2.82	23	2	ND	3	4	1	2	2	23	.03	.08	41	11	.10	45	.01	3	.99	.01	.04	2	5
2+10S 4E	1	16	23	56	.4	20	7	453	6.03	26	2	ND	8	4	1	2	2	35	.01	.07	31	25	.23	34	.01	3	1.77	.01	.04	2	45
2+20S 4E	1	44	15	45	.1	26	11	166	5.05	29	2	ND	6	3	1	2	2	19	.01	.05	33	11	.05	24	.01	3	.91	.01	.03	2	15
2+30S 4E	1	20	26	60	.1	23	9	190	5.90	16	4	ND	7	4	1	2	2	36	.01	.11	41	29	.43	39	.01	3	2.16	.01	.04	2	25
2+40S 4E	1	20	19	61	.1	22	10	472	5.16	6	2	ND	9	4	1	2	2	33	.01	.07	41	32	.61	34	.01	3	2.39	.01	.05	2	5
2+50S 4E	1	52	20	84	.3	33	18	536	6.48	5	2	ND	9	4	1	2	2	35	.02	.09	33	39	.78	44	.01	4	2.73	.01	.05	2	5
2+60S 4E	1	27	29	87	.1	30	14	514	6.60	2	2	ND	10	7	1	2	2	35	.06	.10	33	41	.92	40	.01	4	2.70	.01	.05	2	5
2+70S 4E	1	73	28	80	.1	36	40	2932	8.69	2	2	ND	7	19	1	2	2	49	.37	.20	18	30	.92	86	.01	3	2.63	.01	.05	2	5
2+80S 4E	1	26	12	71	.5	25	14	962	5.36	2	3	ND	3	7	1	2	2	41	.07	.13	22	27	.59	84	.01	3	2.08	.01	.05	2	5
2+90S 4E	1	33	130	103	.3	33	13	2170	5.11	28	2	ND	4	33	1	2	2	22	.54	.14	31	14	.12	104	.01	3	1.44	.01	.07	3	5
3S 4E	1	20	90	84	.4	22	12	1676	7.01	24	2	ND	3	16	1	2	2	32	.12	.11	22	15	.12	61	.01	3	1.31	.01	.04	2	5
3+10S 4E	1	44	20	68	.1	16	15	540	5.83	23	4	ND	2	8	1	3	2	41	.04	.09	19	10	.08	98	.01	3	.85	.01	.04	2	5
3+20S 4E	1	24	80	100	.4	29	13	3892	10.34	28	5	ND	4	11	1	2	2	33	.04	.13	22	17	.10	81	.01	2	1.31	.01	.03	35	5
3+30S 4E	1	12	37	40	.1	10	5	420	3.48	16	2	ND	2	11	1	2	2	23	.06	.07	21	10	.06	53	.01	3	.90	.01	.04	2	5
3+40S 4E	2	22	83	135	.6	40	19	6549	15.29	45	2	ND	6	64	1	2	2	35	1.15	.14	26	9	.48	194	.01	2	1.03	.01	.02	2	5
3+50S 4E	1	20	80	119	.3	29	17	3819	5.67	29	2	ND	3	30	1	2	2	22	.35	.12	25	10	.06	198	.01	4	1.07	.01	.03	2	5
3+60S 4E	1	66	28	78	.1	30	18	1006	7.83	15	2	ND	8	6	1	2	2	36	.02	.09	29	15	.18	53	.01	3	1.54	.01	.03	2	5
STD A-1/AU 0.5	1	30	39	179	.3	35	12	1014	2.82	10	2	ND	2	36	1	2	2	59	.57	.10	8	72	.73	277	.07	7	2.08	.02	.22	2	480

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
3+70S 4E	4	66	46	96	.5	29	18	4756	18.06	324	2	ND	4	6	1	2	2	46	.02	.16	14	14	.15	74	.01	2	1.11	.01	.03	2	285
3+80S 4E	1	15	23	37	.1	13	5	259	4.28	17	2	ND	2	6	1	2	2	36	.03	.06	22	23	.13	55	.01	4	1.32	.01	.03	2	5
3+90S 4E	1	35	32	53	.1	27	23	1904	6.37	9	2	ND	3	4	1	2	2	19	.02	.11	17	6	.05	46	.01	4	.70	.01	.02	2	5
4S 4E	1	20	15	39	.1	20	9	293	3.32	7	2	ND	2	3	1	2	2	22	.01	.05	34	8	.04	22	.01	3	.50	.01	.02	4	5
0S 8+50E	1	31	25	54	.4	33	18	819	4.42	15	5	ND	4	29	1	2	2	14	.41	.05	17	16	.35	50	.01	6	.85	.01	.04	2	10
0+10S 8+50E	1	24	26	60	.1	32	11	437	4.21	11	5	ND	3	23	1	2	2	35	.26	.05	24	30	.34	61	.01	4	1.33	.01	.05	2	5
0+20S 8+50E	1	43	34	52	.2	29	8	217	4.08	15	2	ND	4	7	1	2	2	29	.05	.05	27	23	.20	40	.01	4	.91	.01	.05	2	5
0+30S 8+50E	1	25	16	47	.1	29	10	214	3.91	6	4	ND	2	21	1	2	2	33	.24	.07	25	26	.25	39	.01	4	1.20	.01	.04	2	5
0+40S 8+50E	1	44	29	62	.1	51	14	278	4.57	9	7	ND	5	9	1	2	2	26	.08	.05	25	32	.61	44	.01	3	1.96	.01	.04	2	5
0+50S 8+50E	1	25	21	46	.1	25	8	260	4.27	4	2	ND	2	7	1	2	2	34	.05	.07	22	28	.31	37	.01	3	1.32	.01	.04	2	5
0+60S 8+50E	1	22	23	58	.5	24	10	446	4.36	5	4	ND	3	7	1	2	2	35	.06	.07	24	29	.34	72	.01	3	1.30	.01	.05	2	5
0+70S 8+50E	1	21	30	56	.4	21	8	486	4.37	3	2	ND	2	6	1	2	2	36	.03	.07	29	31	.26	50	.01	4	1.21	.01	.04	2	5
0+80S 8+50E	2	23	33	62	.2	23	7	231	4.63	8	3	ND	4	5	1	2	2	38	.02	.18	30	28	.18	44	.01	4	1.04	.01	.04	2	5
0+90S 8+50E	2	27	49	90	.1	31	9	309	5.56	11	4	ND	4	8	1	2	2	35	.06	.14	27	32	.29	44	.01	4	1.28	.01	.04	2	5
1S 8+50E	1	25	36	62	.2	29	9	217	4.28	26	3	ND	2	6	1	2	2	31	.02	.07	25	28	.26	33	.01	3	1.15	.01	.05	2	10
1+10S 8+50E	1	40	27	95	.1	40	17	571	4.11	40	2	ND	6	14	1	2	2	22	.13	.05	31	23	.37	59	.01	5	1.19	.01	.07	2	30
1+20S 8+50E	1	32	34	64	.1	31	10	258	4.00	20	3	ND	3	5	1	2	2	25	.03	.06	28	25	.26	43	.01	4	1.07	.01	.05	2	10
1+30S 8+50E	1	39	54	81	.4	52	24	855	4.42	40	2	ND	5	20	1	2	2	21	.35	.08	22	24	.37	86	.01	4	1.30	.01	.05	2	40
1+40S 8+50E	1	45	77	216	.4	65	21	642	4.49	29	2	ND	5	18	3	2	2	20	.27	.07	25	23	.36	66	.01	4	1.18	.01	.05	2	65
1+50S 8+50E	1	45	38	74	.3	63	28	1092	4.68	31	3	ND	7	17	1	2	2	21	.29	.08	24	33	.63	79	.01	3	1.49	.01	.05	2	35
1+60S 8+50E	1	37	34	72	.2	45	18	947	4.29	22	4	ND	4	24	1	2	2	21	.39	.08	22	22	.41	97	.01	5	1.22	.01	.06	2	10
1+70S 8+50E	1	43	40	98	.2	43	21	720	4.97	15	5	ND	4	30	1	2	2	31	.46	.12	18	27	.49	72	.01	5	1.89	.01	.05	2	15
1+80S 8+50E	1	38	38	66	.2	43	21	845	4.82	17	9	ND	5	10	1	2	2	25	.14	.10	21	27	.42	42	.01	5	1.50	.01	.04	2	15
1+90S 8+50E	1	39	34	60	.4	40	18	837	4.96	14	8	ND	5	6	1	2	2	25	.08	.08	23	30	.34	40	.01	5	1.27	.01	.04	2	10
2S 8+50E	1	28	33	52	.3	32	11	364	4.70	23	2	ND	2	9	1	4	2	33	.15	.07	25	30	.23	39	.01	4	.95	.01	.03	2	20
2+10S 8+50E	1	35	25	65	.3	53	20	612	6.35	35	2	ND	5	13	1	3	2	49	.25	.08	19	77	.56	41	.01	4	1.57	.01	.05	2	5
2+20S 8+50E	1	36	22	66	.1	44	15	243	5.20	19	2	ND	9	8	1	2	2	25	.12	.03	34	34	.51	44	.01	3	1.45	.01	.04	2	15
2+30S 8+50E	1	37	58	52	.1	38	13	254	5.86	17	5	ND	5	11	1	2	2	24	.11	.08	21	26	.21	59	.01	4	1.25	.01	.04	2	30
2+40S 8+50E	1	35	27	68	.3	41	17	495	4.28	20	2	ND	6	25	1	2	2	19	.48	.05	20	23	.34	55	.01	4	1.13	.01	.05	2	40
2+50S 8+50E	1	29	22	56	.1	34	11	267	4.91	21	5	ND	8	7	1	2	2	28	.12	.05	28	30	.35	43	.01	3	1.33	.01	.05	2	15
2+60S 8+50E	1	51	27	75	.1	62	27	367	4.59	20	4	ND	9	5	1	2	2	22	.04	.04	30	36	.60	37	.01	4	2.04	.01	.04	2	30
2+70S 8+50E	1	48	33	81	.1	75	34	589	5.17	32	4	ND	10	9	1	2	2	26	.11	.05	31	54	.80	37	.01	3	2.10	.01	.05	2	40
2+80S 8+50E	1	44	41	82	.1	65	26	1389	6.38	28	3	ND	9	20	1	2	2	18	.31	.07	23	20	.39	76	.01	4	1.02	.01	.04	2	15
2+90S 8+50E	1	22	23	52	.3	34	13	655	4.24	20	2	ND	5	36	1	2	2	24	.45	.06	19	29	.29	88	.01	4	1.12	.01	.05	2	10
3S 8+50E	1	39	44	84	.3	44	24	1316	5.67	27	4	ND	4	58	1	2	2	26	.87	.12	15	33	.43	129	.01	5	1.62	.01	.04	2	25
3+10S 8+50E	1	47	74	116	.3	58	33	1485	6.13	27	6	ND	8	24	1	2	2	24	.25	.10	18	38	.38	86	.01	4	2.25	.01	.04	2	35
3+20S 8+50E	1	33	38	63	.2	25	11	473	3.75	27	2	ND	2	6	1	4	2	27	.04	.09	33	12	.07	45	.01	5	.52	.01	.03	2	15
3+30S 8+50E	1	48	63	79	.4	35	22	1400	4.72	37	2	ND	4	15	1	2	2	23	.21	.12	22	22	.31	44	.01	5	1.14	.01	.04	2	15
STD A-1/AU 0.5	1	30	39	184	.3	36	13	1039	2.83	9	2	ND	2	36	1	2	2	58	.60	.10	8	76	.75	276	.07	8	2.06	.01	.22	2	500

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	Aut ppb
3+40S 8+50E	1	40	45	57	.2	28	12	521	4.23	20	2	ND	2	4	1	4	2	29	.02	.09	33	17	.10	27	.01	3	.61	.01	.04	2	10
3+50S 8+50E	1	40	49	56	.2	27	10	496	5.23	22	2	ND	2	7	1	2	2	29	.08	.27	23	20	.17	51	.01	3	.75	.01	.05	2	5
3+60S 8+50E	1	26	23	42	.3	19	7	235	2.61	26	2	ND	2	7	1	3	2	23	.10	.10	36	9	.06	25	.01	3	.37	.01	.05	2	5
3+70S 8+50E	2	26	20	39	.1	18	7	166	2.54	18	2	ND	2	6	1	3	2	22	.09	.06	37	8	.04	31	.01	3	.40	.01	.05	2	5
3+80S 8+50E	2	33	29	45	.1	22	8	140	2.80	21	2	ND	2	4	1	2	2	26	.03	.05	35	8	.04	25	.01	3	.38	.01	.04	2	5
3+90S 8+50E	1	28	38	53	.1	23	9	412	3.68	23	2	ND	4	7	1	2	2	30	.09	.06	30	13	.10	54	.01	4	.61	.01	.05	2	20
4S 8+50E	1	32	32	74	.1	36	15	408	4.93	43	2	ND	5	5	1	2	2	29	.03	.06	24	30	.33	53	.01	3	1.22	.01	.06	2	10
0S 9E	1	42	39	95	.1	52	20	360	4.38	6	5	ND	10	13	1	3	2	32	.08	.03	31	32	.52	163	.02	3	1.39	.01	.06	2	15
0+10S 9E	1	30	22	70	.1	25	10	285	3.87	2	2	ND	2	30	1	2	2	25	.43	.05	20	21	.19	100	.01	3	.87	.01	.05	2	10
0+20S 9E	1	25	25	39	.1	17	6	109	3.51	2	2	ND	2	33	1	2	2	25	.34	.05	21	16	.14	65	.01	2	.75	.01	.03	2	5
0+30S 9E	1	35	21	70	.1	30	19	431	4.14	2	4	ND	7	7	1	2	2	16	.04	.05	19	18	.25	62	.01	2	1.05	.01	.04	2	5
0+40S 9E	1	35	44	93	.1	30	17	644	4.56	4	3	ND	5	6	1	2	2	25	.02	.07	21	23	.23	62	.01	3	1.15	.01	.04	2	5
0+50S 9E	1	37	51	77	.1	37	14	288	6.09	4	3	ND	6	7	1	2	2	24	.06	.06	25	28	.31	43	.01	3	1.44	.01	.03	2	10
0+60S 9E	1	33	22	57	.1	33	11	320	3.92	4	2	ND	3	13	1	2	2	21	.14	.06	28	18	.14	41	.01	3	.86	.01	.03	2	5
0+70S 9E	1	33	52	70	.1	32	16	460	7.56	2	8	ND	4	8	1	2	2	27	.04	.10	17	28	.20	47	.01	2	1.37	.01	.03	2	5
0+80S 9E	1	37	65	88	.3	37	26	779	4.78	3	2	ND	6	5	1	2	2	20	.02	.08	18	24	.25	40	.01	3	1.57	.01	.04	2	5
0+90S 9E	1	28	23	56	.1	29	11	308	3.60	12	2	ND	4	33	1	2	2	15	.38	.07	17	15	.26	67	.01	3	.83	.01	.04	2	5
1S 9E	1	44	58	78	.1	39	26	1357	4.61	21	2	ND	7	5	1	2	2	14	.03	.09	27	15	.23	22	.01	3	.95	.01	.03	2	15
1+10S 9E	1	50	36	90	.1	45	26	824	5.35	21	2	ND	6	5	1	2	2	16	.04	.08	21	17	.29	34	.01	4	1.05	.01	.05	2	45
1+20S 9E	1	31	21	57	.1	31	12	361	3.71	23	4	ND	4	8	1	2	2	21	.06	.05	26	17	.22	38	.01	3	.90	.01	.05	2	20
1+30S 9E	1	47	27	82	.1	42	16	347	4.56	26	2	ND	6	5	1	2	2	15	.02	.07	28	15	.24	27	.01	3	.76	.01	.03	2	5
1+40S 9E	1	50	31	73	.1	43	24	750	4.83	26	2	ND	7	4	1	2	2	16	.02	.06	27	17	.29	25	.01	4	1.07	.01	.04	2	5
1+50S 9E	1	46	31	69	.2	40	16	425	4.88	23	2	ND	7	3	1	2	2	15	.01	.06	29	17	.30	22	.01	3	1.00	.01	.03	2	5
1+60S 9E	1	23	27	55	.1	25	10	782	4.17	22	2	ND	2	5	1	3	2	28	.04	.06	27	19	.11	73	.01	3	.76	.01	.05	2	45
1+70S 9E	1	32	36	60	.1	32	12	541	4.68	16	3	ND	2	6	1	2	2	28	.06	.07	22	23	.27	48	.01	3	1.12	.01	.04	2	55
1+80S 9E	1	39	40	72	.1	34	12	451	5.01	17	2	ND	2	11	1	2	2	29	.14	.08	21	23	.24	73	.01	3	1.07	.01	.05	2	30
1+90S 9E	1	49	46	85	.4	46	19	1351	4.37	16	3	ND	4	30	1	2	2	24	.43	.09	18	22	.36	81	.01	4	1.43	.01	.06	2	30
2S 9E	1	41	46	71	.1	37	19	1173	4.76	15	2	ND	4	29	1	2	3	28	.50	.10	18	27	.44	65	.01	4	1.44	.01	.04	2	15
2+10S 9E	1	36	40	65	.2	33	12	497	5.35	23	2	ND	2	23	1	2	2	34	.40	.09	19	27	.30	58	.01	3	1.04	.01	.04	2	125
2+20S 9E	1	36	60	71	.1	34	16	737	6.17	20	2	ND	2	6	1	2	3	35	.03	.11	19	30	.26	47	.01	3	1.17	.01	.05	2	50
2+30S 9E	1	33	34	65	.5	33	15	871	5.46	19	2	ND	2	9	1	2	2	35	.09	.15	21	31	.22	29	.01	3	1.05	.01	.03	2	75
2+40S 9E	1	39	42	78	.4	41	16	583	5.92	23	2	ND	4	8	1	3	2	29	.10	.11	19	35	.36	53	.01	3	1.28	.01	.04	2	55
2+50S 9E	1	34	46	65	.1	37	13	357	5.26	20	5	ND	4	4	1	2	2	27	.02	.09	21	29	.31	31	.01	3	1.19	.01	.05	2	30
2+60S 9E	1	38	39	69	.2	39	16	695	5.19	15	2	ND	5	14	1	2	2	25	.20	.08	19	27	.30	58	.01	3	1.18	.01	.05	2	20
2+70S 9E	1	29	24	61	.1	32	11	330	4.77	19	2	ND	4	7	1	2	2	34	.05	.08	24	28	.21	39	.01	4	.85	.01	.05	2	30
2+80S 9E	1	37	66	91	.1	45	18	878	5.56	18	3	ND	6	9	1	2	2	30	.08	.07	24	36	.35	70	.01	3	2.11	.01	.04	2	30
2+90S 9E	1	30	42	72	.1	26	13	727	4.88	15	2	ND	2	42	1	2	2	36	.58	.07	18	24	.26	81	.01	3	1.12	.01	.04	2	15
STD A-1/AU 0.5	1	30	38	182	.3	35	13	1031	2.80	9	2	ND	2	36	1	2	2	60	.58	.10	8	72	.73	275	.07	7	2.05	.02	.20	2	485

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
3S 9E	1	29	49	60	.1	29	13	697	5.28	15	2	ND	2	41	1	2	2	35	.65	.10	10	22	.26	58	.01	3	1.12	.01	.01	2	20
3+10S 9E	1	34	45	68	.1	32	16	1015	4.40	10	2	ND	2	36	1	2	2	23	.54	.10	10	23	.24	39	.01	3	1.03	.01	.02	2	25
3+20S 9E	1	39	69	84	.1	31	22	958	5.41	24	4	ND	4	6	1	2	2	25	.06	.09	13	25	.29	28	.01	3	1.32	.01	01	2	150
3+30S 9E	1	38	45	66	.1	35	19	693	5.25	19	3	ND	3	18	1	2	2	26	.20	.11	12	24	.28	45	.01	3	1.27	.01	.02	2	15
3+40S 9E	1	32	67	97	.1	39	24	1064	5.94	11	2	ND	5	11	1	2	2	24	.13	.09	11	28	.28	37	.01	4	2.23	.01	.02	2	35
3+50S 9E	1	31	24	46	.1	22	9	398	3.51	12	2	ND	3	6	1	2	2	22	.04	.05	17	10	.05	40	.01	3	.44	.01	.01	2	50
3+60S 9E	1	34	36	56	.1	26	10	501	5.30	11	2	ND	2	6	1	2	2	29	.07	.07	16	17	.13	43	.01	3	.72	.01	.01	2	25
3+70S 9E	1	24	31	62	1.0	21	9	2506	2.98	19	3	ND	2	8	1	2	2	27	.10	.08	14	14	.08	155	.01	3	.48	.01	.02	2	10
3+80S 9E	1	31	28	56	1.1	26	10	428	3.65	21	2	ND	2	5	1	2	2	22	.05	.08	17	18	.14	28	.01	3	.64	.01	.02	2	5
3+90S 9E	1	35	59	67	1.0	42	18	1402	3.81	32	2	ND	3	10	1	2	2	24	.11	.08	16	30	.30	95	.01	3	1.03	.01	.02	2	10
4S 9E	1	28	42	49	.5	25	9	505	4.15	30	2	ND	2	5	1	2	2	24	.06	.09	15	17	.13	37	.01	2	.68	.01	.02	2	30

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH:253-3158 TELEX:04-53124

DATE RECEIVED AUG 27 1983

DATE REPORTS MAILED Aug 31/83

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : SOIL - DRIED AT 60 DEG C., -80 MESH.
AU* - 10 GM, IGNITED, HOT AQUA REGIA LEACH MIBK EXTRACTION, AA ANALYSIS.

ASSAYER DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT # CUNNINGHAM GROUP-C.GRID FILE 83-1864 PAGE# 1

SAMPLE	AU* PPB
2+50N 0E	5
2+40N 0E	5
2+30N 0E	5
2+20N 0E	5
2+10N 0E	5
2N 0E	5
1+90N 0E	5
1+80N 0E	5
1+70N 0E	5
1+60N 0E	5
1+50N 0E	5
1+40N 0E	45
1+30N 0E	10
1+20N 0E	5
1+10N 0E	5
1N 0E	5
0+90N 0E	5
0+80N 0E	10
0+70N 0E	15
0+60N 0E	5
0+50N 0E	20
0+40N 0E	5
0+30N 0E	10
0+20N 0E	5
0+10N 0E	5
0N 0E	5
2+50N 0+50E	5
2+40N 0+50E	5
2+30N 0+50E	5
2+20N 0+50E	5
2+10N 0+50E	5
2N 0+50E	5
1+90N 0+50E	15
1+80N 0+50E	10
1+70N 0+50E	5
1+60N 0+50E	5
1+50N 0+50E	5

SAMPLE	AU* PPB
1+40N 0+50E	5
1+30N 0+50E	5
1+20N 0+50E	5
1+10N 0+50E	5
1N 0+50E	5
0+90N 0+50E	5
0+80N 0+50E	5
0+70N 0+50E	5
0+60N 0+50E	5
0+50N 0+50E	5
0+40N 0+50E	5
0+30N 0+50E	5
0+20N 0+50E	5
0+10N 0+50E	5
0N 0+50E	5
2+50N 0+75E	5
2+40N 0+75E	5
2+30N 0+75E	5
2+20N 0+75E	5
2+10N 0+75E	5
2N 0+75E	5
1+90N 0+75E	5
1+80N 0+75E	5
1+70N 0+75E	10
1+60N 0+75E	35
1+50N 0+75E	5
1+40N 0+75E	5
1+30N 0+75E	5
1+20N 0+75E	5
1+10N 0+75E	5
1N 0+75E	5
0+90N 0+75E	5
0+80N 0+75E	5
0+70N 0+75E	5
0+60N 0+75E	5
0+50N 0+75E	5
0+40N 0+75E	5

SAMPLE	AU* PPB
0+30N 0+75E	80
0+20N 0+75E	5
0+10N 0+75E	5
0N 0+75E	5
2+50N 1E	5
2+40N 1E	5
2+30N 1E	5
2+20N 1E	5
2+10N 1E	5
2N 1E	5
1+90N 1E	5
1+80N 1E	5
1+70N 1E	5
1+60N 1E	5
1+50N 1E	5
1+40N 1E	5
1+30N 1E	5
1+20N 1E	5
1+10N 1E	5
1N 1E	10
0+90N 1E	5
0+80N 1E	5
0+70N 1E	5
0+60N 1E	5
0+50N 1E	15
0+40N 1E	5
0+30N 1E	5
0+20N 1E	5
0+10N 1E	5
0N 1E	5
2+50N 1+25E	5
2+40N 1+25E	5
2+30N 1+25E	5
2+20N 1+25E	5
2+10N 1+25E	460
2N 1+25E	5
1+90N 1+25E	5

SAMPLE	AU* PPB
1+80N 1+25E	690
1+70N 1+25E	60
1+60N 1+25E	5
1+50N 1+25E	5
1+40N 1+25E	5
1+30N 1+25E	5
1+20N 1+25E	5
1+10N 1+25E	5
1N 1+25E	5
0+90N 1+25E	5
0+80N 1+25E	5
0+70N 1+25E	5
0+60N 1+25E	30
0+50N 1+25E	5
0+40N 1+25E	5
0+30N 1+25E	5
0+20N 1+25E	5
0+10N 1+25E	5
0N 1+25E	5
2+50N 1+50E	140
2+40N 1+50E	5
2+30N 1+50E	5
2+20N 1+50E	5
2+10N 1+50E	5
2N 1+50E	5
1+90N 1+50E	5
1+80N 1+50E	55
1+70N 1+50E	140
1+60N 1+50E	5
1+50N 1+50E	5
1+40N 1+50E	25
1+30N 1+50E	5
1+20N 1+50E	5
1+10N 1+50E	5
1N 1+50E	5
0+90N 1+50E	5
0+80N 1+50E	5

SAMPLE	AU* PPB
0+70N 1+50E	5
0+60N 1+50E	5
0+50N 1+50E	5
0+40N 1+50E	5
0+30N 1+50E	5
0+20N 1+50E	5
0+10N 1+50E	10
0N 1+50E	5
2+50N 4+50E	15
2+40N 4+50E	25
2+30N 4+50E	20
2+20N 4+50E	15
2+10N 4+50E	50
2N 4+50E	15
1+90N 4+50E	10
1+80N 4+50E	20
1+70N 4+50E	15
1+60N 4+50E	15
1+50N 4+50E	20
1+40N 4+50E	25
1+30N 4+50E	10
1+20N 4+50E	30
1+10N 4+50E	50
1N 4+50E	20
0+90N 4+50E	10
0+80N 4+50E	10
0+70N 4+50E	15
0+60N 4+50E	10
0+50N 4+50E	5
0+40N 4+50E	10
0+30N 4+50E	5
0+20N 4+50E	5
0+10N 4+50E	5
0N 4+50E	5
2+50N 5E	35
2+40N 5E	75
2+30N 5E	25

SAMPLE	AU* PPB
2+20N 5E	40
2+10N 5E	15
2N 5E	25
1+90N 5E	35
1+80N 5E	20
1+70N 5E	25
1+60N 5E	15
1+50N 5E	40
1+40N 5E	105
1+30N 5E	20
1+20N 5E	85
1+10N 5E	25
1N 5E	15
0+90N 5E	5
0+80N 5E	10
0+70N 5E	5
0+60N 5E	10
0+50N 5E	5
0+40N 5E	5
0+30N 5E	5
0+20N 5E	5
0+10N 5E	10
0N 5E	5

SAMPLE	AU* PPB
0S 0+50E	15
0+20S 0+50E	25
0+50S 0+50E	40
0+60S 0+50E	5
0+70S 0+50E	15
0+80S 0+50E	10
0+90S 0+50E	20
1S 0+50E	5
1+10S 0+50E	10
1+20S 0+50E	5
1+30S 0+50E	15
1+40S 0+50E	10
1+50S 0+50E	30
1+60S 0+50E	15
1+70S 0+50E	35
1+80S 0+50E	10
1+90S 0+50E	25
2S 0+50E	5
2+10S 0+50E	5
2+20S 0+50E	5
2+30S 0+50E	5
2+40S 0+50E	5
2+50S 0+50E	10
2+60S 0+50E	75
2+70S 0+50E	5
2+80S 0+50E	5
2+90S 0+50E	70
3S 0+50E	135
3+10S 0+50E	295
3+20S 0+50E	5
3+30S 0+50E	5
3+40S 0+50E	10
3+50S 0+50E	5
3+60S 0+50E	5

SAMPLE	AU* PPB
3+70S 0+50E	10
3+80S 0+50E	5
3+90S 0+50E	5
4S 0+50E	5
0+70S 1E	5
0+80S 1E	290
0+90S 1E	50
1S 1E	35
1+10S 1E	5
1+20S 1E	5
1+30S 1E	40
1+40S 1E	20
1+50S 1E	50
1+60S 1E	20
1+70S 1E	25
1+80S 1E	130
1+90S 1E	20
2S 1E	10
2+10S 1E	5
2+20S 1E	10
2+30S 1E	5
2+40S 1E	5
2+50S 1E	10
2+60S 1E	5
2+70S 1E	40
2+80S 1E	20
2+90S 1E	35
3S 1E	55
3+10S 1E	25
3+20S 1E	40
3+30S 1E	15

SAMPLE	AU* PPB
3+40S 1E	5
3+50S 1E	5
3+60S 1E	5
3+70S 1E	5
3+80S 1E	10
3+90S 1E	5
4S 1E	5
0S 1+50E	35
0+10S 1+50E	10
0+20S 1+50E	15
0+30S 1+50E	10
0+40S 1+50E	30
0+50S 1+50E	25
0+60S 1+50E	10
0+70S 1+50E	5
0+80S 1+50E	5
0+90S 1+50E	20
1S 1+50E	15
1+10S 1+50E	35
1+20S 1+50E	25
1+30S 1+50E	15
1+40S 1+50E	20
1+50S 1+50E	10
1+60S 1+50E	170
1+70S 1+50E	205
1+80S 1+50E	15
1+90S 1+50E	10
2S 1+50E	15
2+10S 1+50E	215
2+20S 1+50E	30
2+30S 1+50E	55
2+40S 1+50E	5
2+50S 1+50E	5
2+60S 1+50E	5
2+70S 1+50E	5
2+80S 1+50E	5
2+90S 1+50E	10

SAMPLE	AU* PPB
3S 1+50E	15
3+10S 1+50E	175
3+20S 1+50E	25
3+30S 1+50E	5
3+40S 1+50E	60
3+50S 1+50E	10
3+60S 1+50E	5
3+70S 1+50E	5
3+80S 1+50E	215
3+90S 1+50E	5
4S 1+50E	5
0S 2E	10
0+10S 2E	5
0+20S 2E	5
0+30S 2E	75
0+40S 2E	5
0+50S 2E	15
0+60S 2E	15
0+70S 2E	15
0+80S 2E	5
0+90S 2E	5
1S 2E	5
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1+30S 2E	30
1+40S 2E	795
1+50S 2E	5
1+60S 2E	5
1+70S 2E	5
1+80S 2E	825
1+90S 2E	190
2S 2E	10
2+10S 2E	15
2+20S 2E	50
2+30S 2E	205
2+40S 2E	950
2+50S 2E	210

SAMPLE	AU* PPB
2+60S 2E	5
2+70S 2E	5
2+80S 2E	5
2+90S 2E	10
3S 2E	5
3+10S 2E	60
3+20S 2E	30
3+30S 2E	400
3+40S 2E	5
3+50S 2E	20
3+60S 2E	5
3+70S 2E	5
3+80S 2E	5
3+90S 2E	5
4S 2E	40
0S 2+50E	100
0+10S 2+50E	155
0+20S 2+50E	20
0+30S 2+50E	30
0+40S 2+50E	10
0+50S 2+50E	10
0+60S 2+50E	25
0+70S 2+50E	5
0+80S 2+50E	30
0+90S 2+50E	95
1S 2+50E	5
1+10S 2+50E	10
1+20S 2+50E	5
1+30S 2+50E	15
1+40S 2+50E	10
1+50S 2+50E	20
1+60S 2+50E	10
1+70S 2+50E	10
1+80S 2+50E	225
1+90S 2+50E	40
2S 2+50E	25
2+10S 2+50E	5

SAMPLE	AU* PPB
2+20S 2+50E	5
2+30S 2+50E	5
2+40S 2+50E	10
2+50S 2+50E	5
2+60S 2+50E	35
2+70S 2+50E	5
2+80S 2+50E	5
2+90S 2+50E	5
3S 2+50E	5
3+10S 2+50E	5
3+20S 2+50E	5
3+30S 2+50E	5
3+40S 2+50E	5
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3+60S 2+50E	5
3+70S 2+50E	10
3+80S 2+50E	5
3+90S 2+50E	5
4S 2+50E	35
0S 3E	45
0+10S 3E	20
0+20S 3E	40
0+30S 3E	100
0+40S 3E	25
0+50S 3E	65
0+60S 3E	30
0+70S 3E	35
0+80S 3E	10
0+90S 3E	5
1S 3E	5
1+10S 3E	10
1+20S 3E	5
1+30S 3E	45
1+40S 3E	35
1+50S 3E	15
1+60S 3E	205
1+70S 3E	125

SAMPLE	AU* PPB
1+80S 3E	20
1+90S 3E	5
2S 3E	10
2+10S 3E	5
2+20S 3E	40
2+30S 3E	10
2+40S 3E	15
2+50S 3E	25
2+60S 3E	30
2+70S 3E	5
2+80S 3E	5
2+90S 3E	5
3S 3E	10
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3+40S 3E	15
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3+60S 3E	115
3+70S 3E	15
3+80S 3E	10
3+90S 3E	5
4S 3E	5
0S 3+50E	25
0+10S 3+50E	195
0+20S 3+50E	10
0+30S 3+50E	120
0+40S 3+50E	70
0+50S 3+50E	15
0+60S 3+50E	25
0+70S 3+50E	10
0+80S 3+50E	150
0+90S 3+50E	45
1S 3+50E	20
1+10S 3+50E	10
1+20S 3+50E	15
1+30S 3+50E	80

SAMPLE	AU* PPB
1+40S 3+50E	10
1+50S 3+50E	145
1+60S 3+50E	5
1+70S 3+50E	10
1+80S 3+50E	75
1+90S 3+50E	100
2S 3+50E	20
2+10S 3+50E	70
2+20S 3+50E	5
2+30S 3+50E	15
2+40S 3+50E	35
2+50S 3+50E	5
2+60S 3+50E	10
2+70S 3+50E	5
2+80S 3+50E	10
2+90S 3+50E	50
3S 3+50E	15
3+10S 3+50E	20
3+20S 3+50E	10
3+30S 3+50E	5
3+40S 3+50E	10
3+50S 3+50E	5
3+60S 3+50E	15
3+70S 3+50E	5
3+80S 3+50E	5
3+90S 3+50E	5
4S 3+50E	5
0S 4+50E	5
0+10S 4+50E	5
0+20S 4+50E	20
0+30S 4+50E	15
0+40S 4+50E	450
0+50S 4+50E	25
0+60S 4+50E	10
0+70S 4+50E	135
0+80S 4+50E	10
0+90S 4+50E	20

SAMPLE	AU* PPB
1S 4+50E	5
1+10S 4+50E	25
1+20S 4+50E	5
1+30S 4+50E	5
1+40S 4+50E	5
1+50S 4+50E	5
1+60S 4+50E	5
1+70S 4+50E	5
1+80S 4+50E	5
1+90S 4+50E	5
2S 4+50E	135
2+10S 4+50E	65
2+20S 4+50E	5
2+30S 4+50E	5
2+40S 4+50E	5
2+50S 4+50E	70
2+60S 4+50E	15
2+70S 4+50E	255
2+80S 4+50E	40
2+90S 4+50E	5
3S 4+50E	5
3+10S 4+50E	15
3+20S 4+50E	5
3+30S 4+50E	5
3+40S 4+50E	25
3+50S 4+50E	5
3+60S 4+50E	5
3+70S 4+50E	5
3+80S 4+50E	5
3+90S 4+50E	5
4S 4+50E	5
0S 5E	15
0+10S 5E	5
0+20S 5E	5
0+30S 5E	10
0+40S 5E	80
0+50S 5E	30

SAMPLE	AU* PPB
0+60S 5E	20
0+70S 5E	5
0+80S 5E	10
0+90S 5E	20
1S 5E	15
1+10S 5E	10
1+20S 5E	5
1+30S 5E	5
1+40S 5E	10
1+50S 5E	5
1+60S 5E	20
1+70S 5E	5
1+80S 5E	10
1+90S 5E	85
2S 5E	65
2+10S 5E	5
2+20S 5E	5
2+30S 5E	5
2+40S 5E	5
2+50S 5E	5
2+60S 5E	30
2+70S 5E	40
2+80S 5E	20
2+90S 5E	5
3S 5E	5
3+10S 5E	5
3+20S 5E	5
3+30S 5E	5
3+40S 5E	10
3+50S 5E	5
3+60S 5E	5
3+70S 5E	20
3+80S 5E	5
3+90S 5E	5
4S 5E	5
0S 5+50E	10
0+10S 5+50E	5
0+20S 5+50E	20

SAMPLE	AU* PPB
0+30S 5+50E	35
0+40S 5+50E	20
0+50S 5+50E	25
0+60S 5+50E	20
0+70S 5+50E	10
0+80S 5+50E	25
0+90S 5+50E	10
1S 5+50E	5
1+10S 5+50E	10
1+20S 5+50E	5
1+30S 5+50E	5
1+40S 5+50E	40
1+50S 5+50E	5
1+60S 5+50E	5
1+70S 5+50E	10
1+80S 5+50E	5
1+90S 5+50E	10
2S 5+50E	5
2+10S 5+50E	5
2+20S 5+50E	10
2+30S 5+50E	40
2+40S 5+50E	105
2+50S 5+50E	25
2+60S 5+50E	10
2+70S 5+50E	5
2+80S 5+50E	10
2+90S 5+50E	5
3S 5+50E	5
3+10S 5+50E	5
3+20S 5+50E	20
3+30S 5+50E	15
3+40S 5+50E	10
3+50S 5+50E	60
3+60S 5+50E	75
3+70S 5+50E	30
3+80S 5+50E	100
3+90S 5+50E	10
4S 5+50E	10

SAMPLE	AU* PPB
0S 6E	10
0+10S 6E	5
0+20S 6E	5
0+30S 6E	10
0+40S 6E	10
0+50S 6E	5
0+60S 6E	5
0+70S 6E	5
0+80S 6E	5
0+90S 6E	5
1S 6E	5
1+10S 6E	40
1+20S 6E	45
1+30S 6E	15
1+40S 6E	10
1+50S 6E	45
1+60S 6E	10
1+70S 6E	5
1+80S 6E	5
1+90S 6E	50
2S 6E	45
2+10S 6E	5
2+20S 6E	5
2+30S 6E	30
2+40S 6E	20
2+50S 6E	10
2+60S 6E	65
2+70S 6E	10
2+80S 6E	95
2+90S 6E	5
3S 6E	5
3+10S 6E	5
3+20S 6E	5
3+30S 6E	5
3+40S 6E	5
3+50S 6E	5
3+60S 6E	5

SAMPLE	AU* PPB
3+70S 6E	5
3+80S 6E	5
3+90S 6E	5
4S 6E	40
0S 7E	5
0+10S 7E	10
0+20S 7E	15
0+30S 7E	5
0+40S 7E	5
0+50S 7E	5
0+60S 7E	50
0+70S 7E	5
0+80S 7E	65
0+90S 7E	5
1S 7E	90
1+10S 7E	5
1+20S 7E	5
1+30S 7E	5
1+40S 7E	5
1+50S 7E	5
1+60S 7E	10
1+70S 7E	300
1+80S 7E	95
1+90S 7E	5
2S 7E	25
2+10S 7E	15
2+20S 7E	30
2+30S 7E	10
2+40S 7E	10
2+50S 7E	5
2+60S 7E	25
2+70S 7E	20
2+80S 7E	30
2+90S 7E	15
3S 7E	350
3+10S 7E	25
3+20S 7E	55

SAMPLE	AU* PPB
3+30S 7E	10
3+40S 7E	20
3+50S 7E	25
3+60S 7E	55
3+70S 7E	20
3+80S 7E	165
3+90S 7E	5
4S 7E	5
0S 7+50E	25
0+10S 7+50E	5
0+20S 7+50E	5
0+30S 7+50E	5
0+40S 7+50E	5
0+50S 7+50E	50
0+60S 7+50E	10
0+70S 7+50E	75
0+80S 7+50E	15
0+90S 7+50E	5
1S 7+50E	85
1+10S 7+50E	5
1+20S 7+50E	65
1+30S 7+50E	25
2+10S 7+50E	5
2+20S 7+50E	5
2+30S 7+50E	5
2+40S 7+50E	15
2+50S 7+50E	30
2+60S 7+50E	90
2+70S 7+50E	440
2+80S 7+50E	45

SAMPLE	AU* PPB
2+90S 7+50E	30
3S 7+50E	90
3+10S 7+50E	20
3+20S 7+50E	15
3+30S 7+50E	10
3+40S 7+50E	5
3+50S 7+50E	5
3+60S 7+50E	5
3+70S 7+50E	5
3+80S 7+50E	5
3+90S 7+50E	5
4S 7+50E	5
0S 8E	5
0+10S 8E	5
0+20S 8E	5
0+30S 8E	5
0+40S 8E	5
0+50S 8E	45
0+60S 8E	30
0+70S 8E	25
0+80S 8E	30
0+90S 8E	25
1S 8E	35
1+10S 8E	35
1+20S 8E	10
1+30S 8E	15
1+40S 8E	45
1+50S 8E	40
1+60S 8E	25
1+70S 8E	5
1+80S 8E	10
1+90S 8E	80
2S 8E	20
2+10S 8E	30
2+20S 8E	5
2+30S 8E	40
2+40S 8E	35

SAMPLE	AU* PPB
2+50S 8E	25
2+60S 8E	130
2+70S 8E	10
2+80S 8E	25
2+90S 8E	10
3S 8E	65
3+10S 8E	20
3+20S 8E	15
3+30S 8E	25
3+40S 8E	10
3+50S 8E	30
3+60S 8E	25
3+70S 8E	35
3+80S 8E	20
3+90S 8E	20
4S 8E	30

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
PH:253-3158 TELEX:04-53124

DATE RECEIVED AUG 29 1983

DATE REPORTS MAILED Sept 6/83

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : SOIL - DRIED AT 60 DEG C., -80 MESH.
AU* - 10 GM, IGNITED, HOT AQUA REGIA LEACH MIBK EXTRACTION, AA ANALYSIS.

ASSAYER _____ DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT # CUNNINGHAM C-GRID FILE # 83-1890 PAGE# 1

SAMPLE	AU* PPB
3+50N 1+50E	410
3+40N 1+50E	105
3+30N 1+50E	230
3+20N 1+50E	770
3+10N 1+50E	75
3N 1+50E	55
2+90N 1+50E	510
2+80N 1+50E	5
2+70N 1+50E	30
2+60N 1+50E	5
3+50N 2E	15
3+40N 2E	70
3+30N 2E	25
3+20N 2E	5
3+10N 2E	30
3N 2E	30
2+90N 2E	45
2+80N 2E	35
2+70N 2E	35
2+60N 2E	25
2+50N 2E	5
2+40N 2E	110
2+30N 2E	20
2+20N 2E	25
2+10N 2E	20
2N 2E	10
1+90N 2E	35
1+80N 2E	5
1+70N 2E	95
1+60N 2E	2250
1+50N 2E	50
1+40N 2E	30
1+30N 2E	15
1+20N 2E	5
1+10N 2E	20
1N 2E	10
0+90N 2E	25

SAMPLE	AU* PPB
0+80N 2E	15
0+70N 2E	60
0+60N 2E	130
0+50N 2E	15
0+40N 2E	15
0+30N 2E	30
0+20N 2E	635
0+10N 2E	5
0N 2E	10
3+50N 2+50E	10
3+40N 2+50E	30
3+30N 2+50E	20
3+20N 2+50E	35
3+10N 2+50E	15
3N 2+50E	5
2+90N 2+50E	10
2+80N 2+50E	75
2+70N 2+50E	15
2+60N 2+50E	30
2+50N 2+50E	30
2+40N 2+50E	35
2+30N 2+50E	15
2+20N 2+50E	5
2+10N 2+50E	5
2N 2+50E	25
1+90N 2+50E	10
1+80N 2+50E	70
1+70N 2+50E	25
1+60N 2+50E	25
1+50N 2+50E	20
1+40N 2+50E	45
1+30N 2+50E	10
1+20N 2+50E	40
1+10N 2+50E	30
1N 2+50E	35
0+90N 2+50E	70
0+80N 2+50E	125

SAMPLE	AU* PPB
0+70N 2+50E	5
0+60N 2+50E	25
0+50N 2+50E	280
0+40N 2+50E	30
0+30N 2+50E	15
0+20N 2+50E	40
0+10N 2+50E	50
0N 2+50E	10
2+50N 3E	5
2+40N 3E	5
2+30N 3E	10
2+20N 3E	10
2+10N 3E	5
2N 3E	5
1+90N 3E	5
1+80N 3E	5
1+70N 3E	5
1+60N 3E	15
1+50N 3E	20
1+40N 3E	40
1+30N 3E	10
1+20N 3E	15
1+10N 3E	5
1N 3E	5
0+90N 3E	10
0+80N 3E	5
0+70N 3E	5
0+60N 3E	25
0+50N 3E	25
0+30N 3E	15
0+20N 3E	15
0+10N 3E	5
0N 3E	10
2+50N 3+50E	5
2+40N 3+50E	5
2+30N 3+50E	40

SAMPLE	AU* PPB
2+20N 3+50E	15
2+10N 3+50E	10
2N 3+50E	30
1+90N 3+50E	5
1+80N 3+50E	80
1+70N 3+50E	5
1+60N 3+50E	5
1+50N 3+50E	25
1+40N 3+50E	5
1+30N 3+50E	20
1+20N 3+50E	15
1+10N 3+50E	10
1N 3+50E	10
0+90N 3+50E	5
0+80N 3+50E	55
0+70N 3+50E	35
0+60N 3+50E	30
0+50N 3+50E	15
0+40N 3+50E	25
0+30N 3+50E	5
0+20N 3+50E	25
0+10N 3+50E	5
0N 3+50E	5
2+50N 4E	15
2+40N 4E	10
2+30N 4E	5
2+20N 4E	25
2+10N 4E	5
2N 4E	10
1+90N 4E	25
1+80N 4E	15
1+70N 4E	10
1+60N 4E	5
1+50N 4E	5
1+40N 4E	5
1+30N 4E	10
1+20N 4E	5
1+10N 4E	25

SAMPLE	AU* PPB
1N 4E	5
0+90N 4E	10
0+80N 4E	10
0+70N 4E	20
0+60N 4E	15
0+50N 4E	5
0+40N 4E	5
0+30N 4E	10
0+20N 4E	15
0+10N 4E	5
0N 4E	5

SAMPLE	AU* PPB
0S 0E	15
0+10S 0E	5
0+20S 0E	5
0+30S 0E	25
0+40S 0E	10
0+50S 0E	15
0+60S 0E	10
0+70S 0E	20
0S 0+50E	5
0+10S 0+50E	5
0+20S 0+50E	55
0+30S 0+50E	10
0+40S 0+50E	5
0+50S 0+50E	15
0S 1E	5
0+10S 1E	5
0+20S 1E	5
0+30S 1E	10
0+40S 1E	20
0+50S 1E	60
0+60S 1E	10
0+70S 1E	45
0+80S 1E	15
0+90S 1E	20
1S 1E	25
1+10S 1E	50
1+20S 1E	100
1+30S 1E	30
0S 1+50E	50
0+10S 1+50E	25
0+20S 1+50E	5
0+30S 1+50E	20
0+40S 1+50E	20
0+50S 1+50E	15
0+60S 1+50E	10
0+70S 1+50E	20

SAMPLE	AU* PPB
0+80S 1+50E	55
0+90S 1+50E	30
1S 1+50E	50
1+10S 1+50E	15
1+20S 1+50E	1700
0S 2E	20
0+10S 2E	15
0+20S 2E	35
0+30S 2E	20
0+40S 2E	20
0+50S 2E	15
0+60S 2E	10
0+70S 2E	15
0+80S 2E	25
0+90S 2E	20
1S 2E	25
1+10S 2E	30
1+20S 2E	50
1+30S 2E	110
0S 2+50E	15
0+10S 2+50E	20
0+20S 2+50E	10
0+30S 2+50E	10
0+40S 2+50E	15
0+50S 2+50E	15
0+60S 2+50E	140
0+70S 2+50E	15
0+80S 2+50E	15
0+90S 2+50E	20
1S 2+50E	20
1+10S 2+50E	20
1+20S 2+50E	30
1+30S 2+50E	15
1+40S 2+50E	30
1+50S 2+50E	30
1+60S 2+50E	35

SAMPLE	AU* PPB
0S 3E	15
0+10S 3E	10
0+20S 3E	5
0+30S 3E	10
0+40S 3E	5
0+50S 3E	10
0+60S 3E	15
0+70S 3E	5
0+80S 3E	10
0+90S 3E	125
1S 3E	5
1+10S 3E	25
1+20S 3E	5
1+30S 3E	10
1+40S 3E	10
1+50S 3E	10
1+60S 3E	10
0S 3+50E	15
0+10S 3+50E	5
0+20S 3+50E	5
0+30S 3+50E	10
0+40S 3+50E	15
0+50S 3+50E	10
0+60S 3+50E	15
0+70S 3+50E	10
0+80S 3+50E	15
0+90S 3+50E	10
1S 3+50E	30
1+10S 3+50E	10
1+20S 3+50E	15
1+30S 3+50E	15
1+40S 3+50E	5
1+50S 3+50E	45
1+60S 3+50E	35
0S 4E	5
0+10S 4E	5
0+20S 4E	30

SAMPLE	AU* PPB
0+30S 4E	5
0+40S 4E	20
0+50S 4E	10
0+60S 4E	20
0+70S 4E	5
0+80S 4E	5
0+90S 4E	5
1S 4E	20
1+10S 4E	20
1+20S 4E	5
1+30S 4E	20
1+60S 4E	120
0S 4+50E	20
0+10S 4+50E	5
0+20S 4+50E	10
0+30S 4+50E	30
0+40S 4+50E	20
0+50S 4+50E	30
0+60S 4+50E	20
0+70S 4+50E	10
0+80S 4+50E	15
0+90S 4+50E	20
1S 4+50E	20
1+10S 4+50E	30
1+20S 4+50E	20
1+30S 4+50E	10
1+40S 4+50E	15
1+50S 4+50E	20
1+60S 4+50E	15
1+70S 4+50E	15
1+80S 4+50E	20
0S 5E	20
0+10S 5E	25
0+20S 5E	30
0+30S 5E	25

SAMPLE	AU* PPB
0+40S 5E	15
0+50S 5E	20
0+60S 5E	15
0+70S 5E	10
0+80S 5E	15
0+90S 5E	5
1S 5E	15
1+10S 5E	5
1+20S 5E	15
1+30S 5E	5
1+40S 5E	5
1+50S 5E	35
1+60S 5E	25
1+70S 5E	40
1+80S 5E	65
1+90S 5E	35
2S 5E	35
0S 5+50E	35
0+30S 5+50E	20
0+40S 5+50E	25
0+50S 5+50E	20
0+60S 5+50E	15
0+70S 5+50E	40
0+80S 5+50E	25
0+90S 5+50E	10
1S 5+50E	10
1+10S 5+50E	25
1+20S 5+50E	5
1+30S 5+50E	15
1+40S 5+50E	10
1+50S 5+50E	35
1+60S 5+50E	20
1+70S 5+50E	15
1+80S 5+50E	20
1+90S 5+50E	10
2S 5+50E	20

SAMPLE	AU* PPB
0S 6E	5
0+10S 6E	10
0+20S 6E	20
0+30S 6E	10
0+40S 6E	5
0+50S 6E	5
0+60S 6E	5
0+70S 6E	10
0+80S 6E	10
0+90S 6E	5
1S 6E	5
1+10S 6E	15
1+20S 6E	5
1+30S 6E	5
1+40S 6E	10
1+50S 6E	100
1+60S 6E	15
1+70S 6E	20
1+80S 6E	20
1+90S 6E	5
2S 6E	35
0S 6+50E	20
0+10S 6+50E	10
0+20S 6+50E	15
0+30S 6+50E	5
0+40S 6+50E	5
0+50S 6+50E	10
0+60S 6+50E	5
0+70S 6+50E	5
0+80S 6+50E	95
0+90S 6+50E	20
1S 6+50E	15
1+10S 6+50E	5
1+20S 6+50E	5
1+30S 6+50E	10
1+40S 6+50E	5
1+50S 6+50E	10

SAMPLE	AU* PPB
1+60S 6+50E	20
1+70S 6+50E	15
1+80S 6+50E	15
1+90S 6+50E	5
2S 6+50E	20
0S 7E	15
0+10S 7E	20
0+20S 7E	10
0+30S 7E	10
0+40S 7E	15
0+50S 7E	35
0+60S 7E	10
0+70S 7E	30
0+80S 7E	15
0+90S 7E	30
1S 7E	10
1+10S 7E	5
1+20S 7E	30
1+30S 7E	30
1+40S 7E	5
1+50S 7E	10
1+60S 7E	5
1+70S 7E	5
1+80S 7E	20
1+90S 7E	15
2S 7E	5
0S 7+50E	5
0+10S 7+50E	20
0+20S 7+50E	10
0+30S 7+50E	5
0+40S 7+50E	5
0+50S 7+50E	15
0+60S 7+50E	5
0+70S 7+50E	5
0+80S 7+50E	5
0+90S 7+50E	5
1S 7+50E	5

SAMPLE	AU* PPB
1+10S 7+50E	5
1+20S 7+50E	5
1+30S 7+50E	5
1+40S 7+50E	20
1+50S 7+50E	25
1+60S 7+50E	15
1+70S 7+50E	5
1+80S 7+50E	5
1+90S 7+50E	25
2S 7+50E	35
0S 8E	10
0+10S 8E	20
0+20S 8E	5
0+30S 8E	5
0+40S 8E	10
0+50S 8E	15
0+60S 8E	5
0+70S 8E	10
0+80S 8E	15
0+90S 8E	15
1S 8E	5
1+10S 8E	25
1+20S 8E	20
1+30S 8E	5
1+40S 8E	5
1+50S 8E	10
1+60S 8E	10
1+70S 8E	60
1+80S 8E	45
1+90S 8E	50
2S 8E	10

SAMPLE	AU* PPB
0S 6+50E	2550
0+10S 6+50E	5
0+20S 6+50E	45
0+30S 6+50E	295
0+40S 6+50E	10
0+50S 6+50E	40
0+60S 6+50E	35
0+70S 6+50E	5
0+80S 6+50E	10
0+90S 6+50E	5
1S 6+50E	5
1+10S 6+50E	35
1+20S 6+50E	15
1+30S 6+50E	20
1+40S 6+50E	5
1+50S 6+50E	5
1+60S 6+50E	5
1+70S 6+50E	5
1+80S 6+50E	5
1+90S 6+50E	10
2S 6+50E	10
2+10S 6+50E	25
2+20S 6+50E	10
2+30S 6+50E	200
2+40S 6+50E	5
2+50S 6+50E	5
2+60S 6+50E	10
2+70S 6+50E	10
2+80S 6+50E	5
2+90S 6+50E	5
3S 6+50E	5
3+10S 6+50E	5
3+20S 6+50E	5
3+30S 6+50E	5
3+40S 6+50E	5
3+50S 6+50E	5
3+60S 6+50E	15

SAMPLE	AU* PPB
3+70S 6+50E	10
3+80S 6+50E	5
3+90S 6+50E	15
4S 6+50E	40

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS, VANCOUVER B.C.
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DATE RECEIVED SEPT 20 1983

DATE REPORTS MAILED Sept 24/83

ICP GEOCHEMICAL ANALYSIS

A .500 GRAM SAMPLE IS DIGESTED WITH 3 ML OF 3:1:3 HCL TO HNO3 TO H2O AT 90 DEG.C. FOR 1 HOUR.
THE SAMPLE IS DILUTED TO 10 MLS WITH WATER.
THIS LEACH IS PARTIAL FOR: Ca,P,Mg,Al,Ti,La,Na,K,W,Ba,Si,Sr,Cr AND B. Au DETECTION 3 ppm.
AU* ANALYSIS BY AA FROM 10 GRAM SAMPLE.
SAMPLE TYPE - SOIL

ASSAYER _____ DEAN TOYE, CERTIFIED B.C. ASSAYER

IMPERIAL METALS PROJECT # 310990 FILE # 83-2217

SAMPLE	CU ppm	ZN ppm	AG ppm	AS ppm	SB ppm	Au* ppb
0S 3+25E	25	30	.1	35	2	240
0+10S 3+25E	14	65	.4	15	2	160
0+20S 3+25E	19	27	.1	20	2	25
0+30S 3+25E	17	65	.3	92	2	480
0+40S 3+25E	44	75	.1	24	2	85
0+50S 3+25E	16	140	.1	33	2	55
0+60S 3+25E	13	44	.1	79	2	10
0+70S 3+25E	22	60	.1	26	2	5
0+80S 3+25E	16	32	.1	16	2	10
0+90S 3+25E	14	25	.2	9	2	5
1S 3+25E	19	37	.1	15	2	15
1+10S 3+25E	9	24	.2	15	2	5
1+20S 3+25E	39	56	.4	56	3	5
1+30S 3+25E	14	30	.1	9	2	5
1+40S 3+25E	17	30	.1	13	2	5
1+50S 3+25E	22	40	.4	49	2	5
1+60S 3+25E	11	21	.1	5	2	5
1+70S 3+25E	14	40	.2	18	2	20
1+80S 3+25E	15	44	.1	24	2	25
1+90S 3+25E	16	62	.1	30	2	20
2S 3+25E	9	24	.1	7	2	10
2+10S 3+25E	11	38	.1	7	2	5
2+20S 3+25E	13	28	.3	5	2	5
2+30S 3+25E	10	27	.1	7	2	345
2+40S 3+25E	12	29	.1	24	2	30
2+50S 3+25E	7	18	.1	15	2	5
2+60S 3+25E	10	39	.1	8	2	5
2+70S 3+25E	11	19	.1	10	2	15
2+80S 3+25E	9	26	.2	11	2	10
2+90S 3+25E	6	22	.2	3	2	5
3S 3+25E	14	40	.3	7	2	5
3+10S 3+25E	12	35	.1	9	2	5
3+20S 3+25E	17	38	.1	22	2	10
3+30S 3+25E	16	40	.1	15	2	15
3+40S 3+25E	17	72	.1	17	2	5
3+50S 3+25E	18	58	.2	33	2	10
3+60S 3+25E	22	83	.6	31	2	5
STD A-1/AU 0.5	30	185	.3	10	2	520

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SAMPLE	CU ppm	ZN ppm	AG ppm	AS ppm	SB ppm	Au* ppb
3+70S 3+25E	35	105	.6	17	2	5
3+80S 3+25E	16	47	.3	16	2	5
3+90S 3+25E	20	54	.3	15	2	5
4S 3+25E	21	102	.5	12	2	5
0S 3+75E	16	28	.3	22	2	5
0+10S 3+75E	18	21	.2	5	2	5
0+20S 3+75E	7	13	.3	15	2	10
0+30S 3+75E	47	111	.3	45	2	180
0+40S 3+75E	12	59	1.2	19	2	450
0+50S 3+75E	26	78	.2	36	2	10
0+60S 3+75E	14	33	.3	48	2	5
0+70S 3+75E	21	35	.1	12	2	5
0+80S 3+75E	11	35	.1	9	2	5
0+90S 3+75E	15	44	.2	11	2	25
1S 3+75E	17	29	.4	50	2	275
1+10S 3+75E	19	38	.3	24	2	70
1+20S 3+75E	11	61	.1	101	2	5
1+30S 3+75E	12	31	.2	8	2	5
1+40S 3+75E	18	35	.1	15	2	5
1+50S 3+75E	13	37	.4	8	2	5
1+60S 3+75E	17	36	.1	15	2	5
1+70S 3+75E	11	34	.1	25	2	5
1+80S 3+75E	10	23	.1	19	2	15
1+90S 3+75E	13	36	.3	177	2	315
2S 3+75E	15	40	.3	35	2	10
2+10S 3+75E	10	36	.4	15	2	35
2+20S 3+75E	8	36	.3	4	2	5
2+30S 3+75E	8	19	.2	6	2	5
2+40S 3+75E	17	54	.2	4	2	5
2+50S 3+75E	17	39	.2	6	2	5
2+60S 3+75E	62	52	.2	4	2	5
2+70S 3+75E	22	56	.1	8	2	5
2+80S 3+75E	10	36	.2	6	2	5
2+90S 3+75E	18	70	.6	19	2	180
3S 3+75E	27	136	2.4	51	2	5
3+10S 3+75E	20	77	.1	18	2	5
3+20S 3+75E	16	39	.1	17	2	5
STD A-1/AU 0.5	30	182	.3	9	2	530

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SAMPLE	CU ppm	ZN ppm	AG ppm	AS ppm	SB ppm	Au* ppb
3+30S 3+75E	12	84	.1	18	2	5
3+40S 3+75E	35	55	.1	29	2	5
3+50S 3+75E	27	40	.2	26	2	5
3+60S 3+75E	8	19	.2	8	2	5
3+70S 3+75E	24	49	.2	24	2	20
3+80S 3+75E	16	64	.2	26	2	5
3+90S 3+75E	7	21	.2	12	2	5
4S 3+75E	14	25	.2	9	2	5
0S 4+25E	36	53	.1	16	2	5
0+10S 4+25E	17	38	.1	21	2	5
0+20S 4+25E	31	44	.2	7	2	5
0+30S 4+25E	13	43	.1	14	2	5
0+40S 4+25E	19	118	.6	48	2	30
0+50S 4+25E	13	69	.5	35	2	10
0+60S 4+25E	14	39	.1	16	2	95
0+70S 4+25E	18	56	.2	22	2	10
0+80S 4+25E	17	45	.2	21	2	5
0+90S 4+25E	19	71	.6	29	2	5
1S 4+25E	16	36	.1	11	2	5
1+10S 4+25E	13	32	.1	20	2	5
1+20S 4+25E	31	54	.2	65	2	15
1+30S 4+25E	16	39	.2	18	2	5
1+40S 4+25E	23	47	.6	20	2	5
1+40S 4+25E	23	26	.2	10	2	5
1+60S 4+25E	8	28	.3	10	2	5
1+70S 4+25E	23	55	.1	76	2	5
1+80S 4+25E	7	23	.1	10	2	5
1+90S 4+25E	10	20	.4	49	2	285
2S 4+25E	6	16	.2	16	2	10
2+10S 4+25E	9	22	.1	12	2	5
2+20S 4+25E	7	37	.3	6	2	5
2+30S 4+25E	9	46	.4	4	2	5
2+50S 4+25E	68	85	.3	33	2	4100
2+60S 4+25E	28	65	.5	12	2	30
2+70S 4+25E	18	66	.8	8	2	10
2+80S 4+25E	19	68	.7	4	2	5
STD A-1/AU 0.5	30	183	.3	9	2	480

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SAMPLE	CU ppm	ZN ppm	AG ppm	AS ppm	SB ppm	Au* ppb
2+90S 4+25E	28	77	.1	10	2	5
3S 4+25E	70	74	.1	31	2	5
3+10S 4+25E	15	50	.1	17	2	5
3+20S 4+25E	8	33	.1	12	2	5
3+30S 4+25E	13	44	.1	30	2	5
3+40S 4+25E	14	47	.1	20	2	5
3+50S 4+25E	40	60	.1	20	2	5
3+60S 4+25E	16	65	.1	27	2	5
3+70S 4+25E	45	56	.1	22	2	5
3+80S 4+25E	46	68	.3	469	2	35
3+90S 4+25E	22	41	.1	21	2	5
4S 4+25E	112	60	.1	18	2	40
STD A-1	30	179	.3	11	2	-

APPENDIX B

SAMPLE PREPARATION AND METHOD OF ANALYSIS

ACME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
Telephone : 253 - 3158

GEOCHEMICAL LABORATORY METHODOLOGY - 1982

Sample Preparation

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis (AA and ICP)

0.5 gram samples are digested in hot dilute aqua regia in a boiling water bath and diluted to 10 ml with demineralized water. Extracted metals are determined by :

A. Atomic Absorption (AA)

Ag*, Bi*, Cd*, Co, Cu, Fe, Ga, In, Mn, Mo, Ni, Pb, Sb*, Tl, V, Zn
(* demotes with background correction.)

B. Inductively Coupled Argon Plasma (ICP)

Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cu, Cr, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Geochemical Analysis for Au

10.0 gram samples that have been ignited overnite at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb grahite AA.)

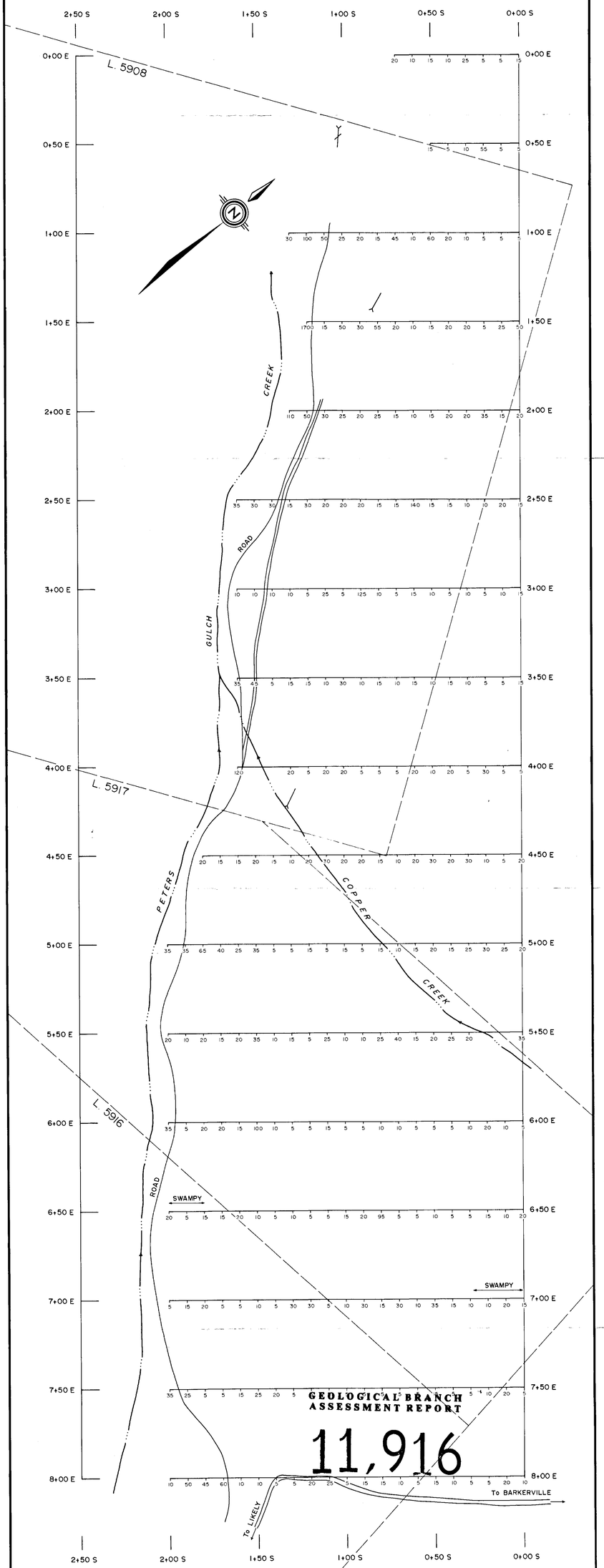
Geochemical Analysis for Au, Pd, Pt, Rh

10.0 - 30.0 gram samples are subjected to Fire Assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pb, Pt and Rh are determined in the solution by Atomic Absorption.

Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml. As is determined in the solution by Graphite Furnace Atomic Absorption (AA) or by Inductively Coupled Argon Plasma (ICP).



LEGEND

- Road
- Stream
- Claim Boundary
- Portal
- Portal (Caved)
- Geochemical Assay Value of B Soil Horizon - Au (ppb)

IMPERIAL METALS CORPORATION

CUNNINGHAM CREEK (1)

FIGURE 4 N.T.S. 93A/14

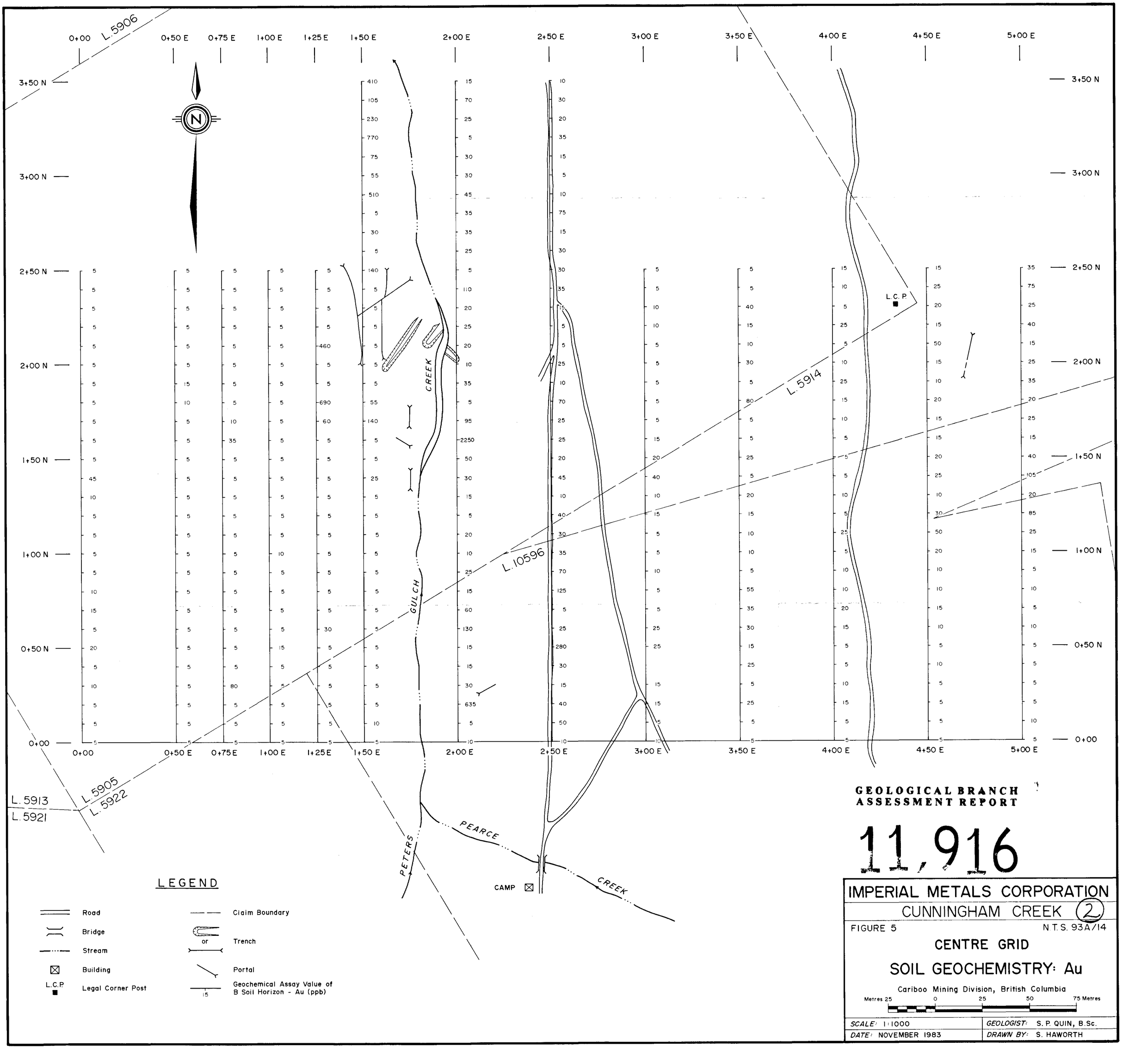
NORTH GRID

SOIL GEOCHEMISTRY: Au

Cariboo Mining Division, British Columbia

Metres 25 0 25 50 75 Metres

SCALE: 1:1000	GEOLOGIST: S. P. QUIN, B.Sc.
DATE: NOVEMBER 1983	DRAWN BY: S. HAWORTH



LEGEND

- Road
- Bridge
- Stream
- Building
- L.C.P — Legal Corner Post
- Claim Boundary
- Trench (or)
- Portal
- Geochemical Assay Value of B Soil Horizon - Au (ppb) — 15

GEOLOGICAL BRANCH ASSESSMENT REPORT

11,916

IMPERIAL METALS CORPORATION

CUNNINGHAM CREEK (2)

FIGURE 5 — N.T.S. 93A/14

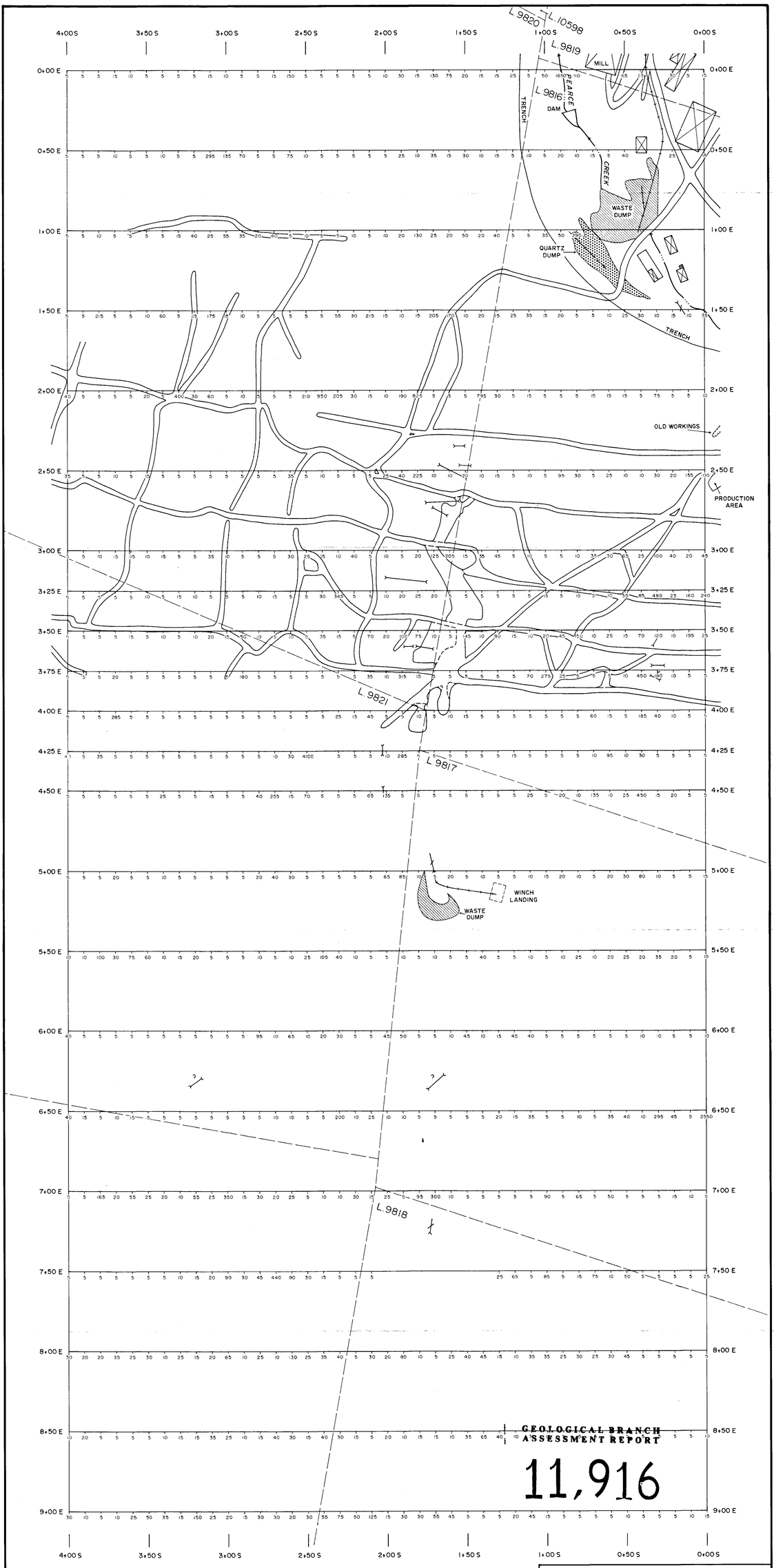
CENTRE GRID

SOIL GEOCHEMISTRY: Au

Cariboo Mining Division, British Columbia

Metres 25 0 25 50 75 Metres

SCALE: 1:1000	*GEOLOGIST:* S. P. QUIN, B.Sc.
DATE: NOVEMBER 1983	*DRAWN BY:* S. HAWORTH



GEOLOGICAL BRANCH
ASSESSMENT REPORT

11,916

LEGEND

- Road
- Stream
- Building
- Railway
- Claim Boundary
- Trench
- Portal (Caved)
- Geochemical Assay Value of B Soil Horizon - Au (ppb) (15)

IMPERIAL METALS CORPORATION

CUNNINGHAM CREEK (3)

FIGURE 6 N.T.S. 93A/14

SOUTH GRID

SOIL GEOCHEMISTRY: Au

Cariboo Mining Division, British Columbia

Metres 25 0 25 50 75 Metres

SCALE: 1:1000	GEOLOGIST: S. P. QUIN, B.Sc.
DATE: NOVEMBER 1983	DRAWN BY: S. HAWORTH