

85-43-13508

ASSESSMENT REPORT ON THE
1984 GEOLOGICAL AND GEOCHEMICAL EXPLORATION ACTIVITIES
PHIL 17 CLAIM

OMINECA MINING DIVISION
NTS 93N/1

Located approximately 68 km North of Fort St. James, B.C.
Latitude 55°02'; Longitude 124°03'

Owned and Operated By:
SELCO DIVISION - BP RESOURCES CANADA LIMITED

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,508

BPVR 84-29

N. Humphreys
November, 1984

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SUMMARY

The 20 unit Phil 17 property was staked to cover arsenic-antimony stream sediment anomalies found by the government reconnaissance survey.

The claims are underlain by Upper Triassic Group andesite flows and tuffs and volcanic sediments.

Two weakly pyritic, iron carbonate altered zones were found at the contacts of diorite and leucocratic feldspar porphyry dykes. Rock samples from these zones had low metal contents.

A three sample low-order arsenic-antimony-(gold) soil anomaly is located just northwest of the property near an iron-carbonate altered zone.

Follow-up prospecting and soil sampling is recommended to assess the soil anomaly. This work could be done easily and cheaply in conjunction with the 1985 program on the Heidi-Phil-1 property.

INTRODUCTION

The Phil 17 property was staked following the government stream sediment survey release of June 27, 1984. The claims were staked

to cover an area with arsenic and antimony anomalies coincident with a magnetic anomaly. Four days were spent, between August 11 - 14, 1984, doing geological mapping and soil and silt sampling.

LOCATION AND ACCESS (Figure 1)

NTS 93N/1E, Latitude 55°02', Longitude 124°03', Omineca Mining Division.

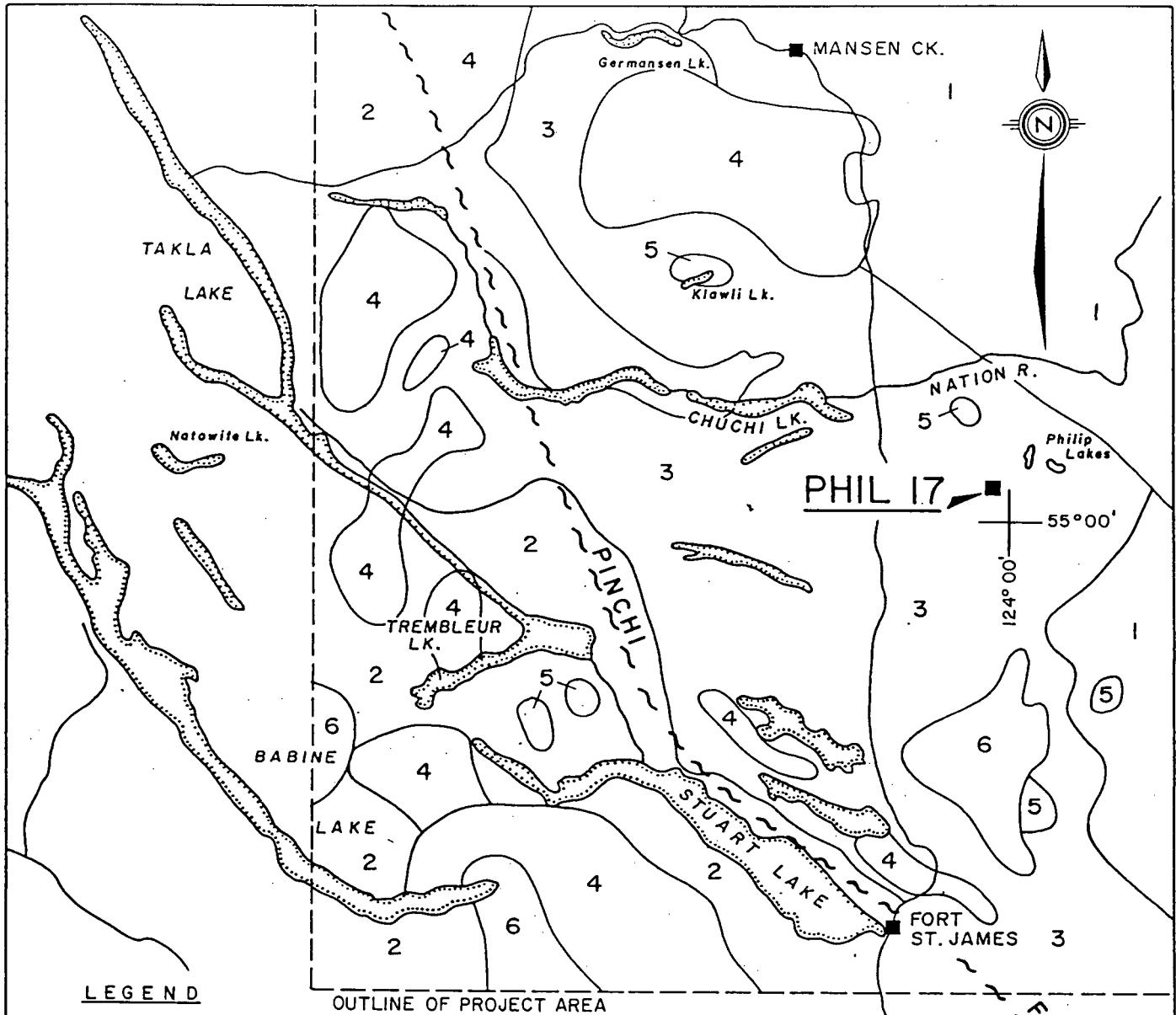
The property is 68 km north of Fort St. James and 12 km east of the main Fort St. James-Manson Creek road. Access is by helicopter from Fort St. James.

CLAIM STATUS

	<u>RECORD #</u>	<u>RECORDED DATE</u>
PHIL 17 20 Units	6486	July 20, 1984

PHYSIOGRAPHY AND VEGETATION

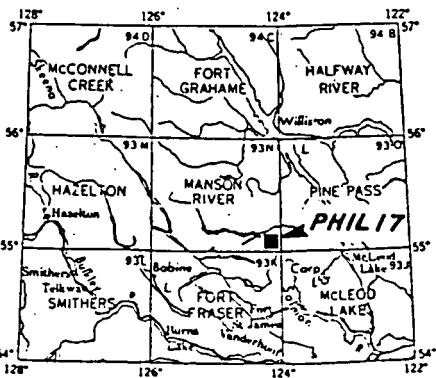
The claims cover an area of moderate topographic relief with elevations ranging from 1150 to 1450 metres. With the exception of a swampy valley near the centre of the property, the slopes are covered by a thick growth of balsam fir and spruce trees. Most outcrop was found along the ridge in the northeastern part of the property or in the banks of the anomalous creeks to the west.



LEGEND

- 6 Tertiary : Volcanic Rocks
- 5 Cretaceous : Intrusive Rocks
- 4 Triassic - Jurassic : Intrusive Rocks
- 3 Upper Triassic : Takla Group ; Volcanic and Sedimentary Rocks
- 2 Upper Palaeozoic : Cache Creek Group ; Metamorphic Rocks
- 1 Proterozoic - Palaeozoic Metamorphic Rocks

0 10 20 30 KM



	SELCO DIVISION - BP RESOURCES CANADA LIMITED	
PHIP 17 CLAIM TAKLA PROJECT - B.C. PROPERTY LOCATION MAP AND REGIONAL GEOLOGY		
SCALE 1:1000000	DRAWN BY: D.H.	FIG. 1
DATE DEC 84	DRAFTED BY: E.B.W.	
N.T.S. 93 N	PROJ. 10130	REPORT BPVR 84-29

REGIONAL GEOLOGY (Figure 1)

The Phil 17 property is located within the Intermontane Tectonic Belt in an area underlain by rocks of the Triassic Takla Group. This group is comprised of mainly basic volcanic and sedimentary rocks that formed within the Quesnel Trough, a northwest trending graben lying between highly deformed Proterozoic and Palaeozoic strata to the east and deformed Upper Palaeozoic strata to the west.

The nearest known intrusive rocks are monzo-diorite plugs found on Selco's Heidi property, 5 km to the north of the Phil 17 property.

The major structure in the region is the Pinchi Fault which lies 50 km southwest of the property and forms the western boundary of the Quesnel Trough.

PROPERTY GEOLOGY (Figure 2)

The claims are underlain by northwest trending andesite flows, tuffs and breccias. Dips of the units vary from moderately northeasterly to southwesterly. Fragmental rocks predominate with lesser interbedded flows. The fragmental rocks are typically green in colour with abundant augite and plagioclase

phenocrysts in both the matrix and fragments. Fragments tend to be lithologically similar to the matrices in the tuffs. The flows are green, augite-plagioclase porphyries which in places display flow brecciation.

A sedimentary unit consisting of black argillite, greenish tuffaceous sandstone and siltstone is found immediately northwest of the claims. From the best exposure of an argillite section, a northeasterly strike was obtained which crosscuts the trend of the volcanic rocks. A northeast trending fault is postulated to explain the relative positions of the sedimentary and volcanic rocks.

A number of narrow dykes or sills were found on or near the property. These were of two types: fine grained, light grey leucocratic feldspar porphyry and darker grey, medium grained plagioclase +/_ diorite.

There is some evidence for folding in the eastern part of the property, where the volcanic rocks are more strongly foliated. Weakly developed graded-bedding in the tuffs suggest that the volcanics are younger to the northeast.

MINERALIZATION AND ALTERATION

Two weakly pyritic zones associated with silica-iron-carbonate alteration were found. The largest, about 15 metres wide and traced for 50 metres along strike, occurs near the centre of the property, at a feldspar porphyry dyke-tuff contact. The second is poorly exposed over a few metres at a diorite dyke-sandstone contact. Rock chip samples (846636, 846659, 660) from the zones had very low metal values: 35 ppb gold and 44 ppm arsenic were the highest values found.

A 5 metre wide, rusty zone with narrow quartz veins in argillite was found in a creek, just east of the property. A sample (846637) from this zone had 20 ppb gold, 25 ppm antimony, and 500 ppb mercury. Away from these zones the rocks are fresh except for weak, spotty epidote or pyrite disseminated in the volcanic rocks.

GEOCHEMISTRY

Sixty-four soil, 27 silt and 5 rock samples were collected on and near the claims. Silt and bank soil samples were collected along the two anomalous creeks and soil samples were collected along a contour traverse line run diagonally across the property. The soil samples were collected from the 'B' soil horizon at a depth of 25 cm and analyzed for gold by AA and for 30 other elements by ICP at Acme Analytical Labs in Vancouver. Overburden thickness averages 1-3 metres over most of the area.

The results show some weak one or two sample soil anomalies, usually of copper, arsenic or silver. The most interesting multi-element anomaly is from creek bank soil samples collected outside of the claim block, 400 metres from the northwest corner post. One sample has 85 ppm arsenic, 12 ppm antimony, and 30 ppb gold. A sample from across the creek has 30 ppm arsenic and 8 ppm antimony and another 200 metres to the north has 34 ppm arsenic and 9 ppm antimony; these values are weakly anomalous. A poorly exposed outcrops of carbonate altered diorite and sandstone is found on the edge of the anomaly.

The soil anomaly discussed above is 600 metres upstream from where the government silt sample weakly anomalous in arsenic and antimony was collected. Silt samples taken upstream from this sample all had lower arsenic and antimony contents than in the government sample.

Gold values are low in both the soil and silt samples. The highest soil value is 30 ppb and the highest silt value is 50 ppb. All silt samples upstream this latter sample including one taken 200 metres away have values \leq 10 ppb gold.

CONCLUSIONS AND RECOMMENDATIONS

The two weakly pyritic carbonate alteration zones that were found occur near the contact of diorite or leucocratic feldspar porphyry dykes. Metal values in these zones are low.

Away from these small zones the rocks seen on the property are fresh and unmineralized.

The low order arsenic-antimony-(gold) soil anomaly located just off the northwest corner of the property is worthy of follow-up prospecting and additional soil sampling to define the limits of the anomaly. This work could be done easily and cheaply in conjunction with the 1985 program on Phil 1 - Heidi claims a few kilometres to the north of Phil 17 property.

APPENDIX A
ROCK SAMPLE DESCRIPTIONS

APPENDIX A
ROCK SAMPLE DESCRIPTIONS

SAMPLE #	DESCRIPTION	ANOMALOUS VALUES		
846636	Ankerite-silica altered augite porphyry dyke, 1% pyrite, abundant Mn staining.	44	ppm	As
		10	ppm	Sb
846637	Rusty black argillite with quartz stringers and clay-sericite alteration, trace pyrite.	25	ppm	Sb
		500	ppb	Hg
		20	ppb	Au
846659	Orange weathering, ankeritic feldspar porphyry and andesite tuff; 1% pyrite, barren quartz veins, common Mn staining.			
846660	Same zone as at 846659 but 50 metres along strike to the northwest.	35	ppb	Au
846661	Andesitic volcanic conglomerate, 2% finely disseminated pyrite.			

APPENDIX B
GEOCHEMICAL RESULTS

RECEIVED

VANGEOCHEM LABORATORY LTD. 1521 PEMBERTON AVE. N. VANCOUVER B.C. V7P 2E3 PH: (604) 986-5211 TELEX: 04-352578

ICP GEOCHEMICAL ANALYSIS

AUG 27 1984

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,K,W,Ba,Si,SR,Cr AND B. AU DETECTION 3 PPM.

NOTE: IS = INSUFFICIENT SAMPLE
 ND = NON DETECTED
 - = NOT ANALYZED

SELCO EXPLORATION
VANCOUVER, B.C.DATE RECEIVED AUG 17 1984 DATE REPORTS MAILED Aug 24/84 ASSAYER *D. Chi* DAVID CHIU, CERTIFIED B.C. ASSAYER

SAMPLE #	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	Ti	B	AL	MA	K	W	AU#
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	I	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
846567	2	.74	.13	.91	.3	.21	.15	1141	5.59	.18	5	ND	5	.39	1	5	2	.71	.65	.22	.13	.26	.85	164	.01	5	2.02	.01	.06	2	10
846568	1	.61	.10	.101	.2	.21	.13	1831	5.86	.17	5	ND	4	.30	1	3	2	.70	.53	.17	9	.23	1.03	145	.01	2	1.81	.01	.06	2	ND
846569	1	.61	.13	.102	.2	.25	.14	2127	5.80	.21	5	ND	4	.36	1	5	2	.70	.59	.17	11	.22	1.04	171	.01	2	1.81	.01	.07	2	5
846570	1	.48	.6	.102	.7	.21	.3	432	5.74	.16	5	ND	3	.21	1	2	3	.108	.32	.59	3	.42	.66	109	.07	4	4.52	.01	.05	2	10
846571	1	.38	.6	.96	.3	.25	.6	276	5.93	.8	5	ND	2	.26	1	2	2	.82	.33	.20	6	.40	.68	105	.07	3	2.43	.01	.05	2	30
846572	1	.62	.12	.105	.1	.21	.17	2262	6.05	.19	5	ND	4	.36	1	5	2	.73	.60	.18	.13	.22	1.08	178	.01	2	1.88	.01	.06	2	5
846573	1	.78	.20	.96	.6	.22	.15	1378	5.72	.34	5	ND	3	.54	1	9	2	.66	.87	.21	12	.22	.69	142	.01	4	1.74	.01	.07	2	20
846574	1	.80	.19	.89	.2	.24	.14	692	5.71	.21	5	ND	4	.36	1	6	2	.63	.62	.19	15	.23	.86	118	.01	2	1.81	.01	.06	2	15
846575	2	.60	.10	.97	.1	.22	.15	3452	5.57	.13	5	ND	3	.38	1	3	2	.71	.61	.18	.13	.23	1.06	224	.02	5	1.78	.01	.07	2	10
846576	4	.52	.11	.64	.3	.12	.6	415	5.65	.85	5	ND	2	.15	1	12	2	.25	.19	.18	10	8	.15	130	.01	2	1.09	.01	.08	2	30
846577	2	.75	.12	.106	.1	.15	.9	1565	6.28	.30	5	ND	3	.29	1	8	2	.53	.66	.22	.19	8	.53	141	.01	2	1.24	.01	.07	2	10
846578	2	.49	.8	.98	.1	.21	.18	3140	5.63	.13	5	ND	3	.47	1	2	2	.77	.73	.19	.13	.29	1.17	231	.03	6	2.02	.01	.06	2	ND
846579	2	.38	.14	.137	.2	.11	.9	3387	5.49	.13	5	ND	2	.36	1	2	2	.78	.51	.28	8	.15	.58	228	.01	3	1.89	.01	.08	2	ND
846580	1	.107	.13	.126	.2	.20	.24	1658	6.42	.7	5	ND	2	.30	1	2	2	.77	.49	.30	12	.22	.96	163	.01	3	2.34	.01	.06	2	5
846581	1	.49	.7	.84	.1	.19	.12	1071	3.52	.6	5	ND	3	.49	1	2	2	.70	.88	.18	12	.28	1.02	184	.03	2	2.04	.01	.06	2	10
846582	3	.128	.17	.119	.1	.29	.23	580	6.67	.18	5	ND	4	.23	1	15	2	.54	.42	.16	18	.19	.79	86	.01	3	1.51	.01	.07	2	5
846583	1	.54	.17	.214	.1	.10	.18	3538	6.53	.5	5	ND	3	.57	2	3	2	.74	1.23	.60	13	.11	.61	254	.02	3	1.91	.01	.12	2	ND
846584	1	.33	.4	.70	.1	.20	.9	1032	3.29	.4	5	ND	2	.50	1	2	2	.65	.74	.16	9	.32	.93	204	.05	3	1.84	.01	.05	2	ND
846585	2	.64	.10	.98	.2	.21	.13	1726	4.92	.12	5	ND	2	.54	1	2	2	.58	.96	.16	12	.24	.72	147	.02	3	1.63	.01	.06	2	20
846586	2	.60	.19	.60	.2	.17	.20	1444	6.83	.8	5	ND	3	.42	1	2	2	.46	.49	.21	11	.30	.83	213	.01	2	2.14	.01	.05	2	ND
STD	21	186	41	99	2.5	748	14	683	3.88	10	5	ND	5	.27	1	9	2	.49	1.57	.12	7	.86	.66	55	.04	29	.87	.05	.23	2	-
846587	3	.71	.10	.120	.1	.21	.16	1724	6.23	.16	5	ND	4	.21	1	2	2	.64	.35	.16	15	.16	.96	117	.01	6	1.87	.01	.08	2	ND
846588	1	.61	.11	.88	.1	.27	.18	803	8.55	.38	5	ND	3	.17	1	2	3	.124	.10	.22	5	.38	.67	169	.01	2	2.54	.01	.09	2	10
846589	1	.41	.6	.79	.1	.21	.8	421	3.29	.7	5	ND	2	.51	1	2	2	.79	.71	.17	8	.39	1.10	192	.06	7	2.13	.01	.06	2	5
846590	1	.24	.10	.71	.2	.12	.4	285	4.34	.3	5	ND	2	.31	1	2	2	.85	.38	.26	7	.35	.47	101	.07	4	1.77	.01	.05	2	10
846591	1	.71	1	.60	.2	.17	5	350	4.96	2	8	ND	2	.256	1	2	2	.134	.36	.20	6	.63	.87	228	.18	2	2.83	.02	.07	2	25
846592	1	.33	3	.59	.1	.18	8	574	2.62	6	5	ND	2	.52	1	2	2	.62	.75	.14	7	.33	.81	209	.06	7	1.72	.01	.05	2	15
846593	1	.51	7	.49	.1	.21	8	514	3.40	5	5	ND	2	.38	1	2	2	.78	.50	.12	5	.36	.81	94	.08	2	1.71	.01	.07	2	10
846594	1	.46	10	.52	.1	.20	7	369	3.66	.61	5	ND	2	.46	1	2	2	.90	.62	.05	6	.44	.75	113	.09	5	2.20	.01	.07	2	10
846595	2	.76	6	.89	.1	.32	16	1726	5.71	.20	5	ND	2	.62	1	2	2	.86	.17	9	.38	.96	197	.05	3	1.96	.01	.10	2	50	
846596	2	.61	7	.90	.1	.31	14	1737	5.74	.14	5	ND	2	.66	1	2	2	.101	.75	.16	13	.44	1.27	198	.07	3	2.23	.02	.08	2	ND
846597	1	.90	9	.88	.1	.16	8	357	4.57	.15	5	ND	2	.33	1	2	3	.114	.26	.18	6	.27	1.11	102	.03	3	3.29	.01	.07	2	5
846598	2	.71	14	.109	.1	.32	20	2777	5.94	.19	7	ND	2	.64	1	2	2	.89	.90	.17	11	.39	1.06	235	.07	4	2.05	.02	.13	2	10
846599	2	.88	10	.61	.7	.25	13	1114	4.00	7	8	ND	2	.61	1	2	2	.95	.77	.23	13	.42	.90	138	.04	4	2.45	.01	.10	2	10
846600	1	.53	10	.82	.1	.20	7	1131	3.35	5	7	ND	2	.50	1	2	3	.79	.74	.09	10	.36	.57	158	.06	5	1.80	.01	.05	2	ND
846601	1	.48	14	183	.3	.31	12	1745	4.79	.13	5	ND	2	.47	1	2	2	.100	.75	.14	9	.62	1.30	139	.12	2	1.99	.04	.13	3	10
846602	1	.57	9	.50	.2	.16	5	600	2.84	4	7	ND	2	.60	1	2	2	.74	.81	.08	5	.33	.63	142	.07	4	1.31	.01	.06	2	10
846603	2	.366	18	156	.1	.137	140	1432	9.19	.12	5	ND	4	.101	1	2	3	.178	.72	.10	10	.47	1.17	562	.08	2	5.23	.01	.09	2	ND
846604	2	.56	6	.84	.1	.26	13	3242	5.47	.12	5	ND	2	.68	1	2	2	.83	1.01	.16	9	.33	.71	221	.05	2	1.72	.01	.07	2	5
846605	1	.97	16	.84	.1	.30	16	1070	5.30	.16	5	ND	3	.37	1	2	2	.98	.35	.23	10	.49	1.19	129	.08	7	2.37	.01	.08	2	5
STD S-1	91	123	116	184	32.9	151	81	501	3.17	116	94	38	179	127	91	71	96	59	.56	.12	130	64	.58	123	.08	169	1.49	.23	.21	63	-

BP - SELCO MINING PROJECT# 904 REPORT# 84-20-058 JOB# 84-389 INVOICE# 8181 FILE# 84-2249 PAGE # 2

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 %	I PPM	LA PPM	CR PPM	XG %	BA PPM	Tl PPM	B PPM	AL %	XA %	K PPM	V PPM	AU#
846606	1	164	14	160	1.5	41	24	3831	6.69	20	5	ND	4	58	2	2	2	113	.82	.16	15	84	1.21	298	.04	4	4.13	.01	.20	2	ND
846607	1	49	9	92	.1	21	11	3337	5.58	13	5	ND	3	65	1	2	2	86	.91	.17	12	34	.88	264	.05	2	1.87	.01	.08	2	5
846608	1	49	3	58	.1	17	7	586	3.21	6	5	ND	2	41	1	2	4	67	.18	.12	8	37	.78	98	.07	2	1.85	.01	.07	2	15
846609	1	64	9	83	.1	37	10	616	5.76	28	5	ND	2	24	1	2	4	84	.20	.15	6	61	.64	188	.01	2	1.92	.01	.08	2	15
846610	2	56	6	118	.1	29	20	5476	7.12	21	5	ND	3	71	2	2	2	90	.78	.18	13	32	1.02	368	.04	6	2.07	.01	.09	2	ND
846611	1	47	11	110	.2	11	6	1251	4.69	6	5	ND	2	86	1	2	2	121	1.19	.18	5	37	.69	318	.02	2	1.86	.01	.08	2	5
846612	1	56	7	107	.1	13	9	617	6.83	7	5	ND	3	12	1	2	2	100	.11	.29	11	20	.64	199	.01	2	2.61	.01	.06	2	5
846613	1	50	5	95	.1	25	15	4803	6.07	17	5	ND	3	61	1	2	2	84	.84	.17	13	33	.87	280	.04	4	1.84	.01	.07	2	5
846614	1	80	11	125	.1	11	12	1197	6.49	21	5	ND	2	101	1	5	2	151	.56	.17	6	15	.70	540	.02	3	2.55	.01	.05	2	15
846615	1	51	10	104	.1	11	9	885	5.16	25	5	ND	2	51	1	2	2	87	.63	.21	5	18	.44	254	.01	2	1.82	.01	.09	2	ND
846616	1	54	14	99	.1	25	18	7890	6.17	19	5	ND	4	67	2	3	2	78	.93	.17	9	30	.74	354	.03	2	1.77	.01	.07	2	10
846617	1	65	13	115	.1	11	14	1964	5.70	19	5	ND	2	41	1	3	2	84	.33	.29	7	21	.67	352	.02	5	1.75	.01	.07	2	5
846618	1	31	13	88	.3	13	6	1668	4.56	12	5	ND	2	10	1	5	2	47	.09	.20	6	17	.19	174	.01	3	1.25	.01	.08	2	10
846619	2	55	7	100	.1	32	21	9523	6.05	18	5	ND	4	57	1	2	2	87	.73	.16	7	34	.94	365	.05	3	1.87	.01	.09	2	10
846620	1	82	14	86	.1	18	20	1535	7.20	28	5	ND	4	28	1	2	2	98	.38	.17	12	22	1.05	192	.02	3	2.38	.01	.07	2	5
846621	1	61	6	44	.4	19	7	1513	3.68	18	5	ND	3	76	1	3	2	87	1.12	.16	7	34	.59	164	.03	2	1.70	.01	.06	2	5
846622	2	44	7	83	.2	27	15	5434	6.00	18	5	ND	4	57	1	2	2	83	.78	.15	8	35	.77	240	.05	2	1.84	.01	.07	2	10
846623	1	59	8	60	.1	19	6	495	3.82	16	5	ND	2	21	1	2	2	73	.18	.10	7	33	.48	144	.06	2	1.60	.01	.06	2	15
846624	1	101	17	182	.2	14	18	1559	8.77	39	5	ND	4	45	1	2	2	40	.40	.26	13	5	.14	293	.01	2	1.31	.01	.11	2	10
846625	1	54	7	93	.1	47	15	1060	7.85	32	5	ND	3	41	1	2	2	84	.66	.19	10	52	.98	167	.06	2	1.94	.01	.08	2	10
STD	20	177	45	98	2.7	756	12	684	3.80	12	5	ND	6	27	1	10	2	44	1.57	.12	7	75	.65	55	.04	21	.82	.03	.24	2	-
846626	1	49	7	55	.1	24	5	444	2.98	8	5	ND	2	42	1	2	3	65	.55	.12	10	36	.66	119	.07	2	1.65	.01	.09	2	10
846627	1	49	5	47	.1	16	3	715	2.48	8	5	ND	2	61	1	2	2	52	1.33	.16	10	33	.48	101	.03	5	1.59	.01	.04	2	5
846628	1	63	10	69	.1	18	9	2745	3.87	9	6	ND	2	78	2	2	2	75	1.47	.15	11	33	.73	168	.04	11	1.83	.01	.06	2	ND
846629	1	31	5	47	.2	13	6	356	2.11	2	5	ND	2	40	1	2	2	47	.39	.10	9	30	.47	137	.03	2	1.74	.01	.05	2	10
846630	1	15	6	31	.1	10	1	172	1.52	2	5	ND	2	26	1	2	3	42	.29	.05	6	22	.43	71	.10	2	1.18	.01	.04	2	5
846631	1	20	7	27	.4	9	1	117	1.21	2	5	ND	2	29	1	2	2	31	.27	.08	6	21	.32	106	.05	4	1.24	.01	.04	2	10
846632	1	51	1	29	.8	10	2	142	1.87	2	5	ND	2	27	1	2	2	36	.31	.13	9	34	.34	77	.03	4	2.81	.01	.03	2	5
846633	1	44	5	47	.1	16	4	265	3.19	5	5	ND	2	27	1	2	6	67	.37	.34	7	34	.57	88	.09	4	1.60	.01	.04	2	10
846634	1	65	5	58	.1	23	5	468	3.02	6	5	ND	2	63	1	2	2	62	.69	.12	8	35	.77	153	.07	2	1.90	.01	.11	2	10
846635	1	56	8	40	.3	19	6	2414	2.22	5	5	ND	2	52	1	3	2	48	1.04	.15	11	29	.54	101	.03	2	1.67	.01	.06	2	10
846638	1	19	6	110	.1	12	4	372	3.41	3	5	ND	2	15	1	3	2	75	.21	.16	5	33	.33	90	.08	4	1.46	.01	.03	2	10
846639	1	28	4	35	.1	8	2	227	2.93	7	5	ND	2	49	1	2	2	82	.69	.03	5	25	.67	138	.03	2	2.20	.01	.03	2	5
846640	1	30	13	123	.4	9	5	318	4.70	5	5	ND	2	15	1	2	6	118	.18	.13	5	37	.67	119	.02	6	1.78	.01	.05	2	20
846641	1	46	5	74	.1	21	11	620	4.34	18	5	ND	2	26	1	2	5	88	.34	.10	4	35	.78	116	.07	3	1.97	.01	.06	2	5
846642	1	22	5	69	.1	11	1	217	3.69	6	5	ND	3	17	1	2	2	85	.21	.28	6	28	.45	92	.08	2	1.63	.01	.04	2	5
846643	1	34	2	55	.1	15	6	606	2.14	6	5	ND	2	43	1	2	2	47	.64	.09	7	34	.51	113	.06	2	1.75	.01	.05	2	10
846644	1	98	5	50	.5	20	4	326	2.70	8	5	ND	3	68	1	2	2	53	1.09	.11	6	61	.76	130	.07	2	1.81	.01	.09	2	10
846645	1	21	5	42	.1	11	2	264	3.27	4	5	ND	2	22	1	2	2	72	.32	.33	4	29	.41	72	.07	2	1.40	.01	.04	2	5
846646	1	25	4	47	.1	13	2	234	2.39	4	5	ND	2	25	1	2	2	48	.38	.09	6	26	.55	58	.07	3	1.29	.01	.04	2	10
STD S-1	95	124	116	185	34.4	152	83	497	3.16	122	93	37	170	128	86	69	91	57	.56	.12	136	64	.58	125	.08	167	1.50	.20	.23	67	-

BP - SELCO MINING PROJECT# 904 REPORT# 84-20-05B JOB# 84-389 INVOICE# 8181 FILE# 84-2249 PAGE #

SAMPLE #	NO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CD 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 PPM	BA PPM	TI %	B PPM	AL %	NA %	K PPM	V PPM	Au# PPB
STD S-1	87	121	114	183	31.8	152	81	489	3.17	109	90	34	171	126	79	65	86	59	.56	.12	125	63	.58	123	.08	162	1.49	.22	.21	61	-
846647	1	36	4	65	.3	19	7	505	2.95	3	5	ND	2	33	1	2	2	61	.59	.11	8	32	.60	89	.05	8	1.48	.01	.04	2	5
846648	1	180	7	63	.5	34	12	1835	4.01	7	5	ND	3	57	1	2	2	108	1.15	.14	21	51	.66	204	.05	3	2.76	.02	.09	2	5
846649	1	24	8	38	.2	14	3	205	2.74	3	5	ND	3	24	1	2	2	72	.30	.08	5	24	.43	97	.08	7	1.35	.01	.04	2	10
846650	1	20	4	56	.1	12	2	194	3.01	2	5	ND	2	17	1	2	3	83	.20	.10	6	25	.38	81	.11	7	1.41	.01	.03	2	5
846651	1	34	3	48	.1	16	3	232	3.95	6	5	ND	2	22	1	2	2	89	.27	.19	8	35	.51	70	.07	7	1.59	.01	.03	2	5
846652	1	22	5	74	.1	10	5	402	2.08	2	6	ND	2	17	1	2	2	64	.21	.17	6	31	.40	57	.07	3	1.65	.01	.04	2	5
846653	2	48	5	69	.1	22	13	2637	4.41	7	5	ND	2	42	1	2	2	96	.77	.12	10	36	.82	128	.07	4	1.79	.02	.07	2	5
846654	2	30	4	46	.3	13	6	207	3.43	2	6	ND	2	36	1	2	2	107	.71	.05	7	28	.38	157	.11	2	1.74	.01	.04	2	1
846655	1	32	4	35	.1	15	5	378	2.40	4	5	ND	2	33	1	2	3	56	.60	.11	8	29	.54	62	.06	7	1.27	.01	.04	2	5
846656	1	57	11	47	.1	23	9	391	3.47	3	5	ND	2	30	1	2	4	78	.46	.07	8	36	.83	103	.07	2	2.03	.01	.05	2	30
846657	1	51	13	76	.1	21	8	1445	3.55	9	5	ND	2	39	1	2	2	76	.65	.16	8	36	.87	120	.08	7	1.60	.01	.13	2	20
846658	1	58	1	67	.1	24	13	2740	3.83	6	5	ND	2	53	1	2	2	85	.89	.18	9	41	.96	147	.09	5	1.75	.01	.14	2	10
846662	1	33	7	48	.1	20	6	756	2.90	3	5	ND	2	39	1	2	2	73	.63	.13	7	37	.58	86	.08	5	1.40	.01	.06	2	20
STD S-1	89	122	114	183	31.9	152	81	489	3.17	111	90	34	172	126	79	68	85	59	.56	.12	127	63	.58	123	.08	161	1.49	.22	.21	61	-

SAMPLE #	NO PPM	CU PPM	PB PPM	ZX PPM	AG PPM	NI PPM	CD PPM	NW PPM	FE I	AS PPM	U PPM	AU PPM	TII PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA I	P I	LA PPM	CR PPM	M6 I	BA PPM	TI I	B PPM	AL I	NA I	K I	V PPM	AU#4 PPB	Hg1 PPB
B46636	1	77	14	65	.1	29	14	925	4.33	44	6	ND	2	316	1	10	2	36	4.19	.16	2	28	1.52	75	.01	2	.99	.02	.14	2	5	40
B46637	2	99	10	34	.1	11	6	145	4.81	17	5	ND	2	13	1	25	2	79	.11	.15	4	84	1.23	41	.01	2	1.84	.01	.09	2	20	500
B46659	1	64	8	37	.1	14	7	570	2.49	11	5	ND	2	217	1	2	2	11	2.21	.11	4	59	.60	87	.01	2	.21	.02	.15	2	ND	20
B46660	1	46	4	37	.1	10	6	500	2.33	9	5	ND	2	118	1	3	2	18	1.71	.09	5	46	.44	51	.01	2	.33	.03	.15	2	35	20
B46661	1	22	8	54	.1	4	7	1116	3.30	3	5	ND	2	103	1	2	2	68	10.25	.12	2	14	.96	39	.08	2	1.18	.02	.04	2	10	15

REGIONAL STREAM SEDIMENT AND WATER GEOCHEMICAL RECONNAISSANCE DATA, BRITISH COLUMBIA, 1983. GSC-OF 1001, NGR 66-1983, NTS 93N

MAP	SAMPLE	UTM COORDINATES				ROCK TYPE	G E	A															
		ZN	EAST	NORTH	ZN			CU	PB	NI	CO	AG	MN	AS	MO	FE	HG	U	W	SB	F-W	PH	U-W
93N01	831169	10	427321	6112405	ANDS	32	18	33	3	9	2	0.1	103	1.0	1	0.60	170	1.1	2	0.4	34	6.7	.01
93N01	831170	10	428707	6108869	ANDS	32	40	39	1	16	7	0.1	203	2.5	1	2.15	100	1.8	2	0.2	38	7.5	.01
93N01	831171	10	428707	6108869	ANDS	32	34	55	1	17	7	0.1	198	2.5	1	1.80	110	2.3	2	0.4	40	7.5	.01
93N01	831172	10	429197	6106414	ANDS	32	33	28	1	16	8	0.1	1070	3.0	1	2.10	100	2.1	1	0.4	32	7.1	.05
93N01	831173	10	426433	6105964	ANDS	32	49	54	2	22	8	0.3	283	3.0	1	1.95	120	2.9	1	0.4	36	7.0	.01
93N01	831174	10	429074	6112599	ANDS	32	22	28	1	10	6	0.1	460	2.0	1	1.35	80	1.9	1	0.4	34	7.2	.01
93N01	831175	10	435188	6109340	ANDS	32	74	445	2	23	10	0.2	128	4.5	5	1.20	290	1.9	1	0.4	28	7.3	.01
93N01	831176	10	435868	6107470	ANDS	32	24	57	1	12	6	0.1	750	4.5	3	2.10	140	0.9	3	0.2	28	7.2	.01
93N01	831177	10	435825	6105617	ANDS	32	48	67	1	22	12	0.1	442	2.5	1	2.40	160	1.8	2	0.5	26	7.0	.01
93N01	831178	10	432758	6100468	ANDS	32	128	64	5	16	14	0.1	853	21.5	3	6.35	60	3.0	2	9.4	28	7.3	.01
*	{ 831179 }	10	432974	6098594	ANDS	32	70	55	1	17	16	0.2	2590	11.0	2	4.55	120	1.9	3	2.1	28	7.6	.01
93N01	831180	10	431669	6096606	ANDS	32	52	46	3	20	8	0.1	248	1.5	1	1.95	90	2.2	5	0.6	26	7.2	.01
93N01	831182	10	430209	6100005	ANDS	32	52	38	1	20	10	0.1	1580	11.0	3	3.20	80	2.6	1	0.6	26	7.7	.01
93N01	831183	10	425920	6097873	ANDS	32	44	31	1	16	6	0.1	180	2.0	2	1.35	60	2.4	2	0.2	32	7.0	.01
93N01	831184	10	423408	6098838	ANDS	32	32	21	1	10	5	0.1	217	2.5	1	1.10	70	2.4	1	0.4	36	7.6	.06
93N01	831185	10	425470	6100822	ANDS	32	10	12	1	3	2	0.1	161	1.5	2	1.00	100	0.6	7	0.4	34	7.5	.01
93N01	831186	10	423689	6104516	ANDS	32	16	66	1	10	2	0.2	89	1.0	2	0.65	140	2.8	1	0.2	30	7.4	.01
93N01	831187	10	420801	6102309	ANDS	32	30	28	3	18	4	0.1	176	2.5	1	1.70	60	1.8	1	0.4	26	6.0	.01
93N01	831188	10	420641	6099150	ANDS	32	45	27	1	14	6	0.1	525	2.0	1	1.40	90	1.5	2	0.2	24	6.7	.01
93N01	831189	10	420512	6097826	ANDS	32	14	20	2	6	2	0.1	106	1.0	1	0.40	90	1.0	2	0.3	24	5.1	.01
93N01	831190	10	417558	6095546	ANDS	32	52	46	2	22	8	0.1	611	3.5	1	2.30	80	2.1	3	0.4	26	6.8	.01
93N01	831191	10	413118	6095559	ANDS	32	55	39	1	22	9	0.1	501	3.5	2	2.25	70	2.5	1	0.6	30	7.0	.01
93N01	831192	10	407862	6097364	ANDS	32	90	38	1	30	12	0.1	1600	3.0	3	2.60	140	2.2	2	0.3	26	7.2	.01
93N01	831193	10	407862	6097364	ANDS	32	94	38	1	28	12	0.1	1480	2.5	2	2.60	140	2.3	1	0.4	38	7.3	.01
93N01	831194	10	404894	6096494	ANDS	32	50	60	3	37	11	0.1	400	4.5	2	2.40	140	2.8	1	0.6	36	7.4	.01
93N01	831195	10	405566	6103132	ANDS	32	52	60	2	36	9	0.1	388	2.0	1	2.05	120	2.9	1	0.3	36	7.5	.01
93N01	831196	10	409177	6100894	ANDS	32	84	31	1	28	14	0.1	3800	6.0	4	3.80	100	2.1	1	0.5	32	6.9	.01
93N01	831197	10	413185	6102540	ANDS	32	75	48	2	24	12	0.1	2220	7.0	2	3.30	80	2.2	3	0.6	32	7.1	.01

SAMPLE TYPE (S) 10
 ROCK TYPE (S) ALL
 SOIL HORIZONS ALL
 SAMPLE TEXTURE (S) ALL
 OVERTURDEN ORIGIN (S) ALL
 LAB SIZE-FRAC EX ALL

MO	CU	PB	ZN	NI	MN	FE	AG	CO	AU	AS
2	45	4	75	20	1500	4	.4	9	10	9
4	55	6	85	23	3000	5	.6	11	20	11
6	60	8	100	26	3500	5.9	.8	14	30	18
8	65	10	105	29	5000	6.2	1	17	40	20
10	70	12	115	32	6000	6.5	1.2	19	50	22
12	75	14	130	35	8000	7.5	1.5	21	75	30

SAMPLE TYPE (S) 50
 ROCK TYPE (S) ALL
 SOIL HORIZONS ALL
 SAMPLE TEXTURE (S) ALL
 OVERTURDEN ORIGIN (S) ALL
 LAB SIZE-FRAC EX ALL

MO	CU	PB	ZN	NI	MN	FE	AG	CO	AU	AS
2	35	6	65	14	400	4.8	.4	8	10	8
4	65	9	80	17	950	5.5	.6	10	20	12
6	70	12	100	23	1200	6.2	.8	13	30	19
8	95	14	125	28	1700	7	1	16	40	25
10	110	17	130	34	2000	7.5	1.2	21	50	35
12	175	19	160	40	3000	8.5	1.5	25	75	50

1000 METERS

PHIL 17 PROPERTY

HAZELTON PG - B.C.

1984 STREAM & SOIL SURVEY

PART 1 OF 3

DATE JAN/85 PROJECT 904F/10250

NTS 93N/1

SCALE 1: 20000

SAMPLE TYPE (S) 10
 ROCK TYPE (S) ALL
 SOIL HORIZONS ALL
 SAMPLE TEXTURE (S) ALL
 OVERBURDEN ORIGIN (S) ALL
 LAB SIZE-FRAC EX ALL

SB	BI	V	BA	SR	AL	CA	MG	K	TI	P
2	2	70	185	50	1.8	.7	.8	.04	.02	.1
4	4	75	210	60	1.9	.8	.95	.06	.04	.12
6	6	80	230	63	1.95	.85	1	.08	.06	.14
8	8	85	250	67	2	.9	1.05	.1	.08	.16
10	10	90	300	70	2.05	.95	1.1	.12	.1	.18
12	12	95	350	75	2.1	1.05	1.2	.14	.12	.2

SAMPLE TYPE (S) 50
 ROCK TYPE (S) ALL
 SOIL HORIZONS ALL
 SAMPLE TEXTURE (S) ALL
 OVERBURDEN ORIGIN (S) ALL
 LAB SIZE-FRAC EX ALL

SB	BI	V	BA	SR	AL	CA	MG	K	TI	P
2	2	60	120	23	1.5	.4	.5	.04	.02	.13
4	4	90	130	33	1.9	.5	.6	.06	.04	.19
6	6	95	175	50	2.2	.7	.8	.08	.06	.23
8	8	110	200	55	2.8	.8	.9	.1	.08	.27
10	10	130	250	75	3	1.1	1	.12	.1	.3
12	12	150	300	100	4	1.2	1.2	.15	.12	.4

1000 METERS

PHIL 17 PROPERTY

HAZELTON PG - B.C.

1984 STREAM & SOIL SURVEY

PART 2 OF 3

DATE JAN/85 PROJECT 904F/10250

NTS 93N/1

SCALE 1: 20000

SAMPLE TYPE (S) 10
ROCK TYPE (S) ALL
SOIL HORIZONS ALL
SAMPLE TEXTURE (S) ALL
OVERBURDEN ORIGIN (S) ALL
LAB SIZE-FRAC EX ALL

CR

28

36

38

40

50

55

✓
SAMPLE TYPE (S) 50
ROCK TYPE (S) ALL
SOIL HORIZONS ALL
SAMPLE TEXTURE (S) ALL
OVERBURDEN ORIGIN (S) ALL
LAB SIZE-FRAC EX ALL

CR

25

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1000 METERS

PHIL 17 PROPERTY

HAZELTON PG - B.C.

1984 STREAM & SOIL SURVEY

PART 3 OF 3

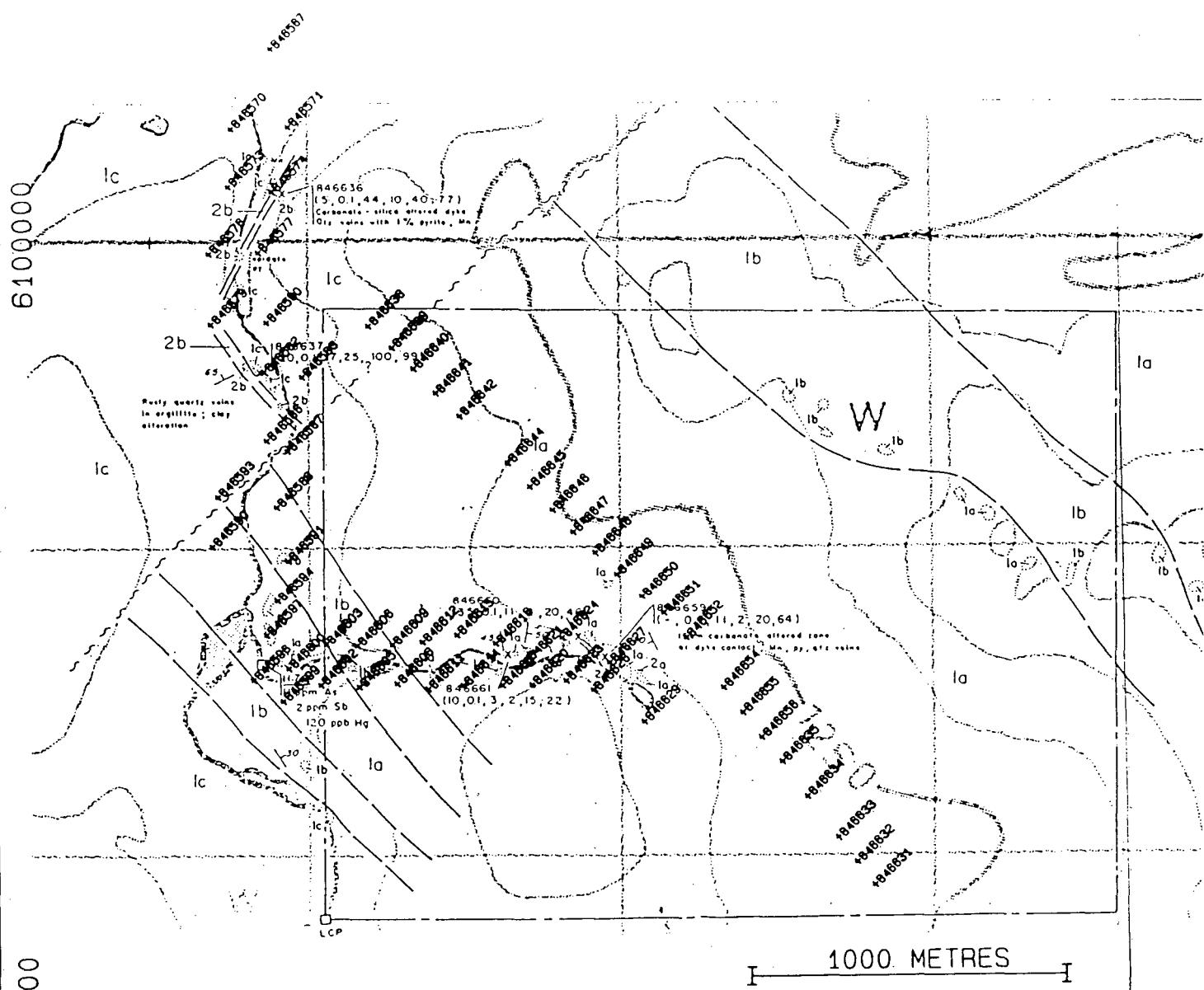
DATE JAN/85 PROJECT 904F/10250

NTS 93N/1

SCALE 1: 20000

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PHIL 17 PROPERTY

HAZELTON PG - B.C.

1984 SOIL SAMPLES

SAMPLE LOCATION MAP

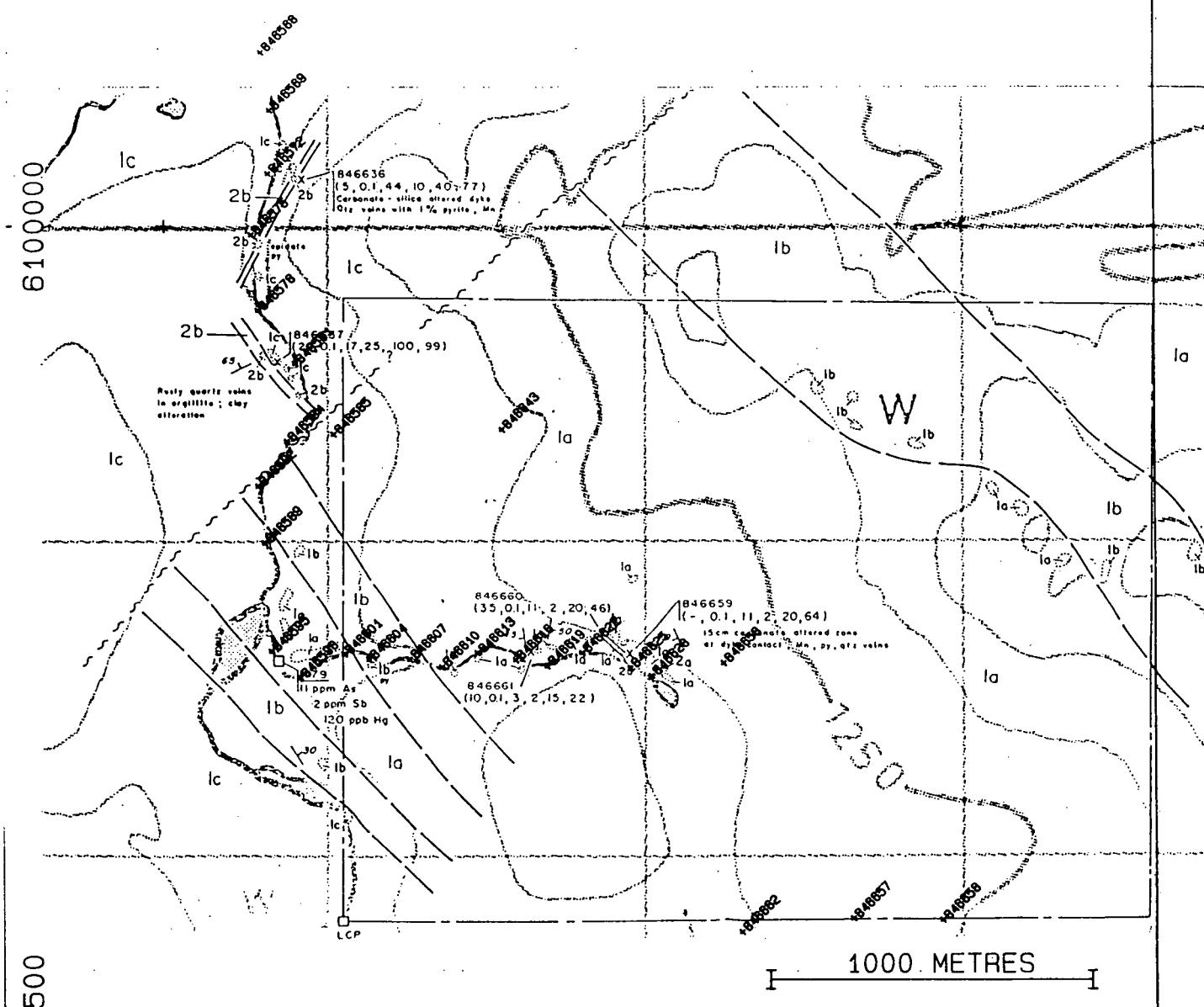
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NTS 93N/1

SCALE 1: 20000

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PHIL 17 PROPERTY

HAZELTON PG - B.C.

1984 STREAM SEDIMENT SAMPLES

SAMPLE LOCATION MAP

DATE JAN/85 PROJECT 904F/10250

NTS 93N/1

SCALE 1: 20000

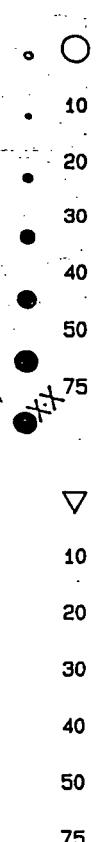
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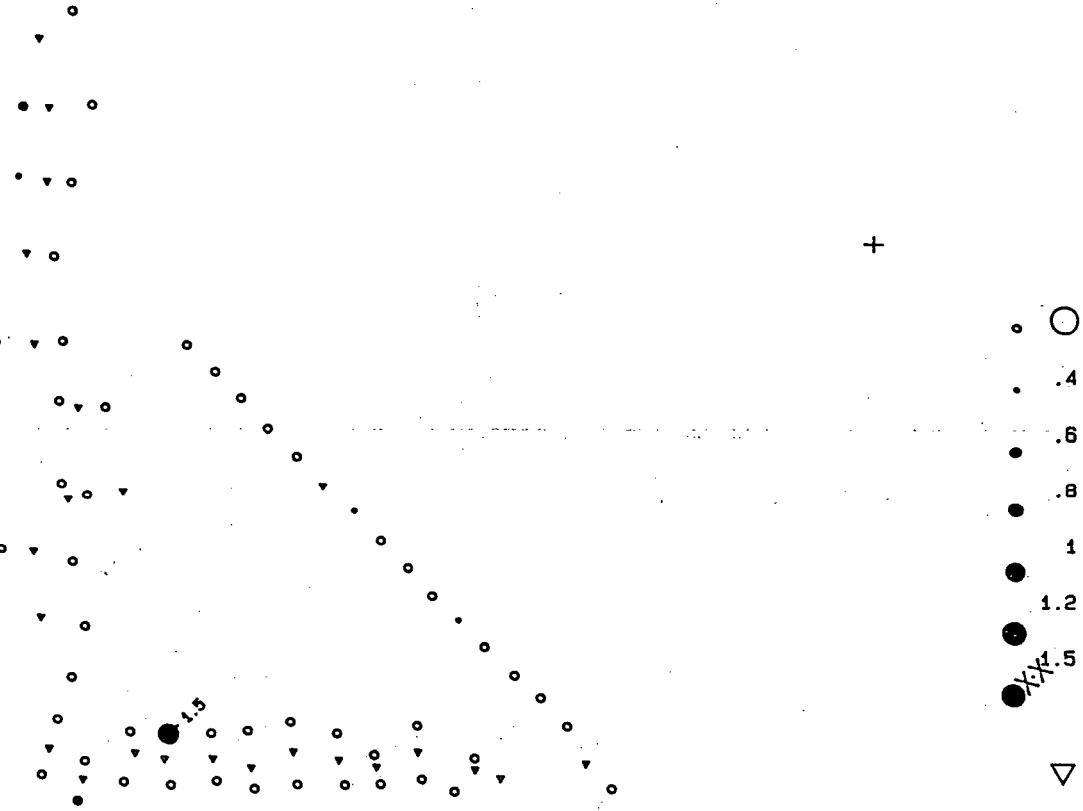
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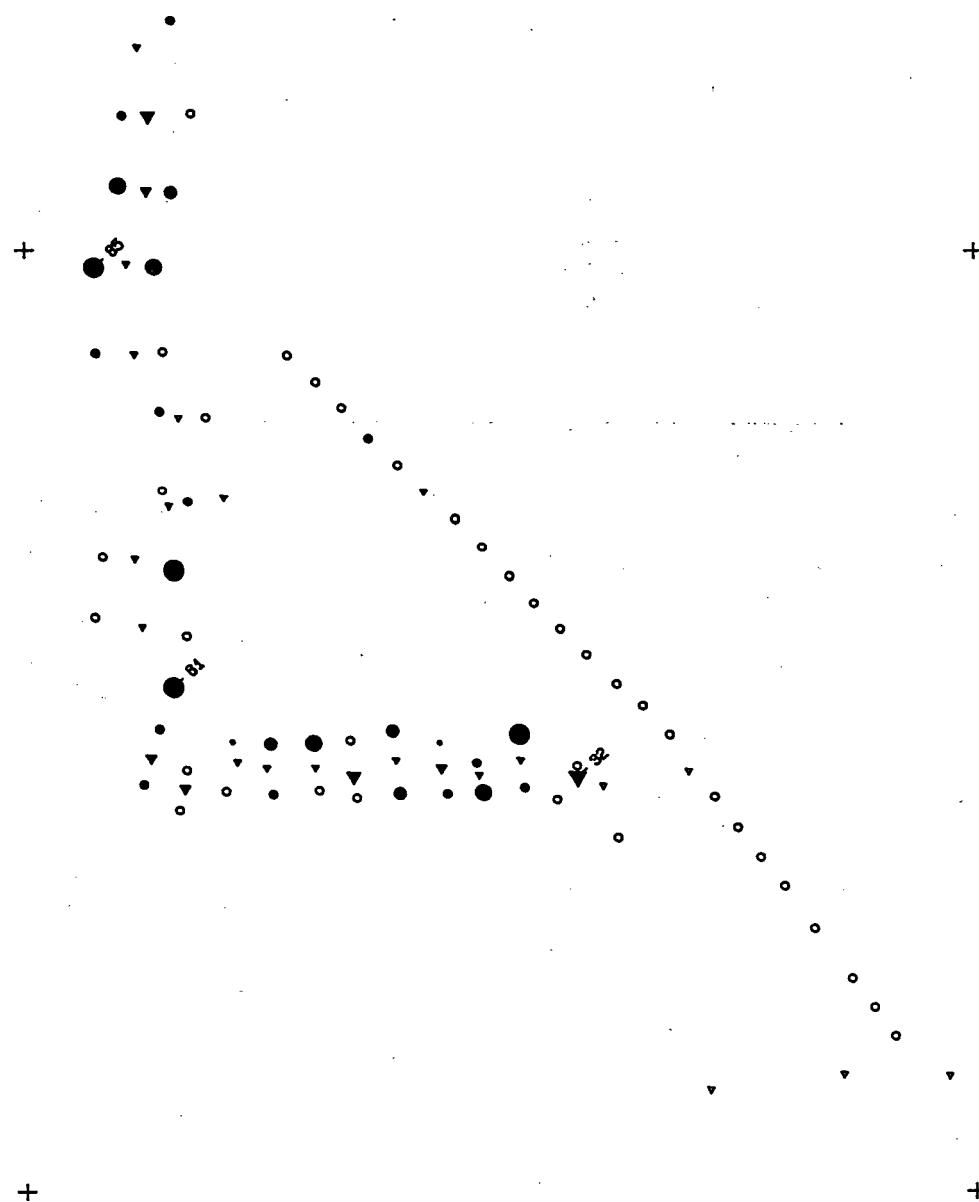
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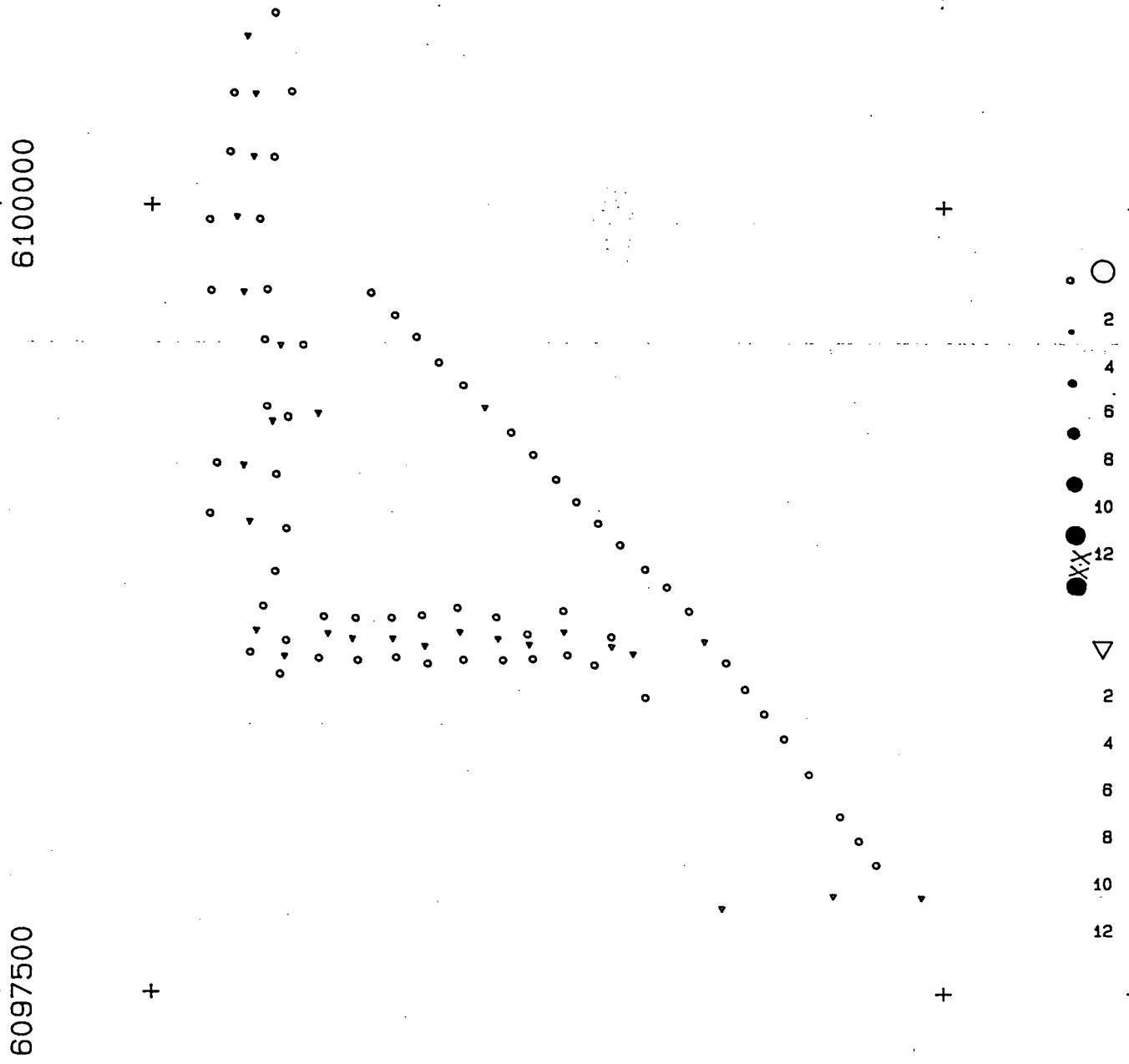
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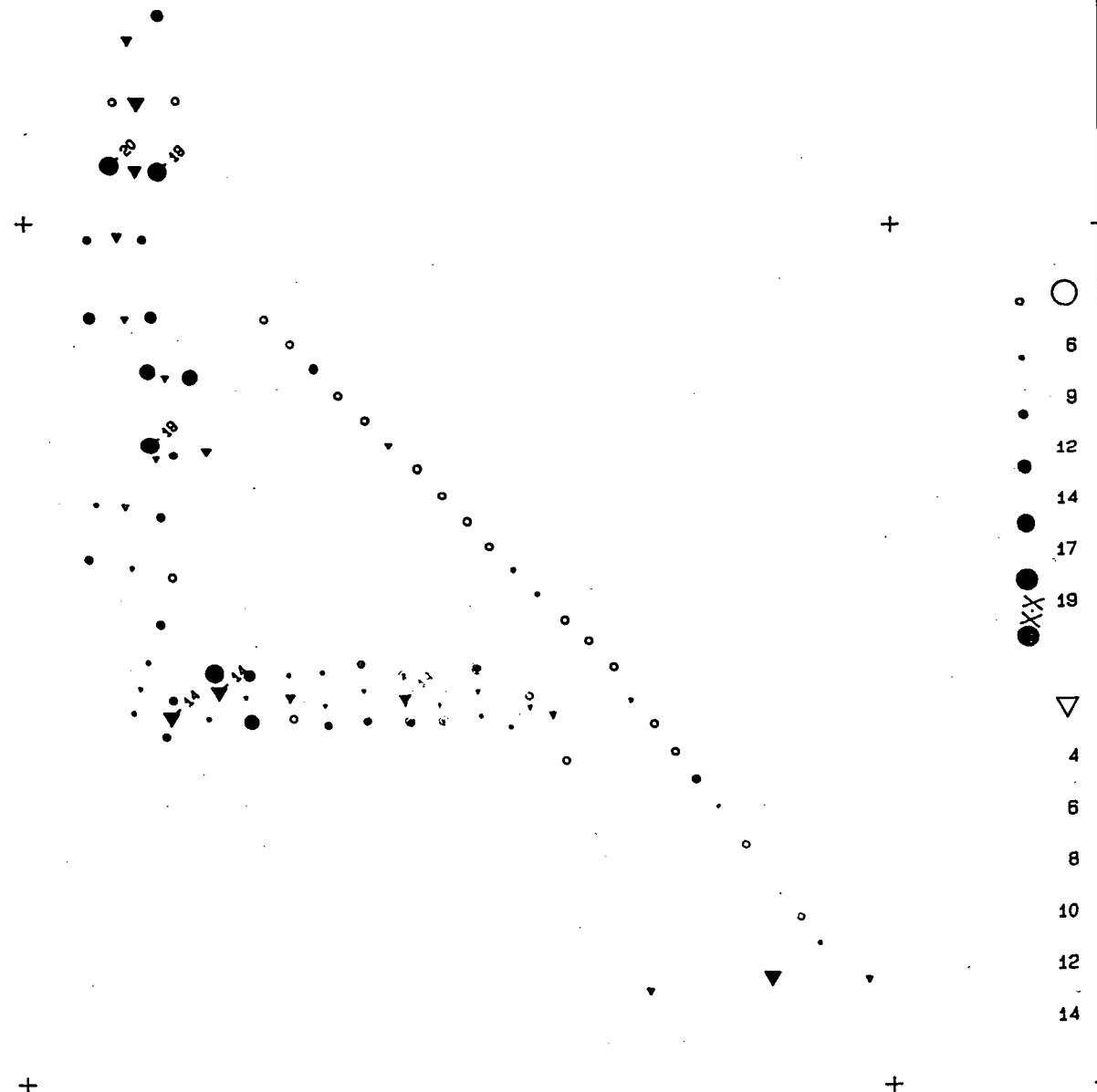
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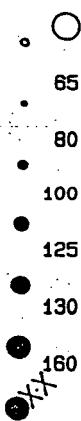
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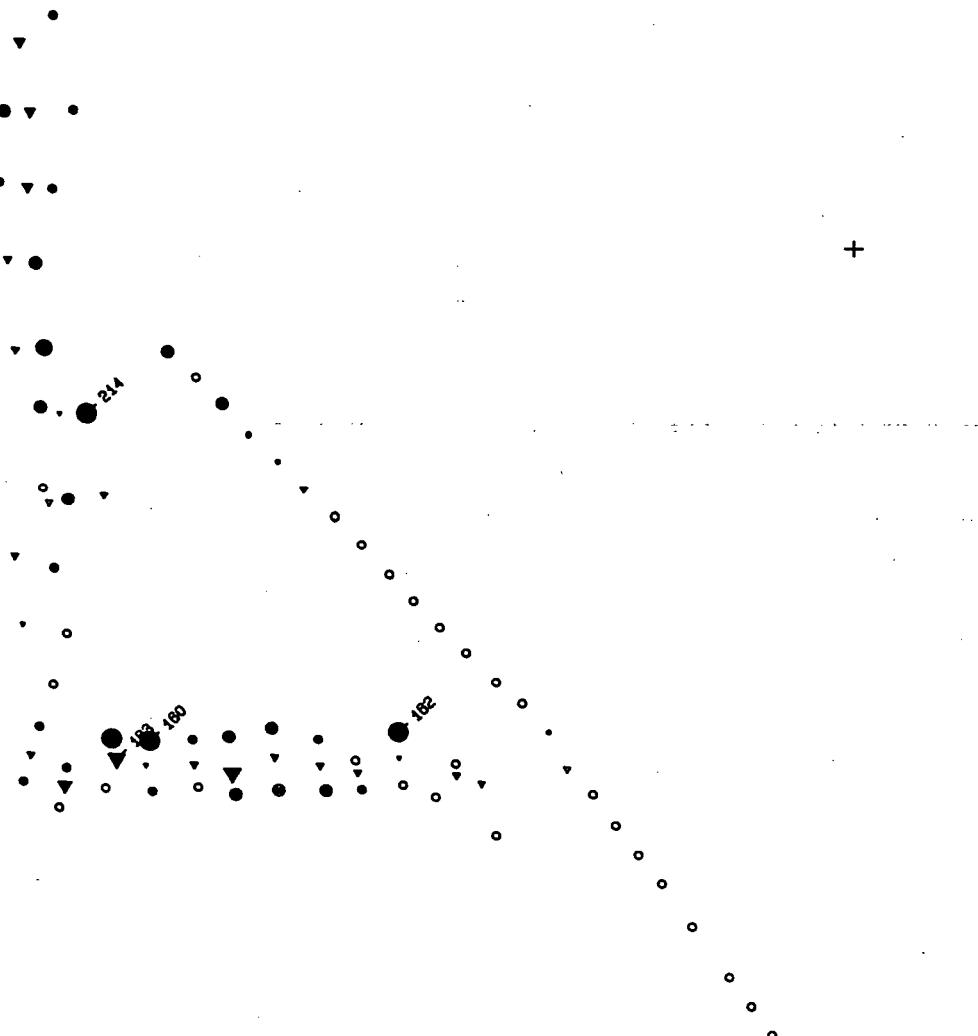
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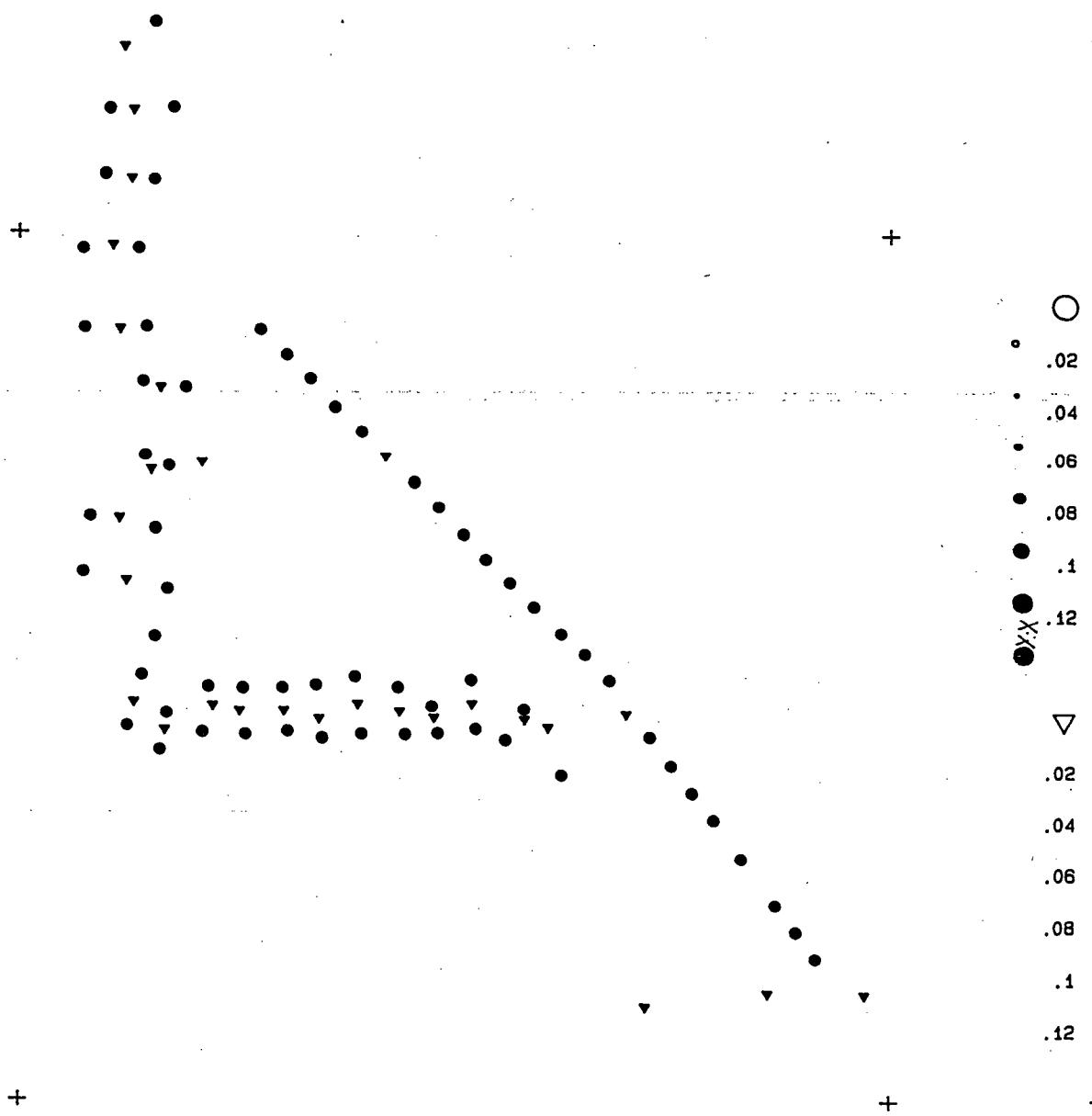
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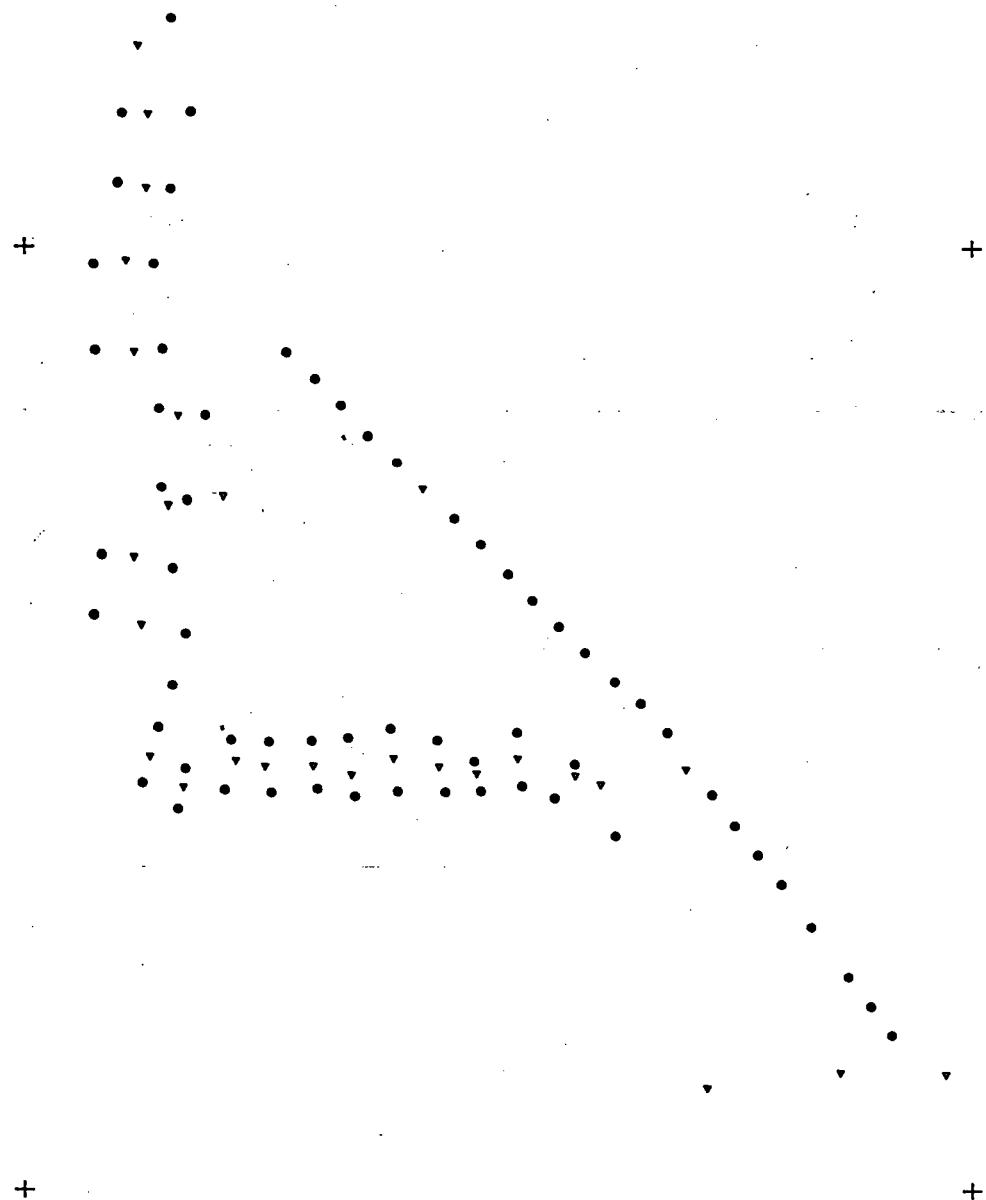
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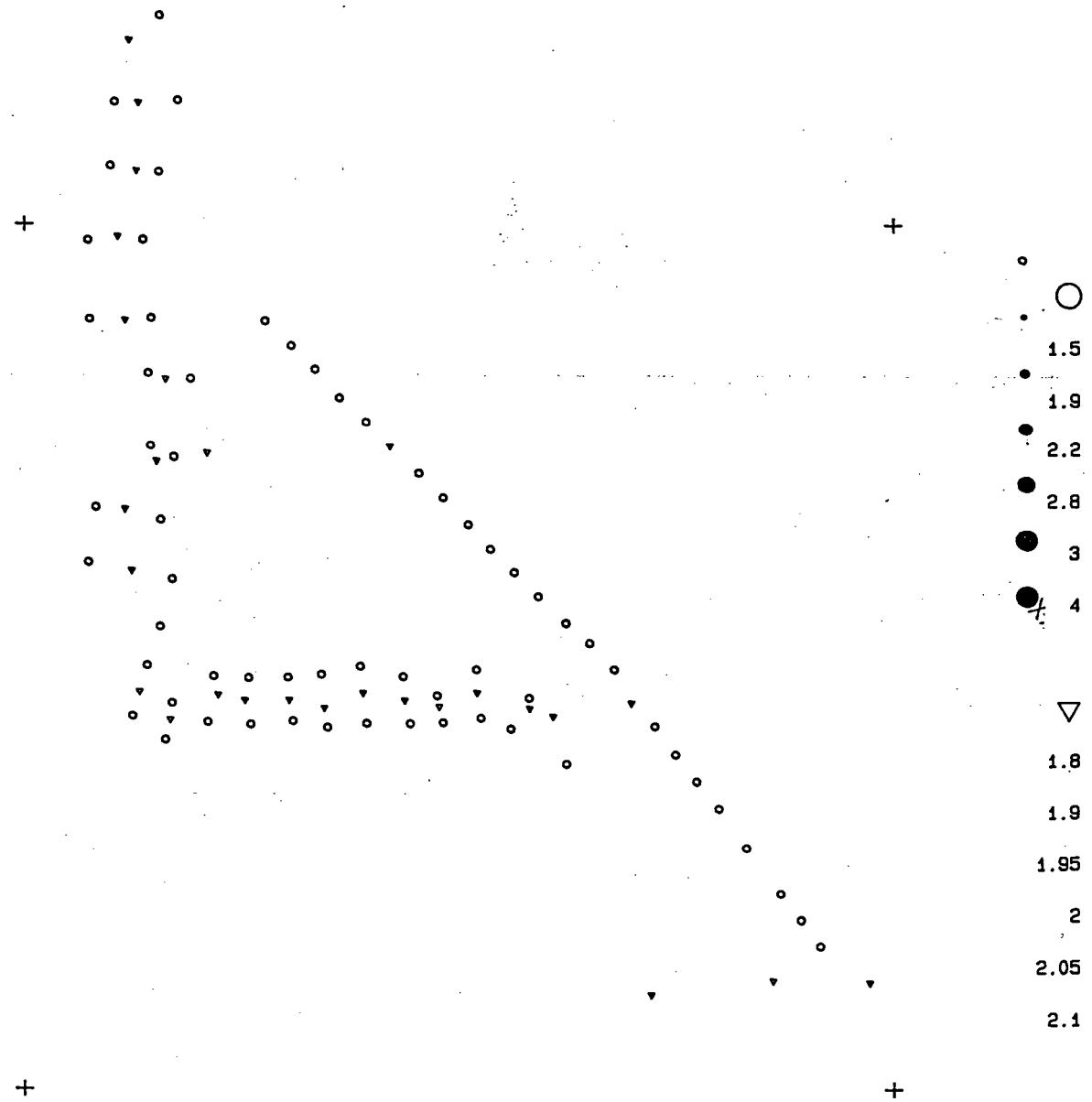
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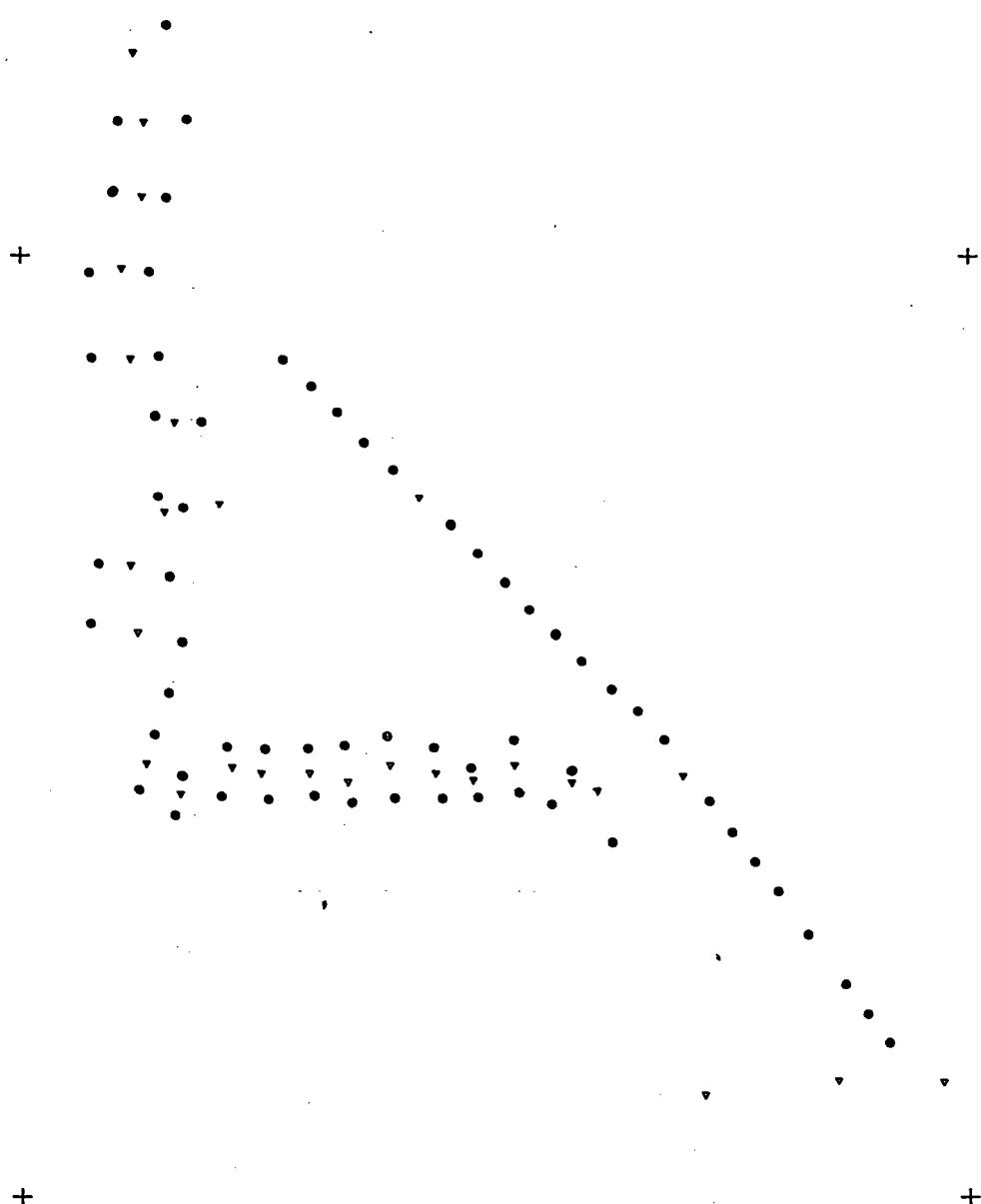
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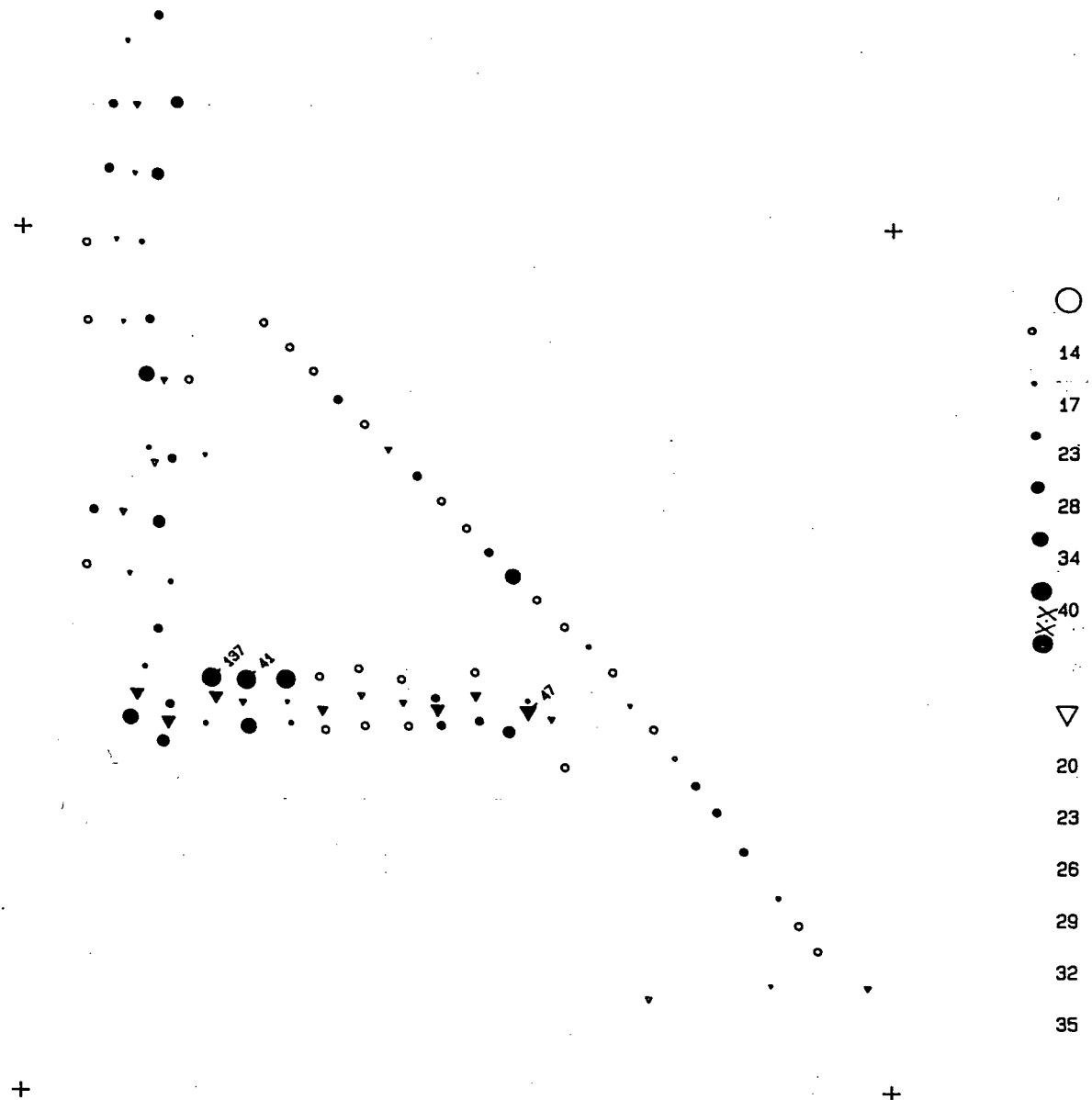
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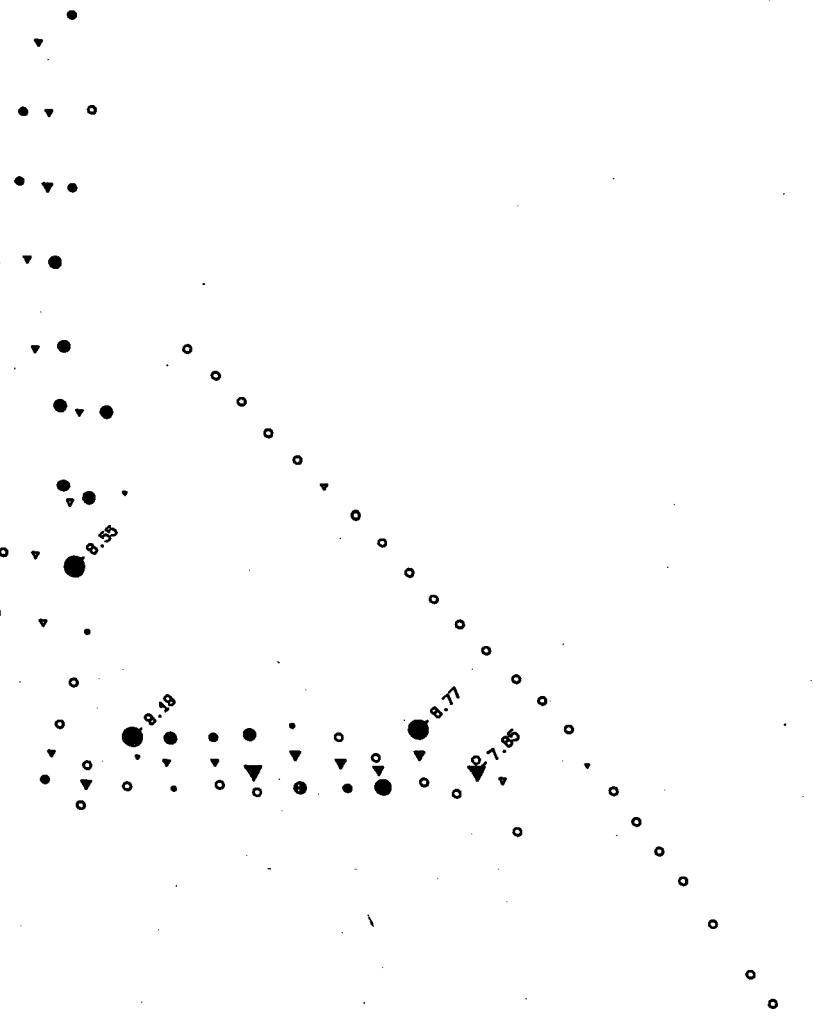
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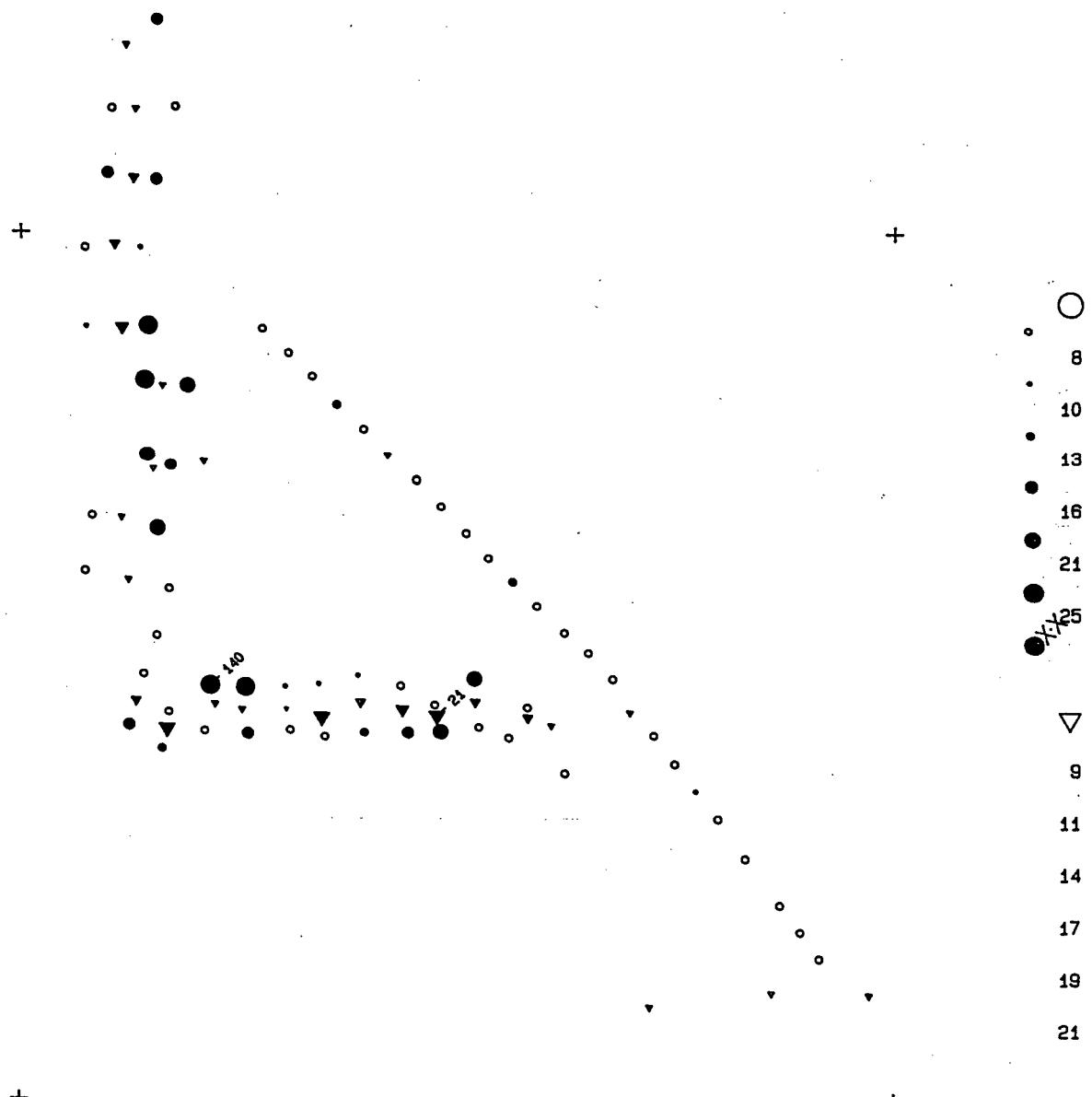
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APPENDIX C
STATEMENT OF COSTS

PHIL 17

STATEMENT OF COSTSGEOLOGICAL SURVEY

4 mandays @ \$119.70/day	\$ 478.80
4 mandays @ \$ 61.60/day	246.40

OPERATING COSTS (Equipment, Rental, Room
and Board, etc.)

8 mandays @ \$75.00/day	600.00
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GEOCHEMICAL ANALYSIS (Au, Hg & 30 element ICP)

91 Soil Samples @ \$15.57/sample	1416.87
5 Rock Samples @ \$19.75/sample	98.75

TRANSPORTATION

Helicopter 1.7 hours @ \$497.50/hour	845.75
Truck Rental - \$50/day - 4 days	200.00
(included fuel, maintenance, etc.)	

DATA PROCESSING

96 Samples @ \$2.00/sample	192.00
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REPORT PREPARATION

Geologist - 3 mandays @ \$119.70/day	359.10
Geochemist - 1 manday @ \$300/day	300.00
Drafting - 12 hours @ \$18.00/hour	216.00
Typing - 8 hours @ \$10/hour	80.00
Materials	<u>100.00</u>

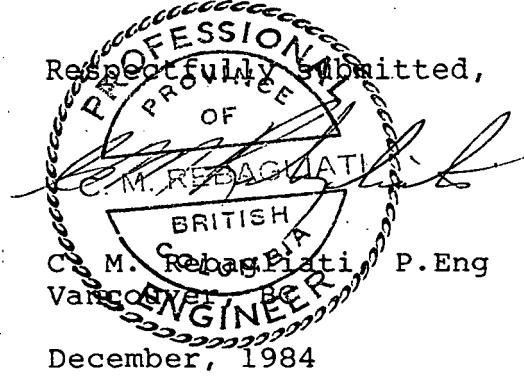
TOTAL COSTS	\$5,133.67
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APPENDIX D
STATEMENT OF QUALIFICATIONS

CERTIFICATE

I, C.M. Rebagliati, of Vancouver, in the Province of British Columbia, hereby certify the following:

1. That I am a registered Professional Engineer in the Province of British Columbia.
2. That I have practised my profession since graduation from the Haileybury School of Mines of Ontario in 1966 and from the Michigan Technological University in 1969 with a B.Sc. degree in Geological Engineering.
3. That I am presently employed by Selco Division - BP Resources Canada Limited in Vancouver as Senior Geologist.
4. That I supervised the project and I am familiar with all aspects of the exploration program.



STATEMENT OF QUALIFICATIONS

Neil Humphreys

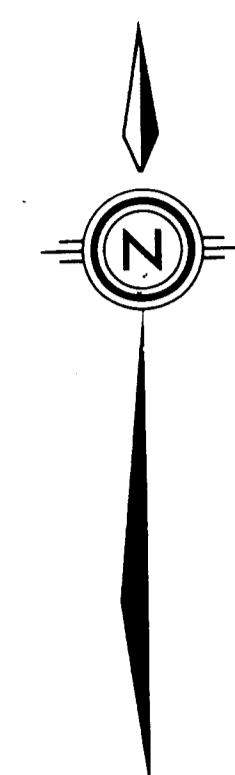
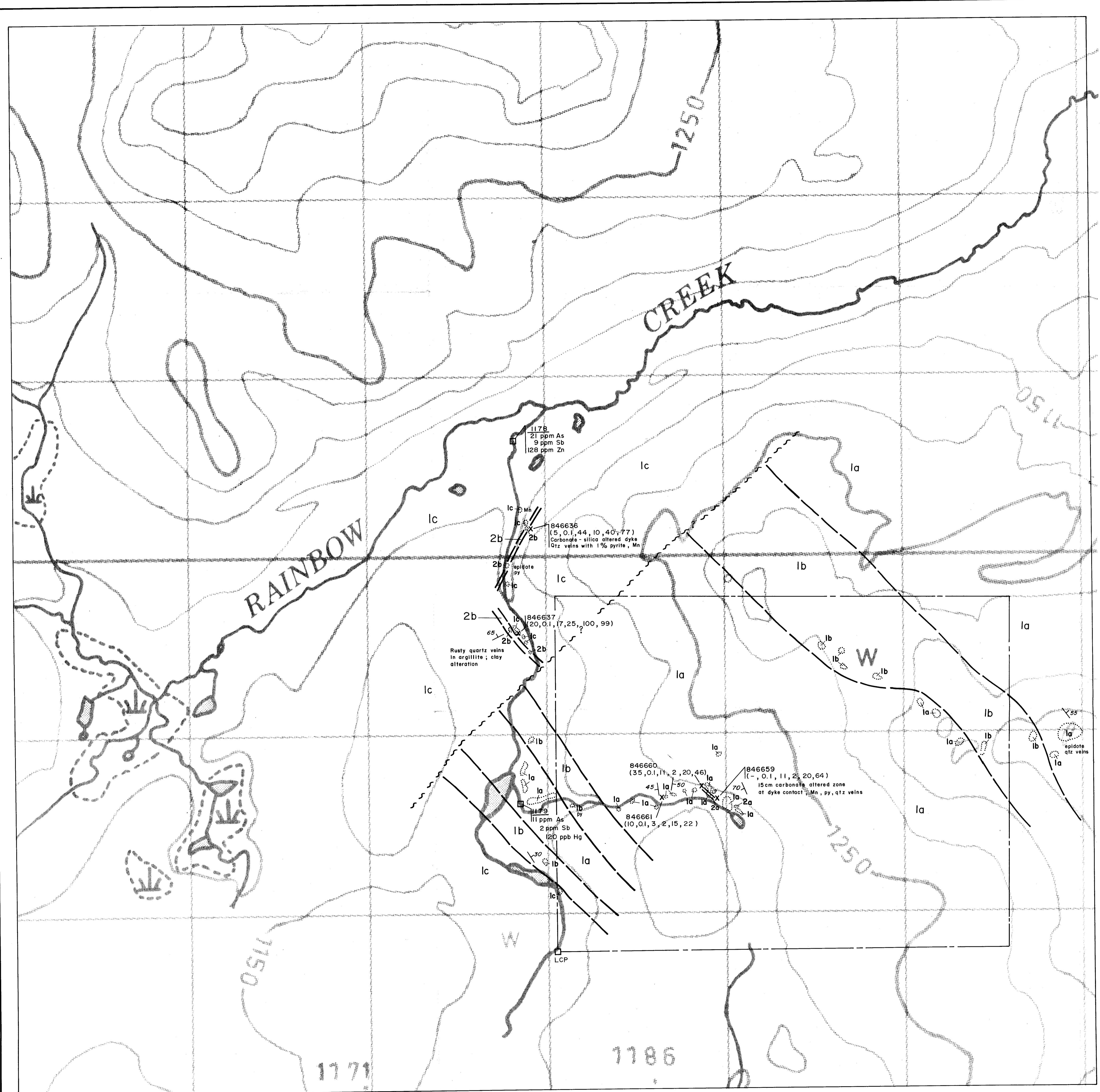
I, Neil Humphreys, of 7647 West 14th Avenue, Vancouver, British Columbia hereby certify that:

1. I am a qualified geologist residing at the above address.
2. I have been practicing my profession since graduation from the University of Saskatchewan with a B.Sc. degree in Geology (1976).
3. That I am presently an employee of Selco Division - BP Resources Canada Limited as a geologist.
4. That I personally supervised geological and geochemical examination of the PHIL 17 Group of Claims and interpreted results herein.
5. I hold no interest, direct or indirect in the PHIL 17 Group of Claims.

Respectfully submitted,

Neil Humphreys
Project Geologist

December 1984



LEGEND

JURASSIC (?)

INTRUSIVE ROCKS

- 2a. Leucocratic Feldspar Porphyry Dykes
 - 2b. Hornblende (augite) Diorite Dykes

TRIASSIC

TAKLA GROUP

- 1a. Green Andesite Tuff, Breccia
 - 1b. Green Andesite Augite-Porphyry Flows,
Flow Breccia
 - 1c. Black Shale, Volcanic Sandstone, Minor
Argillaceous Tuff

- ::: Outcrop
- — Geological Contact
- ~~X⁵⁰~~ Bedding
- ~~~ Fault

Rock Chip Sample Location with Results:
11,2,20,64) (Au ppb, Ag ppm, As ppm, Sb ppm, Hg ppb, Cu ppm)

1179 Government Survey Stream Sediment Anomaly

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,508

METRES

**SELCO DIVISION -
BP RESOURCES CANADA LIMITED**

**PHIL 17 PROPERTY
TAKLA PROJECT - B.C.**

The logo consists of the letters "BP" in a bold, white, sans-serif font, enclosed within a black shield-shaped border.

**SELCO DIVISION -
BP RESOURCES CANADA LIMITED**

PHIL 17 PROPERTY TAKLA PROJECT - B.C. GEOLOGY

SCALE	I : 10,000	DRAWN BY:	N. HUMPHREYS	FIG.	2
DATE	DECEMBER 1984	DRAFTED BY:	S. G.		
N.T.S. 93N / IE		PROJ. 10215		REPORT BPVR - 84-29	