

'85-40-13505

ASSESSMENT REPORT ON THE
1984 GEOLOGICAL AND GEOCHEMICAL EXPLORATION ACTIVITIES
TWIN 1 CLAIMS
OMINECA MINING DIVISION
NTS 93N/11

Located approximately 46 km West of Manson Creek
Latitude 55°36' North; Longitude 125°12'

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

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,505

BPVR 84-22

Neil Humphreys
December, 1984

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SUMMARY

The Twin 1 property consists of 20 claim units near Germansen Lake, northwest of Fort St. James, B.C. The claims were staked to cover a government geochemical survey lead-silver-tungsten stream sediment anomaly.

The claims are underlain by Takla Group andesite and dacite lapilli tuffs and flows.

No significant alteration or mineralization was found on the property.

A weak arsenic soil anomaly approximately 700 metres long was found in the central part of the claims.

Additional soil sampling and prospecting in the area of the anomaly is recommended.

INTRODUCTION

The 20 unit, Twin 1 property, was staked to cover a low-order lead-silver-tungsten anomaly found by the government geochemical reconnaissance program. Work consisting of geological mapping, prospecting and soil sampling was carried out between July 18 to 21, 1984 by Neil Humphreys, geologist, and Lyndon Miller, field assistant.

LOCATION AND ACCESS (Fig. 1)

NTS 93N/11E, Latitude $55^{\circ}36'$, Longitude $125^{\circ}12'$, Omineca Mining Division.

The claims are located near the headwaters of Kwanika and Twin Creeks, 18 km southwest of Germansen Lake, and 88 km northwest of Fort St. James. The claims straddle the Manson Creek to Takla Landing road and can be reached in about four hours by truck from Fort St. James.

CLAIM STATUS

		<u>RECORD #</u>	<u>RECORDING DATE</u>
TWIN 1	20 Units	6474	20 July, 1984

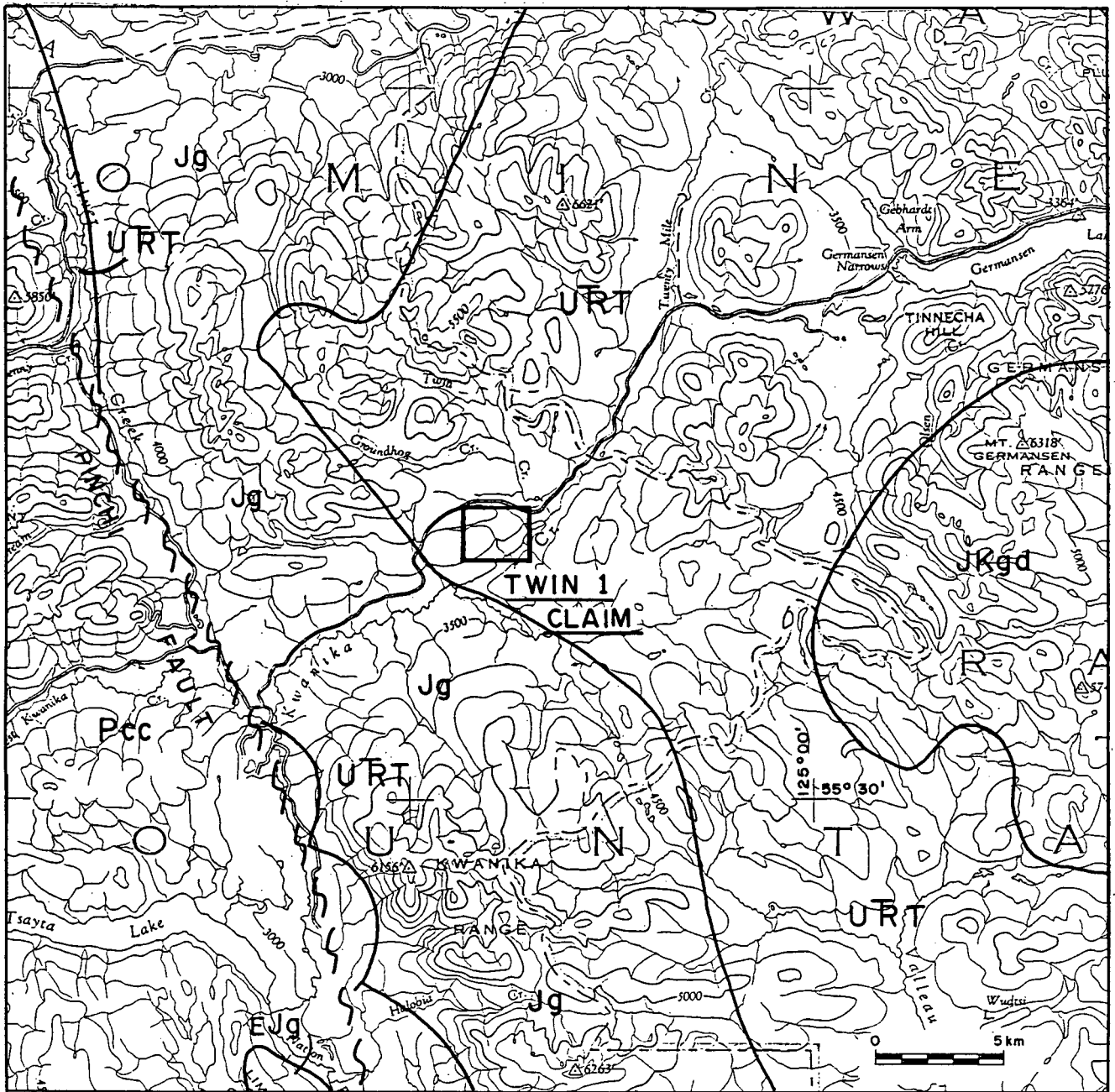
TOPOGRAPHY AND VEGETATION

The property lies on the gently rolling north bank of Kwanika Creek which crosses the southeastern corner of the claims.

Relief ranges from 1250 metres at the north end of the claims to 1050 metres at Kwanika Creek.

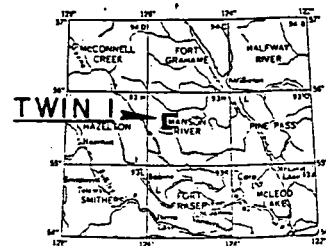
Spruce, pine and balsam fir trees cover most of the property.

Swampy drainages are common, particularly in the central part of the claims, but traversing is easy over most of the property.



LEGEND

- EKgd EARLY CRETACEOUS
NAVER INTRUSIONS
- JKgd JURASSIC - CRETACEOUS
INTRUSIVE ROCKS
- Jg JURASSIC
HOHEM BATHOLITH
- EJg EARLY JURASSIC
TOPLEY INTRUSIONS
- TJs UPPER TRIASSIC - LOWER JURASSIC
SITLIKA ASSEMBLAGE
- URT UPPER TRIASSIC
TAKLA GROUP
- PRub UPPER PALAEOZOIC - TRIASSIC
TREMBLEUR INTRUSIONS
- Pcc UPPER PALAEOZOIC
CACHE CREEK GROUP



SELCO DIVISION -
BP RESOURCES CANADA LIMITED

**TWIN 1 CLAIM
TAKLA PROJECT - B.C.
REGIONAL GEOLOGY &
CLAIM LOCATION MAP**

SCALE 1: 250,000	DRAWN BY: N. H.	FIG. 1
DATE DEC. 84	DRAFTED BY: L. G.	
N.T.S. 93 N	PROJ. 10215	REPORT BPVR 84-22

REGIONAL GEOLOGY (Fig. 1)

The Twin claims lie within the Intermontane tectonic belt near the eastern edge of the Juro-Cretaceous Hogem Batholith. The batholith is a complex, polyphase pluton of predominately granodiorite composition that has intruded Upper Triassic Takla Group basic volcanic and sedimentary rocks. These rocks 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 major structure in the region is the Pinchi Fault which lies 15 km west of the property and forms the western boundary of the Quesnel Trough.

Minor amounts of placer gold have been recovered over the years from Twin Creek, immediately east of the property. No other mineral occurrences are known in the near vicinity of the claims.

PROPERTY GEOLOGY (Fig. 2)

Outcrop is very sparse on the property except for a zone along the creek that parallels the road and the northern claim line. The outcrop and angular float that have been found suggest that the property is underlain entirely by Takla Group volcanic rocks.

Most of the outcrop seen is of two rock types; a maroon or green andesite lapilli tuff or breccia and a massive, maroon dacite flow rock. Bedding found in one outcrop indicates that the volcanics strike northwesterly and dip at about 30° to the northeast.

No significant mineralization or alteration was found on the property. The volcanics rocks are fresh with the exception of minor disseminated epidote occurring locally in the fragmental rocks. Up to 5% magnetite is disseminated in the volcanic rocks, but this is almost certainly of magmatic origin.

One piece of angular float, containing fracture fillings of chalcocite and hematite, was found in the northern part of the property. The rock is a leucocratic, aphanitic intrusive(?) unlike any outcrop or other float seen in the area. A sample from the float (846389) was anomalous only in copper (248 ppm).

GEOCHEMISTRY

A total of 91 soil, 16 stream sediment samples and one rock sample were collected on and near the Twin 1 claims. Soil samples were collected from banks along the anomalous stream and its tributary and from a reconnaissance line along the southern edge of the property. Soil horizons are generally well developed and most samples were collected from the 'B' soil horizon at a depth of 30

cm. The samples were analyzed for 30 elements by ICP and for gold by AA by Acme Analytical Labs at Vancouver. Overburden is probably not more than a few metres thick in most places on the claims.

The anomalous values in the government silt sample (1773) were not reproduced in BP-Selco samples collected along the 'anomalous creek'. A BP-Selco sample (846357) was collected from a branch of this creek that was anomalous in lead (20 ppm) and copper (127 ppm). This branch is only a few hundred metres long but is likely here where the anomalous government sample was collected.

The most significant anomaly found is an arsenic soil anomaly near the centre of the claims. Values range from 17 - 363 ppm arsenic for 9 samples over an area 700 metres long. Some single sample anomalies of zinc, antimony and copper are found within this zone.

CONCLUSIONS AND RECOMMENDATIONS

Little of interest was seen on the Twin 1 property. The rocks are fresh and only traces of sulphide were seen except in one piece of float found near the centre of the claims.

The weak arsenic soil anomaly is in an area where outcrop was not found and it is thus not possible to explain the source of the higher arsenic values. Outcrop found about 300 metres west of the anomaly is of fresh lapilli tuff.

A day should be spent prospecting and doing detailed soil sampling over the arsenic anomaly. This could be done easily and cheaply as the anomaly is only a few hundred metres from the access road to Fort St. James.

APPENDIX A
ROCK SAMPLE DESCRIPTIONS

APPENDIX AROCK SAMPLE DESCRIPTIONS

<u>SAMPLE #</u>	<u>DESCRIPTIONS</u>	<u>ANOMALOUS VALUES</u>	
846389	FLOAT: leucocratic, very fine grained, equigranular felsic intrusive(?) with chalcocite, malachite, hematite along fractures.	248 495	ppm Cu ppm Ba

APPENDIX B
GEOCHEMICAL RESULTS

SAMPLE #

	MO PPK	CU PPK	PB PPK	ZN PPK	AG PPK	NI PPK	CO PPK	MN PPK	FE I	AS PPK	U PPK	AU PPK	TH PPK	SR PPK	CD PPK	SB PPK	BI PPK	V PPK	CA I	P I	LA PPK	CR PPK	MG I	BA PPK	TI I	B PPK	AL I	NA I	K I	M PPK	AU# PPK
846269	1	18	5	32	.5	13	6	182	3.42	2	2	ND	2	17	1	2	2	67	.15	.25	7	27	.34	73	.02	5	2.22	.01	.05	2	ND
846270	1	34	17	43	.1	16	8	352	3.22	4	2	ND	2	18	1	2	4	66	.15	.09	9	33	.50	153	.02	2	1.91	.01	.06	2	10
846271	1	15	11	21	.1	14	7	330	1.61	3	2	ND	2	26	1	2	2	32	.24	.05	5	72	.35	107	.03	9	.59	.03	.08	2	5
846272	1	21	11	22	.1	16	7	259	2.21	4	2	ND	2	24	1	2	2	46	.21	.05	3	76	.46	64	.03	8	.94	.03	.09	2	5
846273	1	15	10	27	.1	8	4	109	3.36	2	2	ND	2	9	1	2	2	71	.09	.19	5	32	.23	72	.01	2	1.94	.01	.03	2	5
846274	1	11	11	14	.5	4	4	132	2.23	2	2	ND	2	18	1	2	2	50	.14	.03	4	11	.15	95	.02	7	.87	.01	.06	2	10
846275	1	11	8	38	.3	18	5	143	2.64	3	2	ND	2	12	1	3	2	50	.14	.11	4	72	.36	63	.04	8	1.22	.01	.03	2	10
846276	4	110	4	108	.5	29	18	6973	6.34	4	2	ND	2	139	1	4	2	60	1.34	.24	24	63	.46	1672	.01	2	2.33	.01	.06	2	ND
846277	1	21	6	24	.1	12	6	264	2.15	2	2	ND	2	28	1	2	2	43	.31	.08	6	28	.40	111	.04	9	.86	.01	.05	2	ND
846278	1	70	9	82	.2	38	11	344	4.05	8	2	ND	2	17	1	5	2	81	.28	.22	6	63	.81	153	.02	4	2.25	.01	.08	2	ND
846279	1	74	16	39	.1	31	13	1342	3.17	4	2	ND	2	44	1	2	2	55	.60	.12	27	98	.65	649	.02	5	2.03	.01	.11	2	ND
846280	1	29	15	34	.1	21	6	268	2.63	2	2	ND	3	20	1	2	2	50	.19	.15	5	45	.47	114	.04	4	1.89	.01	.04	2	ND
846281	2	31	19	30	.2	11	7	660	2.27	4	2	ND	2	37	1	2	2	38	.36	.09	8	81	.38	222	.02	2	.72	.03	.08	2	ND
846282	2	22	8	26	.4	9	7	170	3.74	2	2	ND	3	15	1	2	2	85	.10	.04	6	29	.37	129	.01	3	1.37	.01	.05	2	ND
846283	1	25	7	39	.2	15	7	212	2.99	3	2	ND	2	21	1	2	2	61	.22	.10	6	41	.48	119	.03	14	1.50	.01	.06	2	10
STD	21	160	38	90	2.1	694	14	612	3.66	10	2	ND	2	25	1	8	2	46	1.54	.11	5	90	.63	89	.04	30	.83	.04	.22	2	-
846284	2	17	40	36	.1	8	7	242	2.61	2	2	ND	3	17	1	2	5	47	.20	.04	14	23	.26	517	.01	3	1.05	.01	.09	2	ND
846285	2	24	12	22	.2	4	4	192	2.21	2	2	ND	2	15	1	2	2	54	.17	.02	8	12	.24	378	.01	2	1.24	.01	.04	2	5
846286	3	24	6	26	.1	6	5	499	2.01	2	2	ND	2	27	1	2	2	32	.28	.08	7	52	.33	156	.02	6	.56	.02	.07	2	ND
846287	2	7	11	17	.1	8	3	108	2.54	2	2	ND	2	14	1	2	2	58	.13	.08	6	22	.25	100	.02	9	1.28	.01	.04	2	ND
846288	2	14	11	19	.2	7	3	80	2.46	2	2	ND	2	14	1	2	2	54	.10	.04	8	18	.12	156	.02	2	.83	.01	.07	2	ND
846289	2	11	22	13	.1	10	4	97	2.26	2	2	ND	2	19	1	2	2	54	.18	.02	5	29	.17	97	.04	8	.58	.01	.05	2	5
846290	1	7	14	25	.1	6	4	173	2.81	2	2	ND	2	10	1	2	2	71	.08	.06	5	17	.14	65	.02	3	1.30	.01	.03	2	25
846291	3	38	11	37	.1	13	8	807	2.79	12	2	ND	2	30	1	2	2	45	.34	.11	9	69	.46	231	.02	7	.76	.02	.10	2	10
846292	1	14	5	18	.1	12	4	117	2.14	2	2	ND	2	15	1	2	2	49	.13	.03	5	41	.26	118	.03	2	.80	.01	.04	2	ND
846293	2	45	17	52	.5	12	11	952	3.10	2	2	ND	2	28	1	2	2	66	.54	.18	6	17	.75	548	.01	2	1.75	.01	.07	2	5
846294	1	37	13	44	.3	11	9	291	4.70	5	2	ND	2	21	1	3	2	73	.26	.08	5	48	.33	276	.01	6	1.24	.01	.18	2	ND
846295	1	12	11	27	.2	3	5	171	3.09	2	2	ND	2	12	1	2	2	70	.08	.09	4	20	.18	75	.02	8	1.37	.01	.04	2	ND
846296	3	38	10	37	.1	14	7	802	2.79	11	2	ND	2	47	1	2	2	48	.52	.12	11	81	.43	334	.02	2	.83	.02	.09	2	5
846297	1	56	6	48	.1	10	8	1417	3.18	2	2	ND	2	17	1	2	2	44	.30	.14	5	35	.22	404	.02	8	1.09	.01	.21	2	ND
846298	1	14	5	36	.6	11	7	255	2.59	2	2	ND	2	23	1	2	2	60	.26	.03	4	33	.40	401	.03	6	1.34	.01	.04	2	ND
846299	1	14	14	26	.1	9	5	140	2.19	2	2	ND	2	14	1	2	2	56	.12	.03	4	27	.25	146	.03	5	.99	.01	.04	2	5
846300	1	37	8	53	.3	9	6	176	2.85	22	2	ND	2	9	1	2	2	42	.11	.12	4	15	.31	134	.01	2	1.48	.01	.10	2	ND
846301	1	45	1	42	.1	9	6	226	1.86	2	2	ND	2	52	1	2	2	40	.69	.19	17	30	.43	421	.01	2	.98	.01	.05	2	5
846302	1	34	8	30	.3	8	7	226	3.38	11	2	ND	2	20	1	2	2	76	.19	.06	2	17	.38	257	.01	3	1.30	.01	.10	2	5
STD S-1	94	123	116	184	33.8	152	81	465	3.17	120	103	38	177	127	83	79	92	59	.56	.12	133	63	.58	123	.08	174	1.50	.23	.23	66	-

SAMPLE #	NO 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 %	KA %	K %	W PPM	AU** PPM
846303	2	34	10	62	.2	26	9	419	3.96	7	2	ND	2	8	1	2	4	79	.07	.08	3	65	1.35	56	.04	7	2.31	.01	.03	2	5
846304	2	45	5	71	.1	29	8	507	5.46	2	2	ND	2	7	1	2	7	82	.07	.17	2	72	1.47	98	.04	6	2.66	.01	.04	2	ND
846305	2	44	11	75	.1	25	8	747	4.35	4	2	ND	2	10	1	2	2	49	.08	.15	5	41	.61	69	.02	15	1.93	.01	.02	2	20
846306	3	101	5	99	.1	58	24	1287	6.07	18	2	ND	2	18	1	2	2	49	.17	.13	6	42	.80	84	.04	6	2.36	.01	.04	2	5
846307	2	167	12	98	.1	71	26	1119	7.09	13	2	ND	2	14	1	2	4	59	.22	.17	5	53	1.64	65	.05	9	3.38	.01	.04	2	ND
846308	1	32	15	80	.1	40	12	453	4.32	3	2	ND	2	11	1	2	2	90	.18	.15	2	134	.79	83	.02	17	1.79	.01	.02	2	ND
846309	1	6	10	31	.1	15	5	491	2.81	4	2	ND	2	15	1	2	2	68	.17	.07	3	63	.25	52	.03	14	.90	.01	.03	2	ND
846310	1	9	11	41	.1	20	7	869	3.39	2	2	ND	2	11	1	2	2	79	.16	.07	2	95	.46	84	.04	7	1.10	.01	.02	2	ND
846311	2	8	7	19	.1	15	4	110	3.95	3	2	ND	2	11	1	4	2	106	.13	.03	2	84	.21	81	.04	6	.95	.01	.02	2	ND
846312	1	5	13	63	.1	14	5	327	3.22	2	2	ND	2	9	1	3	2	70	.11	.14	2	73	.23	76	.02	13	1.45	.01	.01	2	ND
846313	2	22	5	37	.1	14	8	1568	2.48	2	2	ND	2	34	1	2	2	47	.34	.07	4	70	.60	257	.04	17	.87	.03	.08	2	5
846314	3	24	7	35	.1	12	7	900	3.39	3	2	ND	2	32	1	2	2	74	.30	.06	4	49	.40	259	.02	11	1.04	.01	.07	2	10
846315	1	11	2	39	.2	14	4	184	3.11	2	2	ND	2	10	1	4	2	70	.13	.11	2	56	.29	96	.01	10	1.64	.01	.03	2	ND
846316	1	25	8	45	.1	17	9	1234	2.60	4	2	ND	2	38	1	2	2	50	.45	.12	7	58	.72	317	.03	11	1.08	.02	.07	2	ND
846317	2	20	8	37	.4	18	5	255	4.23	4	2	ND	2	14	1	4	2	80	.17	.18	2	65	.43	226	.01	14	1.79	.01	.04	2	5
846318	1	12	17	59	.1	21	9	466	4.19	3	2	ND	2	49	1	2	2	95	.34	.17	2	67	.84	111	.06	5	1.55	.01	.03	2	ND
846319	2	23	4	38	.1	14	7	1645	2.57	4	2	ND	2	35	1	2	2	48	.35	.08	4	68	.62	274	.04	13	.89	.03	.09	2	10
846320	1	25	5	25	.1	19	5	298	1.95	3	2	ND	2	19	1	2	2	40	.31	.09	5	46	.47	157	.04	12	.71	.01	.03	2	ND
846321	2	25	11	43	.1	17	8	1423	2.64	3	2	ND	2	31	1	2	2	49	.34	.08	4	65	.59	318	.03	13	.95	.02	.08	2	ND
846322	1	25	10	27	.1	29	9	399	3.33	2	2	ND	2	22	1	2	2	69	.40	.08	4	96	.46	232	.03	10	.86	.01	.04	2	ND
STD	23	157	44	84	2.0	674	12	619	3.50	9	2	ND	2	24	1	8	2	44	1.48	.11	3	83	.60	86	.04	34	.79	.04	.22	2	-
846323	2	18	8	34	.1	10	4	516	2.31	2	2	ND	2	15	1	2	2	51	.18	.04	4	34	.30	200	.02	7	.81	.01	.05	2	5
846324	3	22	4	31	.1	19	7	749	2.37	3	2	ND	2	28	1	2	3	46	.36	.07	5	73	.63	165	.04	11	.81	.02	.07	2	5
846325	2	11	7	31	.1	11	4	211	2.96	2	2	ND	2	11	1	2	2	63	.13	.06	4	52	.21	124	.01	6	.87	.01	.04	2	5
846326	2	32	4	46	.1	29	7	459	2.66	2	2	ND	2	22	1	2	2	44	.28	.09	9	57	.62	347	.03	10	1.19	.01	.05	2	5
846327	2	21	16	67	.3	14	4	283	4.36	3	2	ND	5	11	1	2	3	73	.15	.50	4	52	.38	95	.02	8	3.51	.01	.04	2	5
846328	3	16	3	58	.1	13	7	179	4.13	2	2	ND	2	13	1	2	2	81	.14	.21	3	46	.42	180	.02	6	2.49	.01	.03	2	10
846329	1	14	8	54	.2	6	3	242	2.84	2	2	ND	4	9	1	3	2	61	.09	.11	5	21	.26	70	.01	13	1.78	.01	.04	2	5
846330	3	29	8	39	.2	27	8	505	3.79	4	2	ND	3	16	1	2	2	68	.21	.12	4	76	.53	216	.03	13	1.26	.01	.04	2	ND
846331	3	38	4	71	.2	16	7	490	3.87	10	2	ND	2	12	1	7	2	56	.13	.09	7	25	.27	149	.02	12	.95	.01	.04	2	15
846332	1	39	7	81	.5	41	7	493	5.80	8	2	ND	2	7	1	2	2	85	.06	.11	2	59	1.39	44	.11	13	2.63	.01	.06	2	ND
846333	1	55	3	50	.1	34	11	896	3.15	7	2	ND	2	37	1	2	2	53	.44	.09	4	72	.98	148	.06	13	1.23	.02	.08	2	5
846334	1	77	11	131	.1	45	20	2003	5.68	17	2	ND	2	20	1	2	2	65	.12	.14	3	52	1.24	114	.02	11	2.64	.01	.04	2	ND
846335	1	168	8	89	.2	75	21	943	5.11	30	2	ND	2	42	1	3	2	40	.50	.19	8	41	1.45	51	.02	12	2.00	.01	.05	2	5
846336	1	56	9	62	.2	35	11	936	3.42	46	2	ND	2	57	1	5	2	50	.64	.11	5	70	.86	172	.04	14	1.19	.02	.08	2	ND
846337	1	71	5	71	.1	39	12	1051	4.30	44	2	ND	2	25	1	12	2	44	.28	.12	3	59	.53	166	.02	8	1.02	.02	.06	2	10
846338	1	63	18	97	.3	48	13	1166	4.51	8	2	ND	2	39	1	5	2	36	.42	.15	2	30	.51	133	.01	8	1.26	.01	.04	2	10
846339	1	75	7	70	.3	32	11	605	5.06	363	2	ND	2	12	1	7	2	68	.16	.11	2	45	.99	75	.02	5	1.89	.01	.07	2	5
846340	1	77	9	100	.3	41	17	1092	5.70	167	2	ND	2	68	1	4	2	92	.65	.12	4	83	1.75	72	.03	11	2.87	.01	.05	2	ND
846341	2	18	1	43	.2	9	6	318	2.72	5	2	ND	2	18	1	3	2	65	.19	.10	2	26	.46	170	.01	10	1.51	.01	.05	2	ND
STD 5-1	94	123	115	183	32.7	152	80	494	3.17	117	96	36	176	127	82	87	92	59	.56	.12	129	63	.58	122	.08	184	1.50	.22	.22	62	-

SAMPLE #	NO PPM	CU PPM	PB PPM	ZN PPM	AG PPM	NI PPM	CO PPM	MN PPM	FE I	AS PPM	U PPM	AU PPM	TH PPM	SR PPM	CD PPM	SB PPM	BI PPM	V PPM	CA I	P I	LA PPM	CR PPM	MG I	BA PPM	TI I	B PPM	AL I	NA I	K I	W PPM	AU** PPB
846342	2	53	5	83	.4	39	13	1197	4.46	11	2	ND	2	31	1	2	2	66	.29	.07	3	45	.77	136	.03	5	1.82	.01	.03	2	5
846343	1	84	2	67	.8	46	11	362	6.39	2	2	ND	2	5	1	2	2	111	.07	.11	2	76	1.48	52	.20	2	2.42	.01	.03	2	5
846344	1	147	6	108	.2	55	32	1212	6.59	2	2	ND	2	37	1	2	2	96	.43	.18	2	56	2.23	72	.11	4	2.89	.01	.12	2	ND
846345	1	79	21	113	.4	37	25	5338	4.94	2	2	ND	2	21	1	2	2	50	.18	.33	5	32	1.27	227	.02	2	2.10	.01	.08	2	ND
846346	1	49	10	72	.2	34	10	767	3.48	28	2	ND	2	37	1	2	2	51	.37	.09	4	52	.92	116	.06	3	1.55	.01	.09	2	ND
846347	1	51	5	86	.4	27	8	1094	3.53	27	2	ND	2	103	1	3	2	51	.87	.13	7	41	.69	110	.05	2	2.06	.01	.09	2	ND
846348	1	35	7	99	.5	21	6	848	2.85	32	2	ND	2	84	1	2	2	46	.66	.15	4	32	.49	138	.03	2	1.62	.01	.08	2	ND
846349	1	23	7	38	.1	10	2	198	2.30	2	2	ND	2	12	1	3	2	54	.07	.07	3	22	.23	123	.02	2	1.21	.01	.03	2	ND
846350	2	29	10	114	.4	18	6	2094	3.05	3	2	ND	2	83	1	2	2	39	.70	.21	2	23	.37	110	.02	4	1.16	.01	.07	2	5
846351	2	83	10	68	.2	53	17	1231	3.51	3	2	ND	2	22	1	2	2	58	.26	.12	6	79	1.31	127	.05	10	1.74	.02	.15	2	ND
846352	1	134	8	88	.6	87	24	920	4.65	15	2	ND	2	22	1	2	2	53	.37	.12	3	94	1.98	57	.18	2	2.55	.01	.34	2	ND
846353	2	38	9	40	.6	32	5	354	4.30	2	2	ND	2	6	1	2	3	46	.09	.12	2	86	.80	71	.11	2	1.81	.01	.05	2	ND
846354	2	36	7	72	.4	24	10	359	3.72	3	2	ND	2	34	1	2	3	53	.45	.11	4	58	1.16	80	.10	4	2.14	.01	.08	2	ND
846355	3	23	15	40	.2	12	4	319	2.20	3	2	ND	2	13	1	2	3	42	.10	.08	4	25	.37	79	.03	5	1.36	.01	.01	2	ND
846356	2	62	15	84	.1	26	13	727	4.59	9	2	ND	2	30	1	2	7	65	.21	.12	8	38	.85	108	.05	6	2.00	.01	.10	2	ND
846357	1	127	20	138	.2	40	22	1248	6.47	22	2	ND	2	18	1	2	3	73	.34	.14	9	66	2.39	83	.13	5	3.29	.01	.35	3	ND
846358	2	94	11	130	.1	27	14	810	4.69	36	2	ND	2	26	1	2	3	36	.29	.17	9	24	1.39	92	.03	8	2.31	.01	.10	2	ND
846359	2	72	1	74	.4	20	8	495	3.59	4	2	ND	2	7	1	2	2	30	.06	.12	4	18	1.00	68	.02	6	1.85	.01	.07	2	ND
846360	1	38	4	64	.1	22	9	539	4.03	8	2	ND	2	8	1	2	2	63	.06	.12	3	50	1.20	70	.03	2	2.16	.01	.03	2	5
846361	1	68	8	100	.2	56	21	701	6.00	14	2	ND	2	17	1	2	2	89	.20	.12	3	80	2.00	47	.07	2	3.16	.01	.04	2	15
STD	21	161	40	88	2.3	684	12	609	3.63	11	2	ND	2	25	1	10	2	46	1.52	.11	2	87	.62	87	.04	25	.85	.04	.23	2	-
846362	2	30	6	56	.4	10	6	312	5.42	13	2	ND	3	14	1	3	2	86	.14	.54	2	38	.39	158	.01	2	2.71	.01	.06	2	10
846363	1	8	3	21	.1	7	5	119	2.09	2	2	ND	2	14	1	2	2	48	.13	.06	3	23	.28	137	.03	5	1.00	.01	.03	2	5
846364	1	24	17	28	.3	11	7	462	2.34	2	2	ND	2	29	1	4	2	45	.41	.09	7	49	.50	261	.03	6	1.13	.02	.07	2	ND
846365	1	33	6	56	.1	9	11	976	3.69	2	2	ND	2	32	1	2	2	83	.40	.07	2	41	1.31	268	.02	3	2.37	.02	.09	2	5
846366	1	27	1	33	.1	13	7	580	2.71	3	2	ND	2	25	1	4	2	56	.30	.10	4	60	.57	168	.03	6	1.21	.02	.07	2	10
846367	1	20	4	30	.1	12	7	511	2.78	6	2	ND	3	23	1	2	2	56	.28	.11	4	55	.50	145	.03	9	1.22	.02	.06	2	20
846368	1	20	9	49	.1	17	6	594	2.74	5	2	ND	2	25	1	2	2	54	.30	.13	4	77	.57	144	.04	9	1.22	.02	.06	2	15
846369	2	10	9	45	.1	20	6	315	3.03	2	2	ND	3	11	1	2	2	60	.16	.17	4	90	.35	82	.03	4	1.35	.01	.03	2	ND
846370	2	9	2	31	.1	22	4	171	2.79	2	2	ND	3	10	1	2	2	57	.15	.13	3	92	.31	72	.03	11	1.01	.01	.02	2	ND
846371	2	12	9	33	.1	18	7	422	2.92	2	2	ND	2	8	1	2	3	60	.13	.12	3	85	.31	51	.03	2	.96	.01	.02	2	ND
846372	2	9	7	30	.1	13	5	444	2.85	4	2	ND	2	9	1	2	5	61	.13	.11	4	88	.30	61	.04	2	1.00	.01	.02	2	ND
846373	3	13	17	36	.2	28	8	204	3.34	2	2	ND	3	9	1	2	2	70	.14	.09	3	123	.42	69	.05	5	.96	.01	.02	2	5
846374	3	16	11	25	.1	20	4	211	2.25	3	2	ND	2	11	1	2	3	46	.15	.07	5	66	.40	77	.04	2	.81	.01	.02	2	ND
846375	2	6	3	44	.2	20	5	171	1.97	3	2	ND	3	9	1	2	2	40	.14	.08	4	96	.38	65	.05	5	.89	.01	.02	2	20
846376	3	13	19	30	.1	28	5	127	2.87	4	2	ND	3	10	1	2	2	52	.14	.08	3	118	.45	74	.05	2	1.10	.01	.03	2	ND
846377	2	5	5	10	.1	6	2	54	1.44	2	2	ND	2	10	1	2	2	38	.13	.05	4	40	.15	47	.04	4	.47	.01	.03	2	ND
846378	2	10	11	56	.1	22	6	356	2.69	3	3	ND	2	11	1	2	2	56	.16	.08	3	87	.35	81	.05	4	.92	.01	.03	2	ND
846379	2	8	15	23	.2	11	3	177	2.06	3	2	ND	3	11	1	2	2	45	.16	.04	3	57	.26	96	.03	4	.61	.01	.04	2	5
846380	2	29	13	60	.2	19	9	911	3.50	3	2	ND	2	33	1	2	2	78	.36	.10	3	73	.58	243	.06	3	1.35	.02	.09	2	15
STD 5-1	96	123	116	184	33.9	153	82	468	3.16	122	97	33	171	127	86	87	99	59	.56	.12	133	62	.58	123	.08	173	1.50	.23	.23	66	-

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	NA	K	W	AU**	Hg		
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
846381	1	10	10	34	.3	20	6	261	2.76	2	2	ND	2	12	1	2	2	57	.16	.07	2	100	.50	80	.04	2	.89	.01	.04	2	ND			
846382	1	15	12	19	.1	21	7	246	2.69	3	2	ND	2	22	1	2	2	58	.35	.03	2	103	.43	185	.03	5	.62	.01	.05	2	ND			
846383	1	13	10	37	.1	30	8	393	2.74	3	2	ND	2	9	1	2	2	51	.14	.10	3	108	.55	77	.03	5	1.10	.01	.03	2	ND			
846384A	2	28	1	32	.1	11	6	581	2.23	5	2	ND	2	35	1	2	2	41	.35	.09	5	54	.53	138	.03	5	.78	.02	.11	2	ND			
846384B	2	30	6	33	.1	8	5	581	2.40	5	2	ND	3	37	1	2	2	44	.38	.11	6	46	.51	181	.03	4	.80	.02	.09	2	ND			
846385A	2	27	7	35	.1	7	6	578	2.33	5	2	ND	2	33	1	2	4	43	.35	.09	6	52	.53	137	.03	3	.76	.02	.10	2	ND			
846385B	3	27	1	36	.4	10	6	590	2.28	3	2	ND	2	33	1	2	2	41	.35	.10	5	54	.54	142	.03	7	.75	.03	.10	2	ND			
846386	2	17	5	39	.3	11	5	191	2.58	4	2	ND	2	13	1	2	2	51	.15	.09	5	36	.40	175	.01	2	1.24	.01	.04	2	ND			
846387	3	28	5	31	.1	10	5	439	2.74	2	2	ND	3	26	1	2	1	53	.27	.10	6	48	.49	146	.02	2	1.16	.02	.08	2	5			
846388	2	32	1	43	.4	15	7	337	3.38	3	2	ND	3	34	1	2	3	74	.39	.16	6	46	.58	124	.06	5	1.71	.02	.09	2	15			
8184904846389	2	248	21	18	.4	81	10	466	1.11	12	5	ND	2	248	1	3	2	34	1.92	.17	5	66	.35	495	.08	15	1.35	.01	.01	2	10	5		

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 VANCOUVER, B.C.

TWIN

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	A																	
		ZN	EAST			NORTH	E	ZN	CU	PB	NI	CO	AG	MN	AS	MO	FE	HG	U	W	SB	F-W	PH
93N13	831724	10	326817	6188109	LMSN	23	71	38	1	371	28	0.2	600	5.0	2	2.90	40	1.6	1	0.2	48	7.7	.05
93N13	831725	10	325816	6187339	LMSN	23	91	51	4	431	31	0.2	346	4.5	1	2.80	60	2.3	1	0.4	42	7.6	.01
93N13	831726	10	325816	6187339	LMSN	23	68	47	2	495	35	0.1	328	5.0	1	2.85	30	1.8	1	0.2	42	7.5	.01
93N13	831727	10	323961	6187973	GRNT	41	49	40	1	556	35	0.1	618	7.5	1	2.90	20	1.5	1	0.2	36	7.6	.02
93N13	831728	10	324933	6184018	LMSN	23	68	35	3	46	15	0.1	1590	3.5	1	3.00	40	2.0	4	0.2	38	7.4	.01
93N13	831729	10	325347	6184050	LMSN	23	66	28	1	142	13	0.1	5500	7.0	1	4.95	60	1.7	1	0.2	38	7.4	.01
93N13	831731	10	320929	6183541	LMSN	23	66	35	2	27	13	0.1	612	4.5	1	2.65	40	1.9	1	0.2	38	7.5	.01
93N13	831732	10	320543	6183369	LMSN	23	68	53	2	47	15	0.1	592	6.0	1	3.20	40	1.6	1	0.1	36	7.6	.01
93N13	831733	10	319615	6189426	LMSN	23	66	31	1	351	25	0.1	277	3.0	1	2.15	40	1.4	1	0.1	38	7.4	.01
93N13	831734	10	317583	6193833	SRPM	41	32	26	1	1250	61	0.1	590	4.5	1	3.80	30	0.7	1	0.1	32	7.7	.01
93N13	831735	10	316593	6193672	LMSN	23	46	45	2	31	9	0.1	232	1.5	1	1.60	60	1.8	1	0.1	36	7.6	.01
93N13	831736	10	313925	6194700	LMSN	23	53	51	1	21	12	0.1	342	2.5	1	2.95	40	2.1	1	0.3	38	7.4	.01
93N13	831737	10	320952	6195974	LMSN	23	49	38	1	720	41	0.2	545	4.5	1	3.60	30	1.5	1	0.4	36	7.5	.01
93N13	831738	10	320535	6195650	LMSN	23	32	29	1	585	34	0.2	473	3.0	1	2.10	40	1.9	1	0.4	32	7.4	.01
93N13	831739	10	319927	6199887	LMSN	23	26	18	1	38	4	0.1	135	2.5	2	1.00	70	2.6	1	0.1	40	8.0	.01
93N13	831740	10	317690	6199224	LMSN	23	83	48	2	160	16	0.1	271	6.0	3	2.40	80	2.3	1	0.8	48	7.8	.01
93N13	831742	10	316806	6198564	LMSN	23	14	32	1	87	6	0.2	292	2.5	1	0.95	110	1.6	1	0.1	38	7.1	.01
93N13	831743	10	314584	6204254	LMSN	23	40	68	1	195	22	0.1	506	5.0	1	2.55	30	1.3	1	0.2	36	7.7	.01
93N13	831744	10	314614	6190848	LMSN	23	112	45	1	36	21	0.1	974	5.0	1	2.80	40	1.7	1	0.3	50	7.8	.04
93N13	831745	10	315129	6188558	LMSN	23	162	42	1	39	30	0.1	1250	4.5	1	3.25	40	1.8	1	0.2	54	7.6	.04
93N13	831746	10	312556	6186869	ANDS	32	82	35	4	40	16	0.1	716	5.5	1	3.10	40	1.9	1	0.6	36	7.5	.01
93N12	831747	10	327335	6180476	LMSN	23	69	32	1	165	22	0.1	481	3.5	1	3.35	50	1.5	1	0.4	38	7.6	.01
93N12	831748	10	324543	6179544	LMSN	23	62	35	1	460	41	0.1	542	5.5	1	3.25	50	1.4	1	0.4	44	7.9	.01
93N12	831749	10	319590	6182127	LMSN	23	88	74	3	136	24	0.1	775	4.5	2	3.95	40	1.3	1	0.1	38	7.6	.02
93N12	831750	10	318313	6180240	ANDS	32	92	22	1	14	15	0.1	480	3.5	2	4.00	40	1.5	1	0.2	38	7.4	.01
93N12	831751	10	315400	6177209	ANDS	32	41	32	1	8	4	0.3	262	1.5	3	1.50	70	0.4	1	0.1	38	7.3	.01
93N12	831752	10	314875	6177072	ANDS	32	425	37	18	32	10	0.3	1180	8.0	2	3.45	80	2.0	1	0.2	50	7.5	.01
93N12	831753	10	312367	6179848	BSLT	34	72	34	6	25	13	0.1	656	5.5	1	2.80	40	1.8	1	0.6	36	7.2	.01
93N12	831754	10	312367	6179848	BSLT	34	78	34	6	26	13	0.1	658	6.0	1	2.80	50	2.1	1	0.5	36	7.1	.01
93N12	831755	10	311762	6172478	BSLT	34	76	24	4	25	10	0.1	758	4.5	1	2.50	60	2.0	1	0.4	40	7.4	.01
93N12	831756	10	316997	6172491	ANDS	32	65	32	3	36	16	0.1	811	11.5	2	3.50	50	1.6	1	0.2	40	7.5	.01
93N12	831758	10	317314	6173504	ANDS	32	148	26	1	23	10	0.1	224	19.5	3	1.50	160	0.8	1	0.2	38	7.2	.01
93N12	831759	10	317534	6173244	ANDS	32	67	21	1	33	14	0.1	422	10.0	1	2.60	40	1.3	1	0.1	40	7.5	.01
93N12	831760	10	317754	6173796	ANDS	32	36	21	2	16	5	0.2	237	4.5	2	1.10	100	1.1	1	0.1	46	6.4	.01
93N12	831762	10	320606	6171467	ANDS	32	72	44	4	21	12	0.1	552	15.0	2	2.35	50	3.9	1	0.2	36	6.3	.01
93N12	831763	10	320401	6168081	ANDS	32	83	26	1	26	16	0.2	1130	5.5	2	2.95	40	1.5	1	0.2	38	7.3	.01
93N12	831764	10	319967	6166957	ANDS	32	78	35	2	36	23	0.1	1140	8.0	2	3.15	50	1.7	1	0.2	34	7.5	.02
93N12	831765	10	319109	6167993	ANDS	32	60	29	2	41	19	0.1	631	8.0	2	2.65	40	1.9	1	0.2	34	7.6	.03
93N12	831766	10	323247	6169520	ANDS	32	270	42	18	180	50	0.1	3410	21.5	2	4.80	40	1.4	1	0.4	32	7.4	.02
93N12	831767	10	325549	6173364	LMSN	23	72	37	1	419	37	0.2	531	8.5	1	3.70	30	1.4	1	0.2	34	7.5	.03
93N12	831769	10	325549	6173364	LMSN	23	74	42	1	481	42	0.1	672	11.0	1	3.65	30	1.5	1	0.4	38	7.5	.01
93N12	831770	10	328767	6173254	LMSN	23	90	65	10	51	9	0.1	513	3.0	2	1.80	50	5.6	1	0.2	52	7.4	.05
93N11	831771	10	373402	6169288	ANDS	32	30	50	1	16	9	0.2	163	4.5	1	2.40	110	2.9	1	0.4	38	6.5	.03
93N11	831772	10	367830	6168446	ANDS	32	64	58	2	42	22	0.1	397	31.5	1	3.70	120	1.3	1	3.9	38	7.7	.01
* 93N11	831773	10	362700	6163200	ANDS	32	172	108	16	23	20	0.6	686	13.5	3	3.65	60	2.3	8	1.0	42	7.6	.01
93N11	831774	10	365500	6165300	ANDS	32	22	23	1	11	5	0.4	586	8.0	5	1.80	190	2.4	2	2.8	40	7.6	.01
* 93N11	831775	10	362600	6163000	ANDS	32	32	68	3	19	9	0.6	1380	4.5	2	2.05	130	9.3	1	0.2	38	7.4	.02
93N11	831776	10	360342	6166004	ANDS	32	42	48	4	7	9	0.5	850	3.0	4	2.00	70	9.7	7	0.4	36	7.5	.06

14.

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	45	100	25	.8	.3	.45	.02	.02	.07
4	4	55	150	30	1	.35	.6	.04	.04	.09
6	6	60	200	35	1.75	.4	.7	.06	.06	.11
8	8	70	250	40	2	.5	1	.08	.08	.13
10	10	80	300	50	2.5	.6	1.4	.1	.1	.15
12	12	100	400	100	3	1	2	.12	.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	45	100	15	1.2	.15	.35	.05	.04	.05
4	4	55	125	20	1.5	.22	.7	.07	.06	.1
6	6	65	190	25	1.7	.35	.95	.09	.08	.15
8	8	75	220	35	2.4	.45	1.2	.11	.1	.2
10	10	85	300	40	2.7	.6	1.7	.13	.12	.23
12	12	95	450	75	3.2	.7	2	.2	.15	.3

1000 METERS

TWIN PROPERTY
 HAZELTON PG - B.C.

1984 STREAM & SOIL SURVEY

PART 2 OF 3

DATE JAN/85 PROJECT 904C/10250

NTS 93N/11 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

	MO	CU	PB	ZN	NI	MN	FE	AG	CO	AU	AS
▼	2	30	5	40	15	600	2	.4	4	10	3
·	4	40	7	50	20	800	2.5	.6	6	20	5
▼	6	60	10	65	25	1000	3	.8	8	30	7
▼	8	80	15	80	30	1200	4	1	10	40	9
▼	10	100	18	100	40	1500	6	1.2	15	50	11
▼ Xx	12	125	20	125	45	5000	6.4	1.5	20	75	20

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

	MO	CU	PB	ZN	NI	MN	FE	AG	CO	AU	AS
·	2	25	6	42	16	250	2.6	.4	8	10	4
·	4	40	9	50	22	400	3	.6	10	20	6
·	6	60	12	70	30	700	3.8	.8	12	30	16
·	8	75	14	75	40	1400	4.8	1	14	40	20
·	10	100	18	95	50	1500	5.1	1.2	19	50	35
· Xx	12	150	20	110	65	2000	6	1.5	22	75	50

I 1000 METERS I

TWIN PROPERTY
 HAZELTON PG - B.C.
 1984 STREAM & SOIL SURVEY
 PART 1 OF 3
 DATE JAN/85 PROJECT 904C/10250
 NTS 93N/11 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

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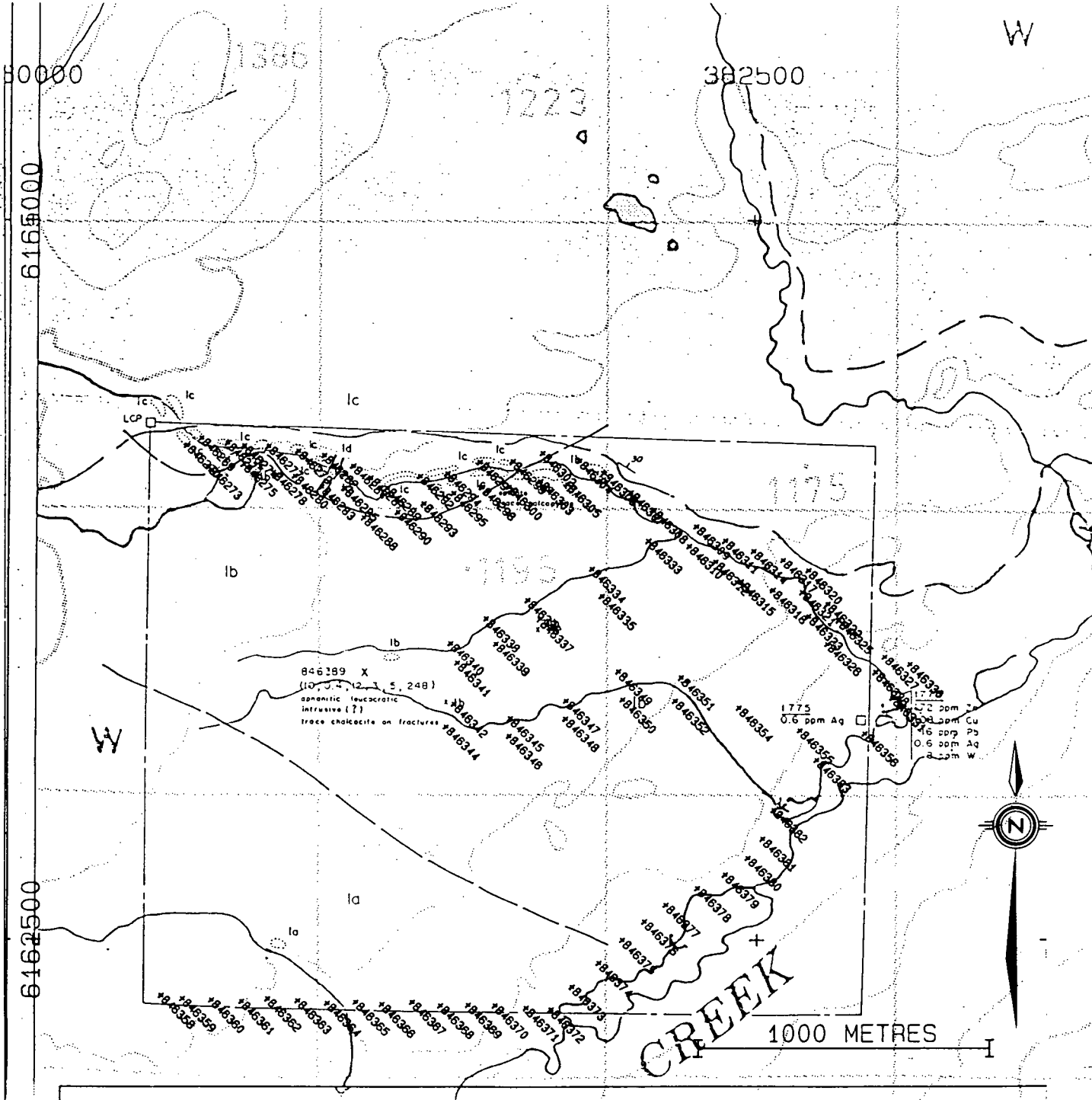
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SOIL HORIZONS	ALL
SAMPLE TEXTURE (S)	ALL
OVERBURDEN ORIGIN (S)	ALL
LAB SIZE-FRAC EX	ALL

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- 95
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- 100
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- 110
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┌────────── 1000 METERS ─────────┐

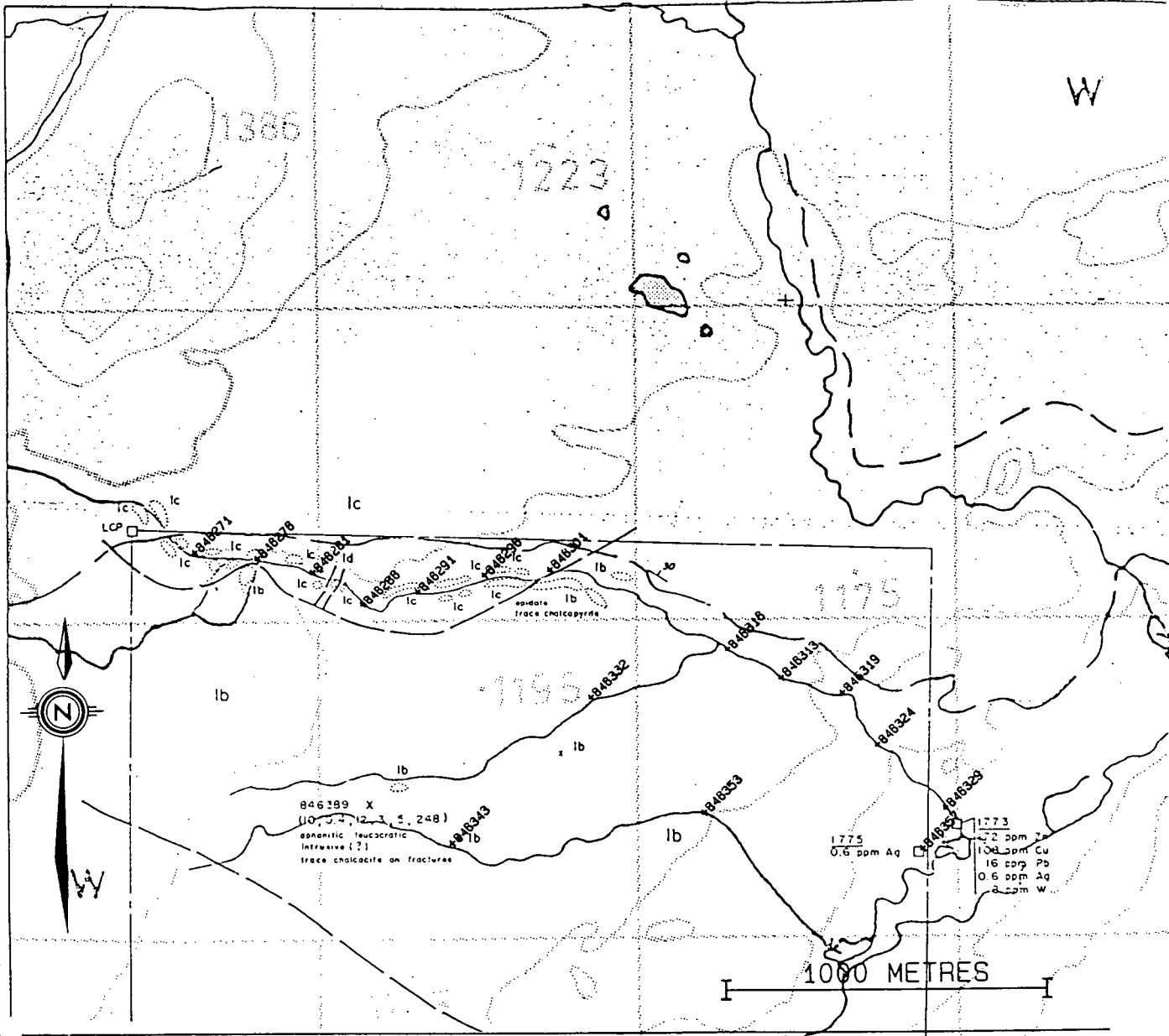
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 HAZELTON PG - B.C.
 1984 STREAM & SOIL SURVEY
 PART 3 OF 3
 DATE JAN/85 PROJECT 904C/10250
 NTS 93N/11 SCALE 1: 20000



TWIN PROPERTY
 HAZELTON PG - B.C.
 1984 SOIL SAMPLES
 SAMPLE LOCATION MAP
 DATE JAN/85 PROJECT 904C/10250
 NTS 93N/11 SCALE 1: 20000

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TWIN PROPERTY
 HAZELTON PG - B.C.
 1984 STREAM SEDIMENT SURVEY
 SAMPLE LOCATION MAP
 DATE JAN/85 PROJECT 904C/10250
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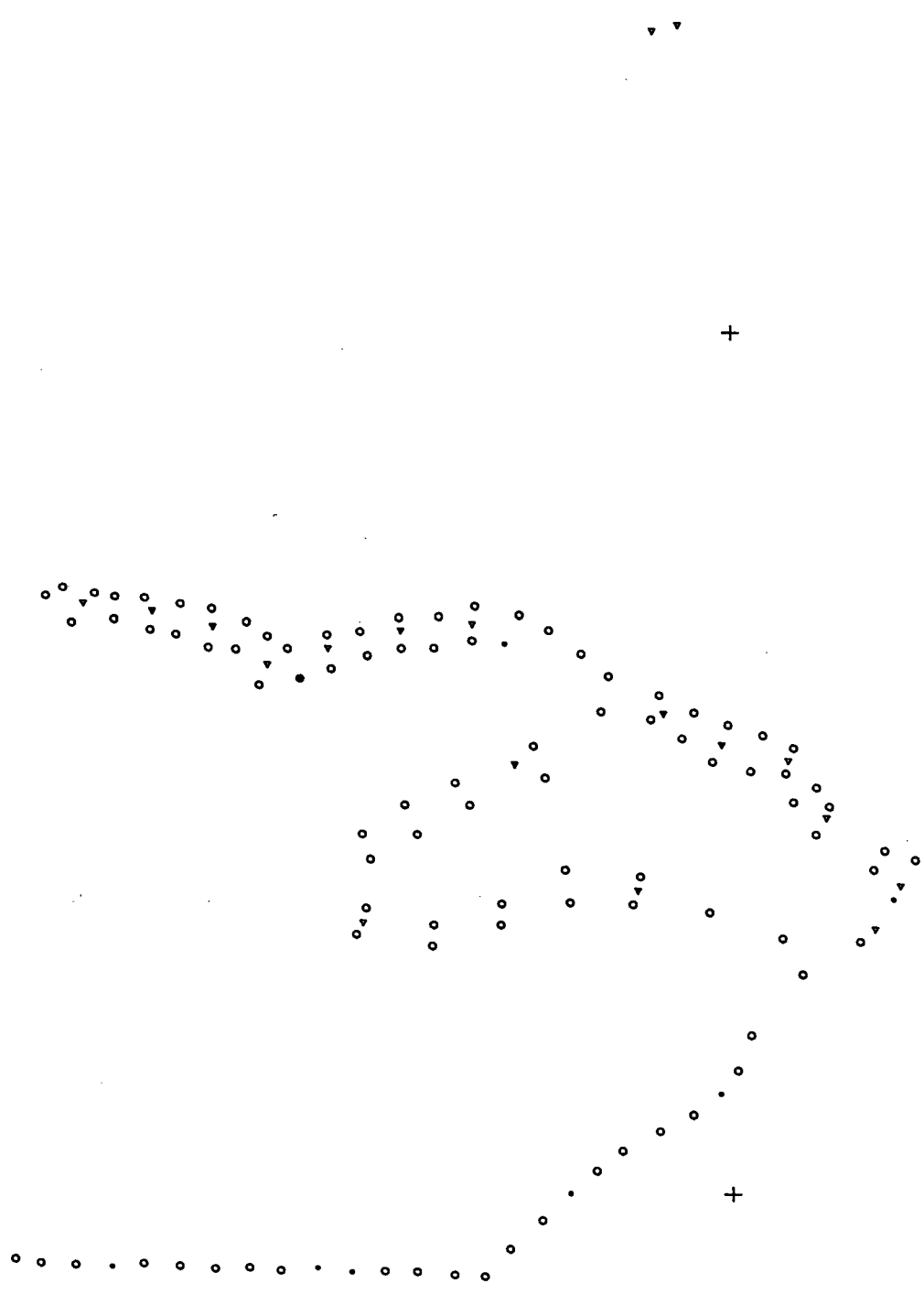
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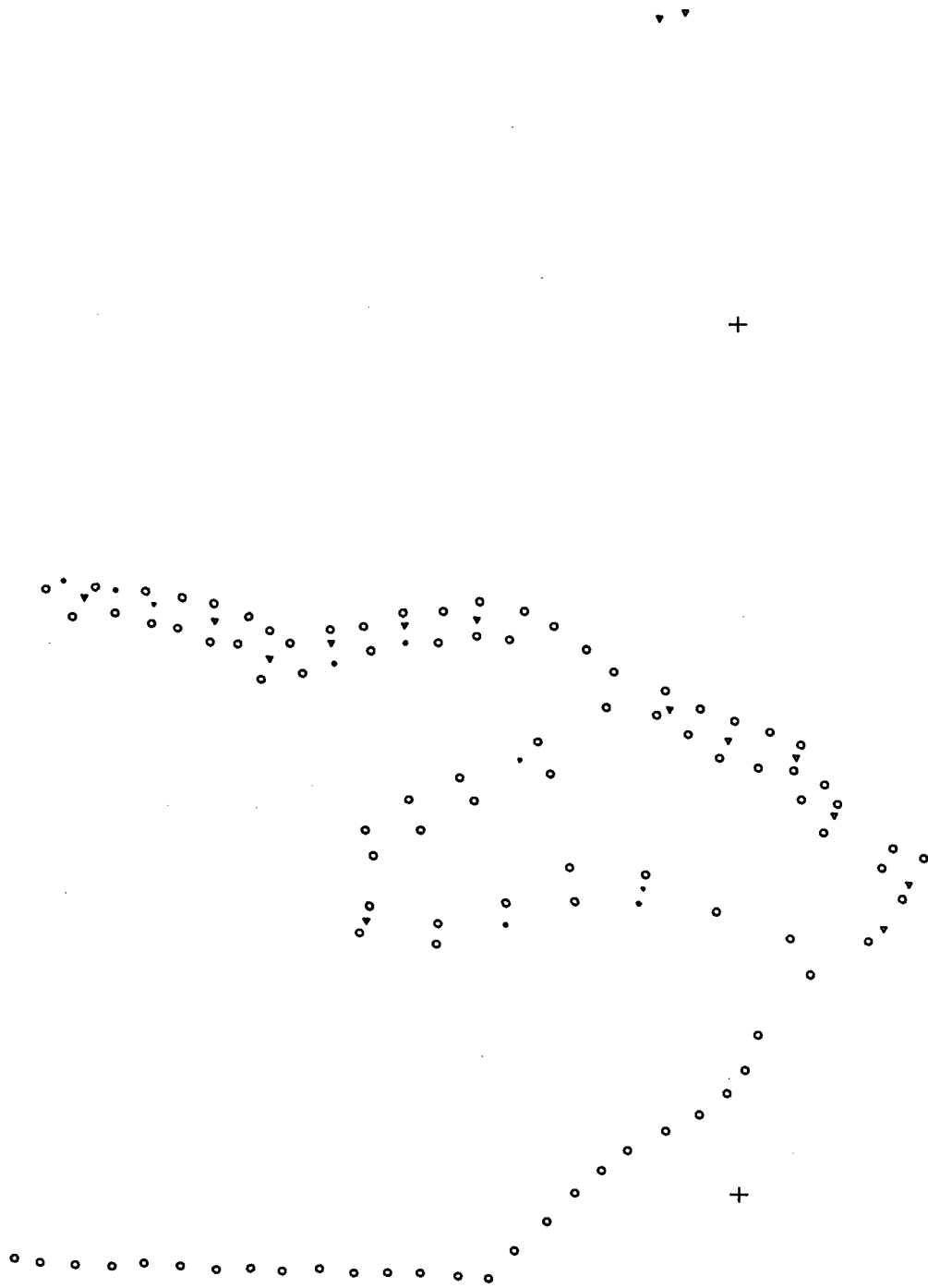
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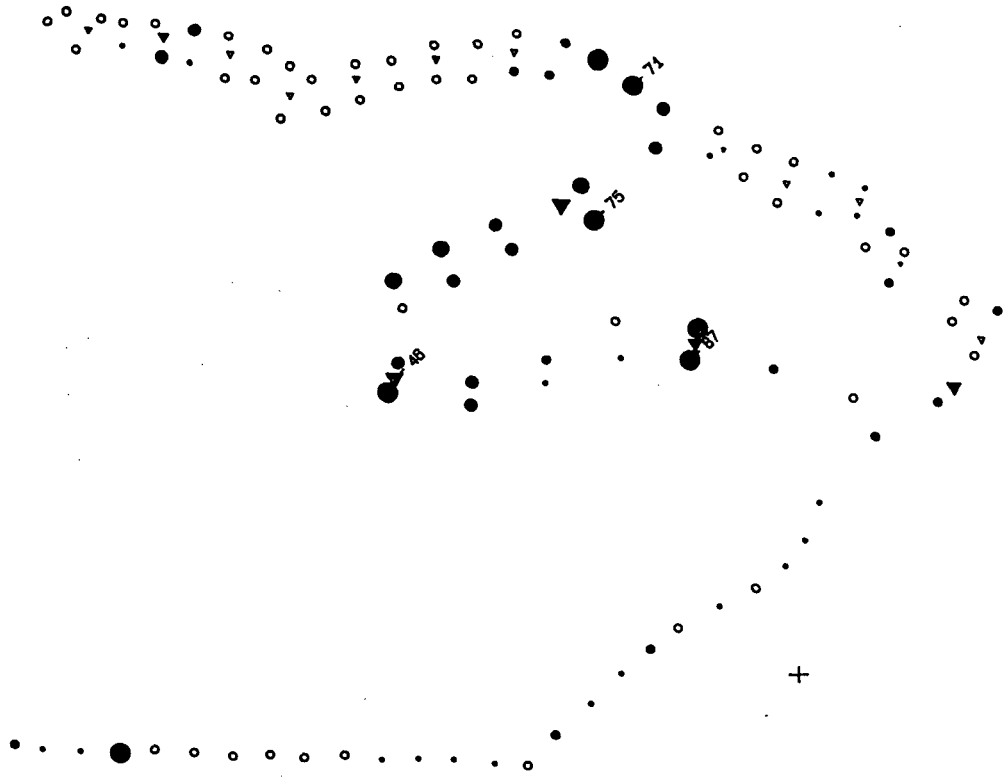
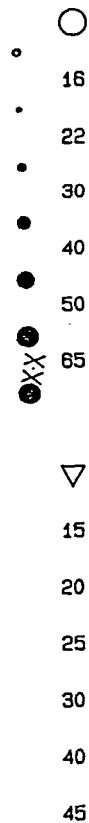
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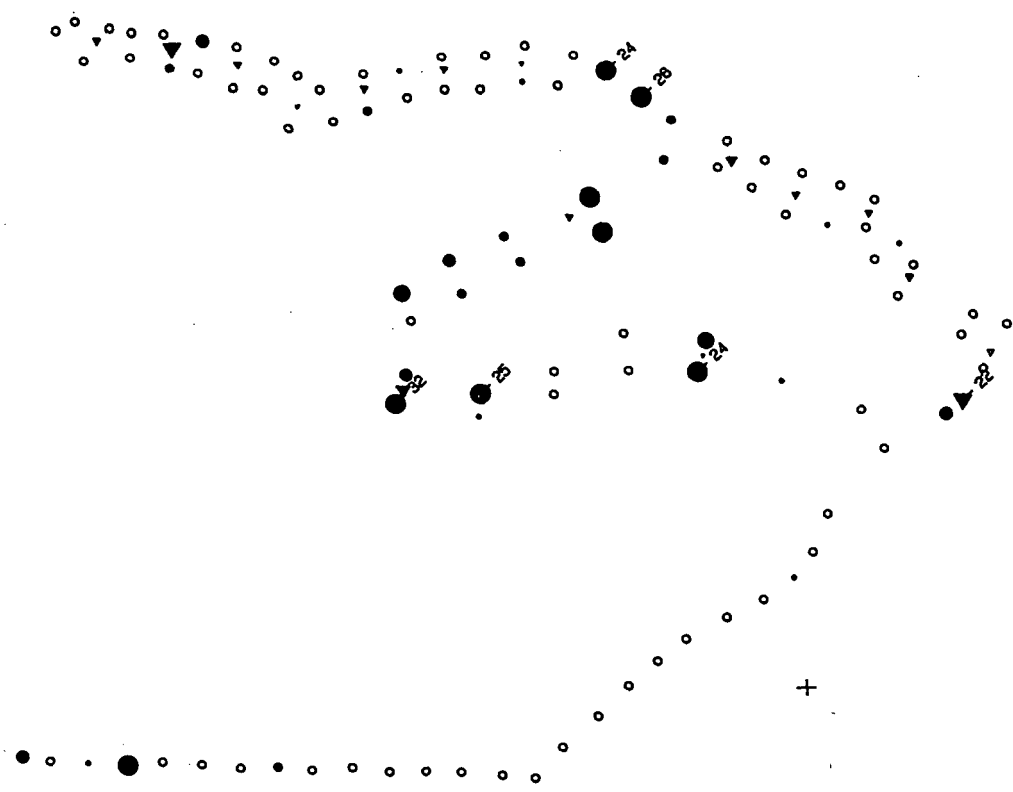
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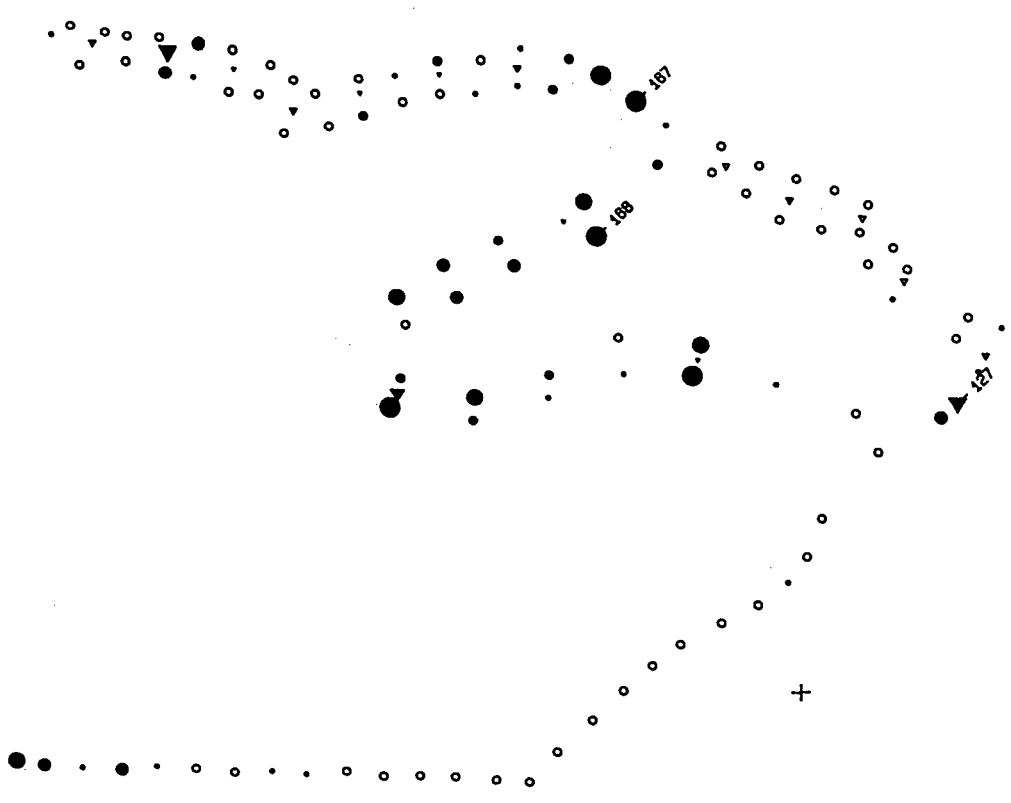
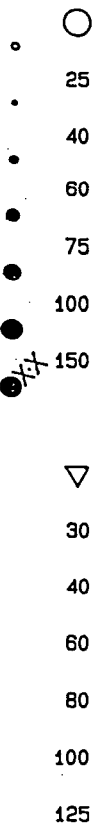
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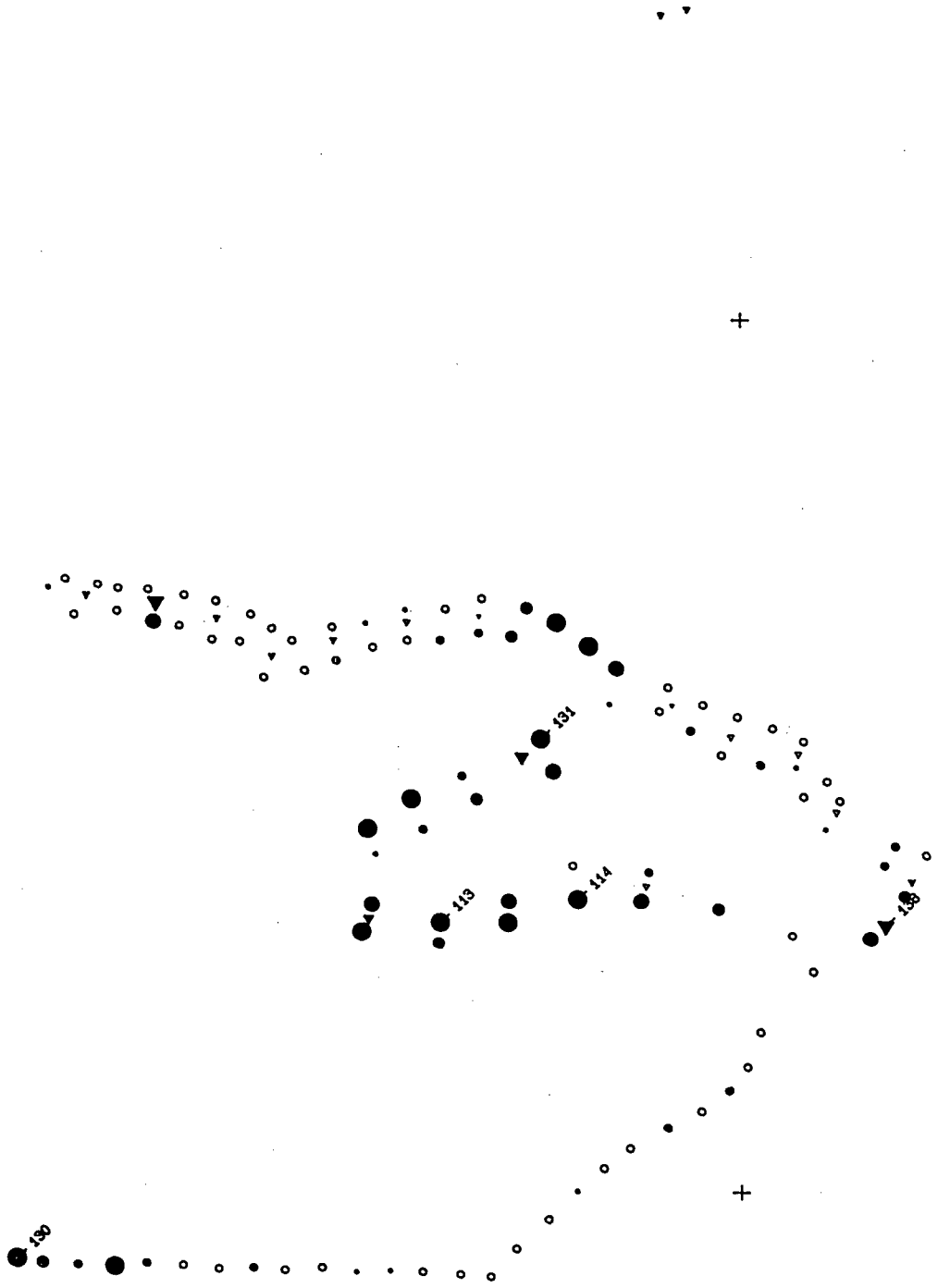
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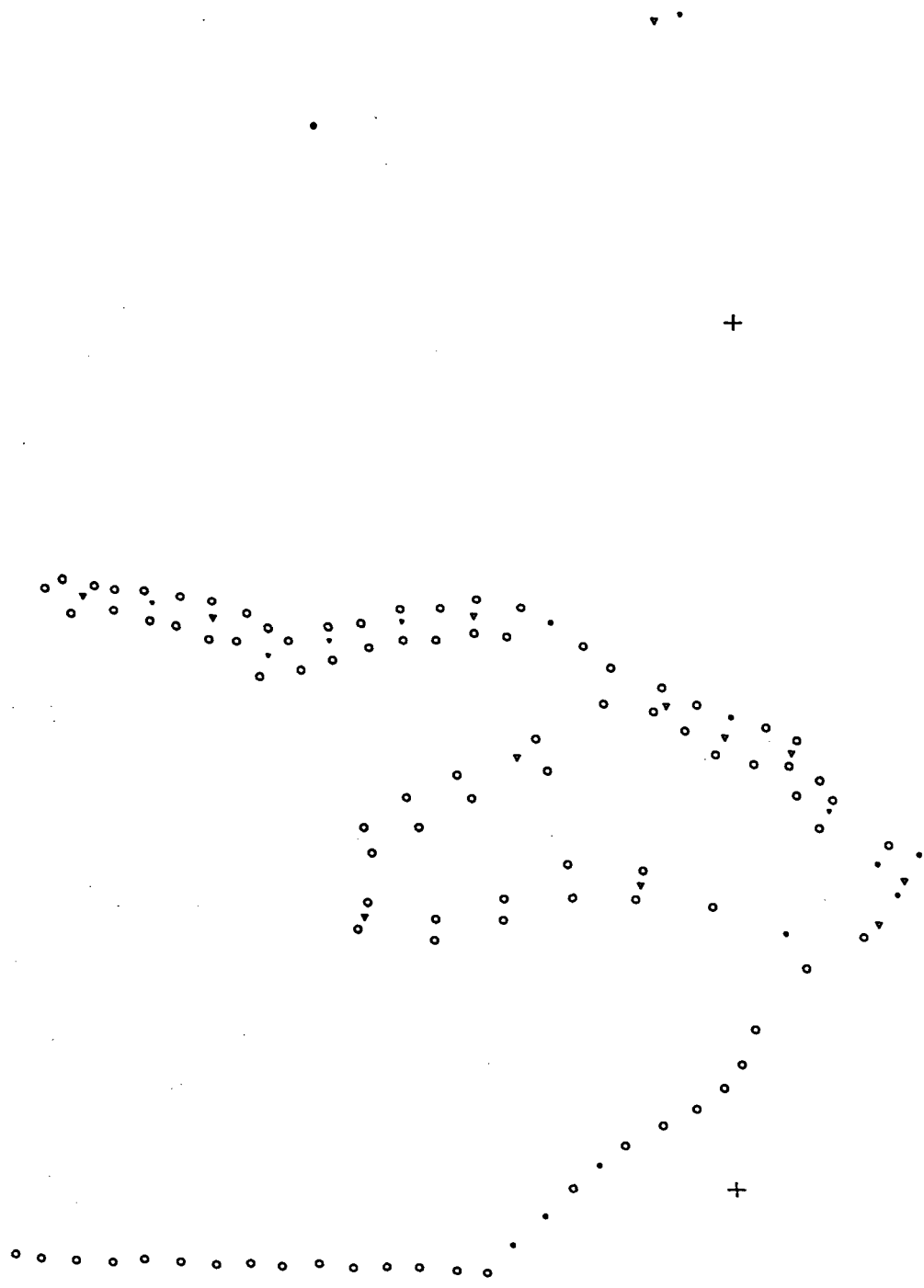
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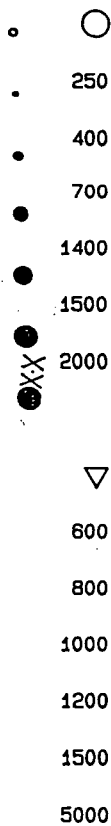
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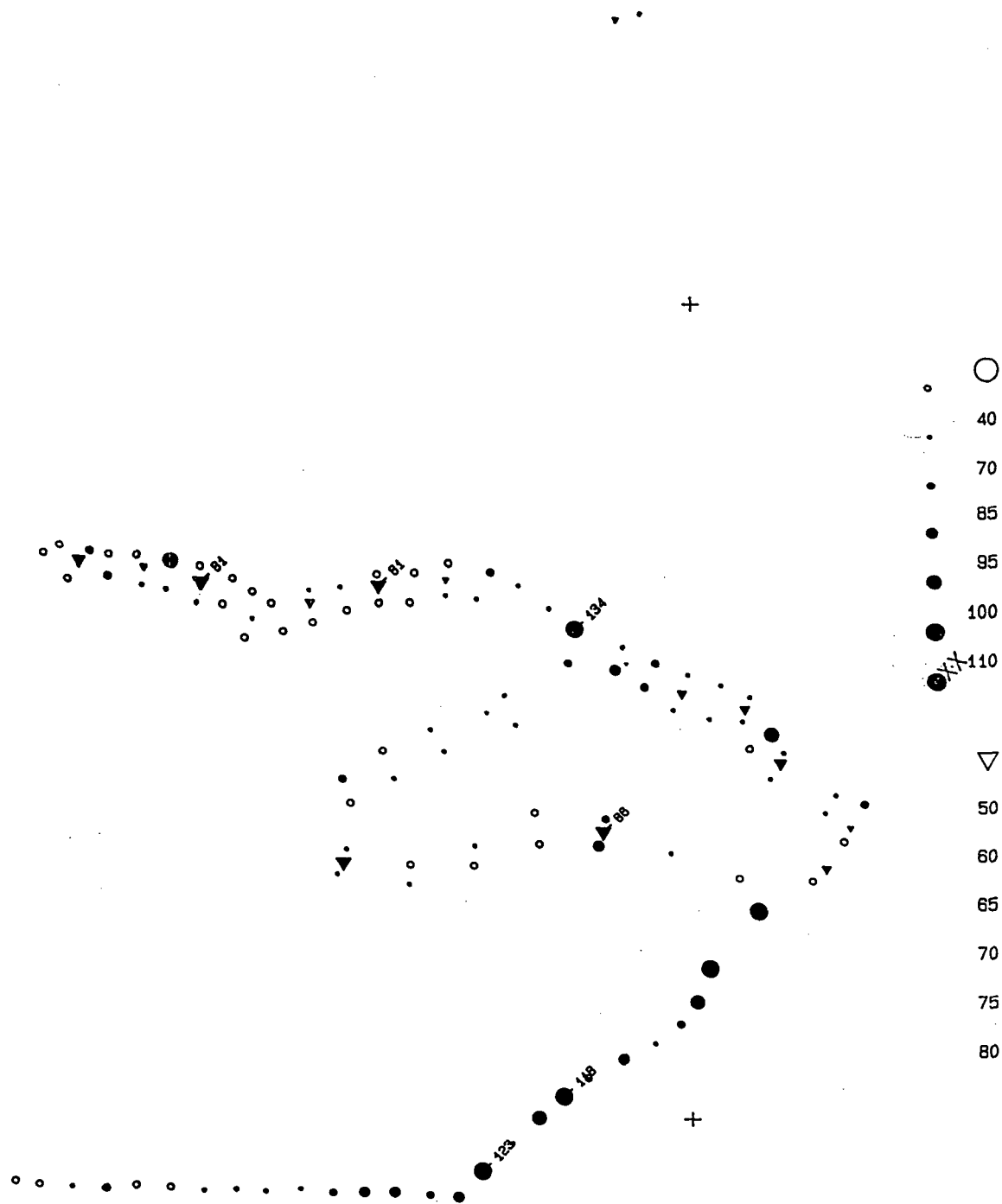
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- 1.75
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- 2.5
- 3



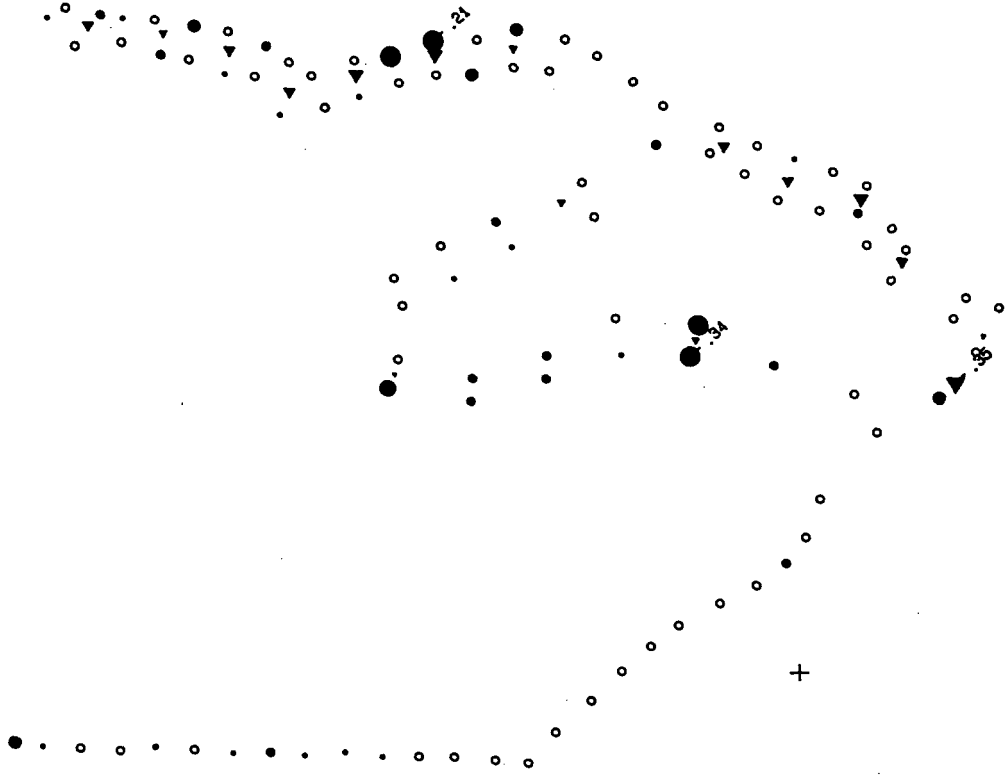
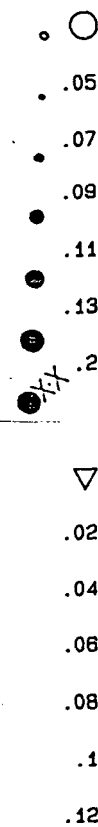
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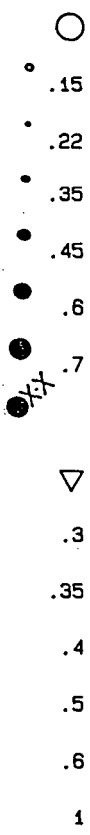
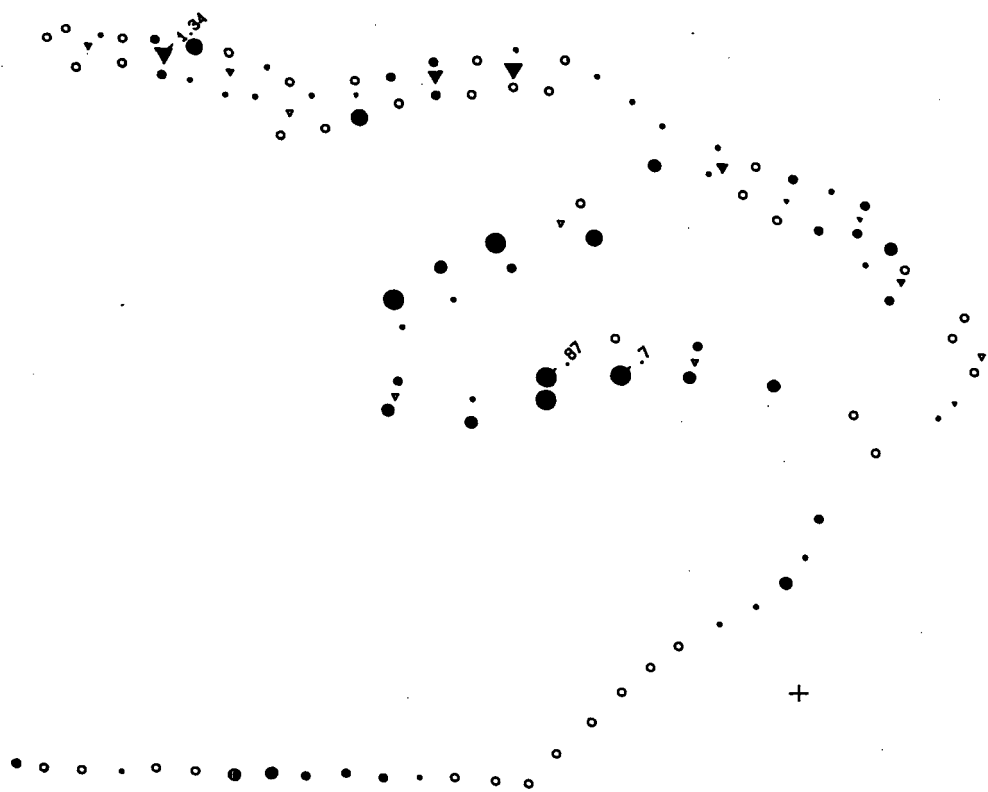
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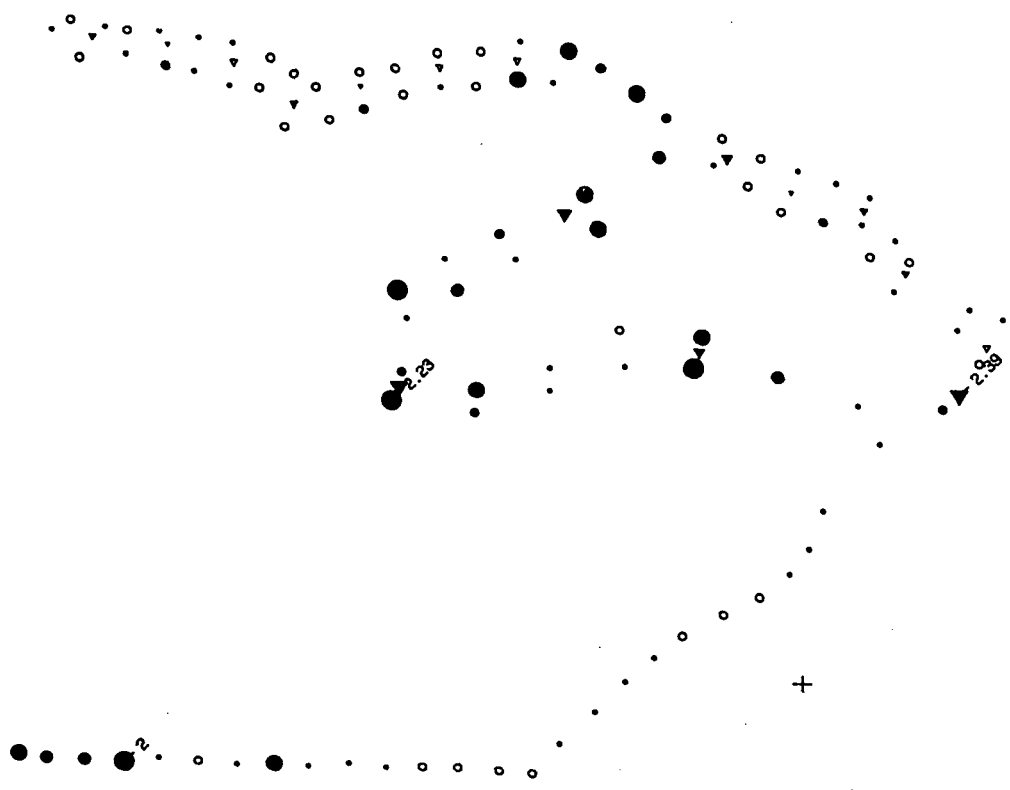
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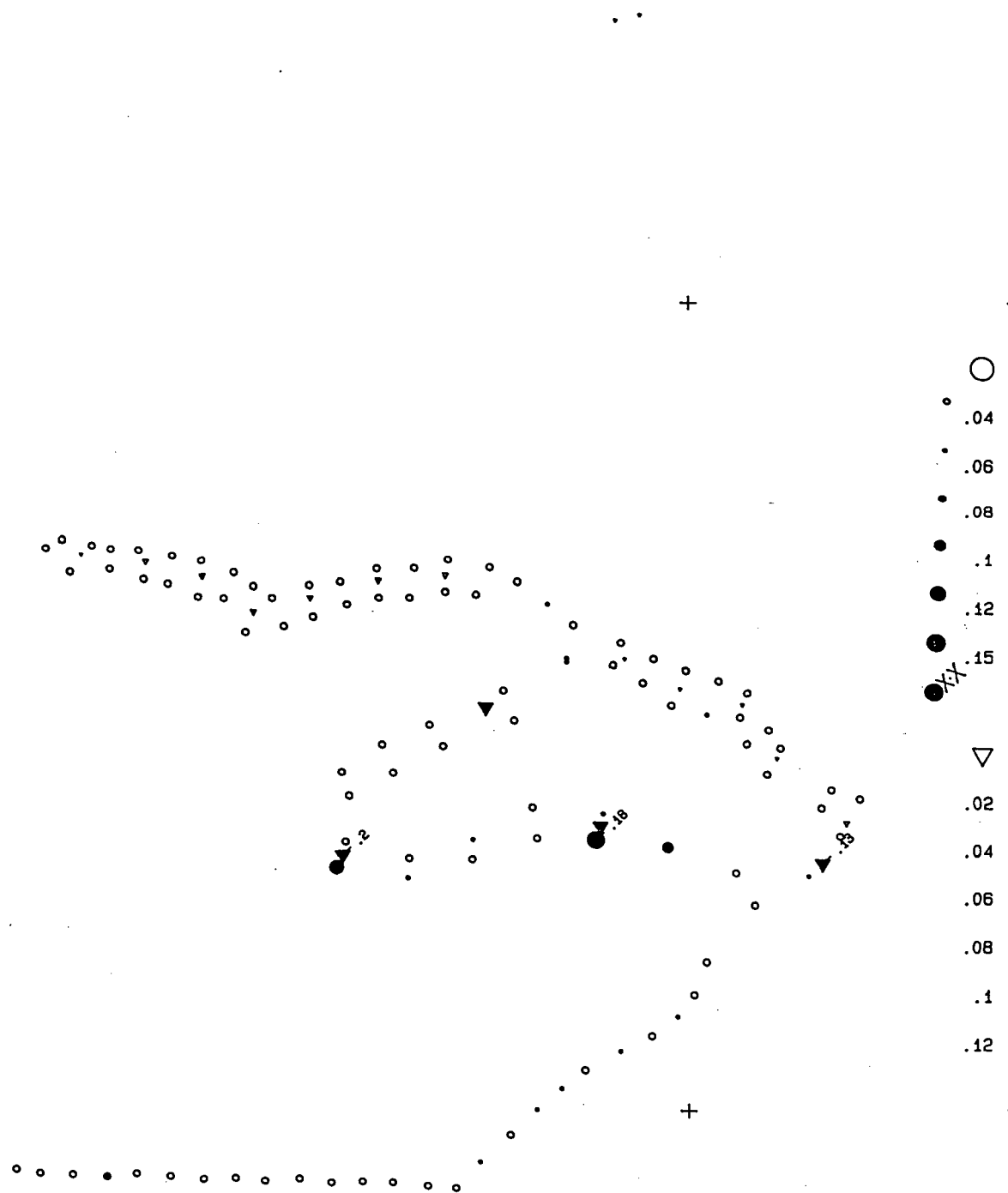
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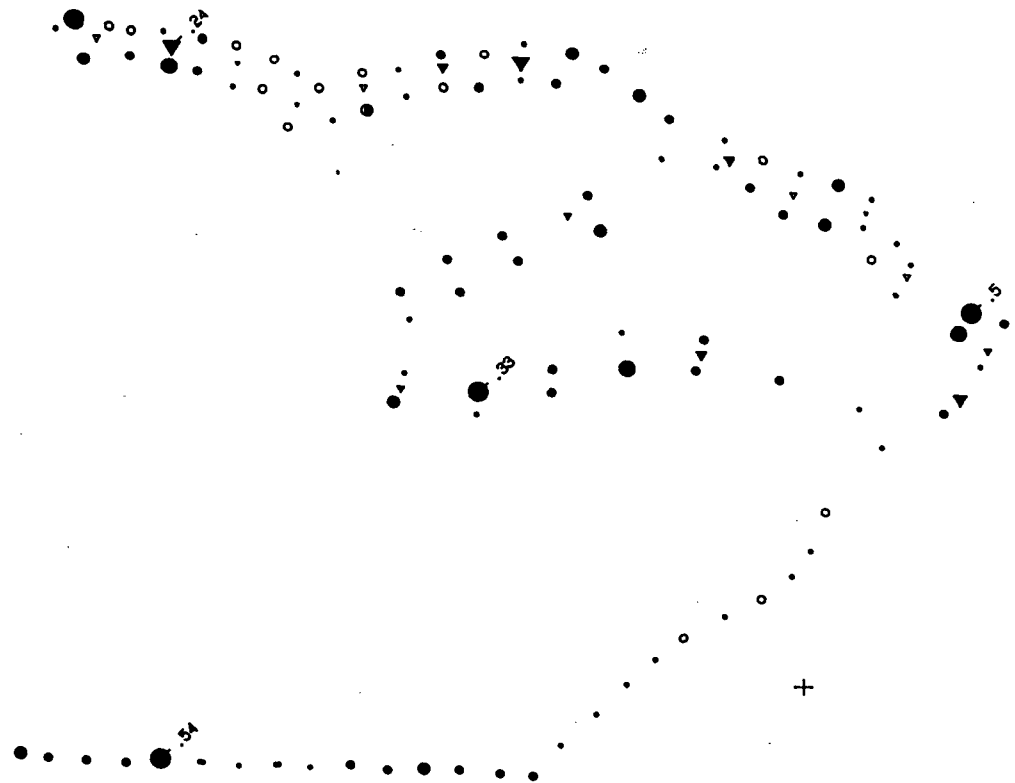
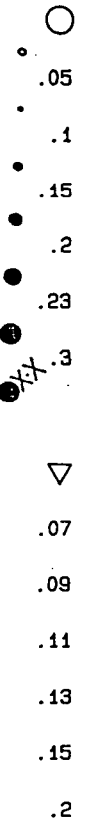
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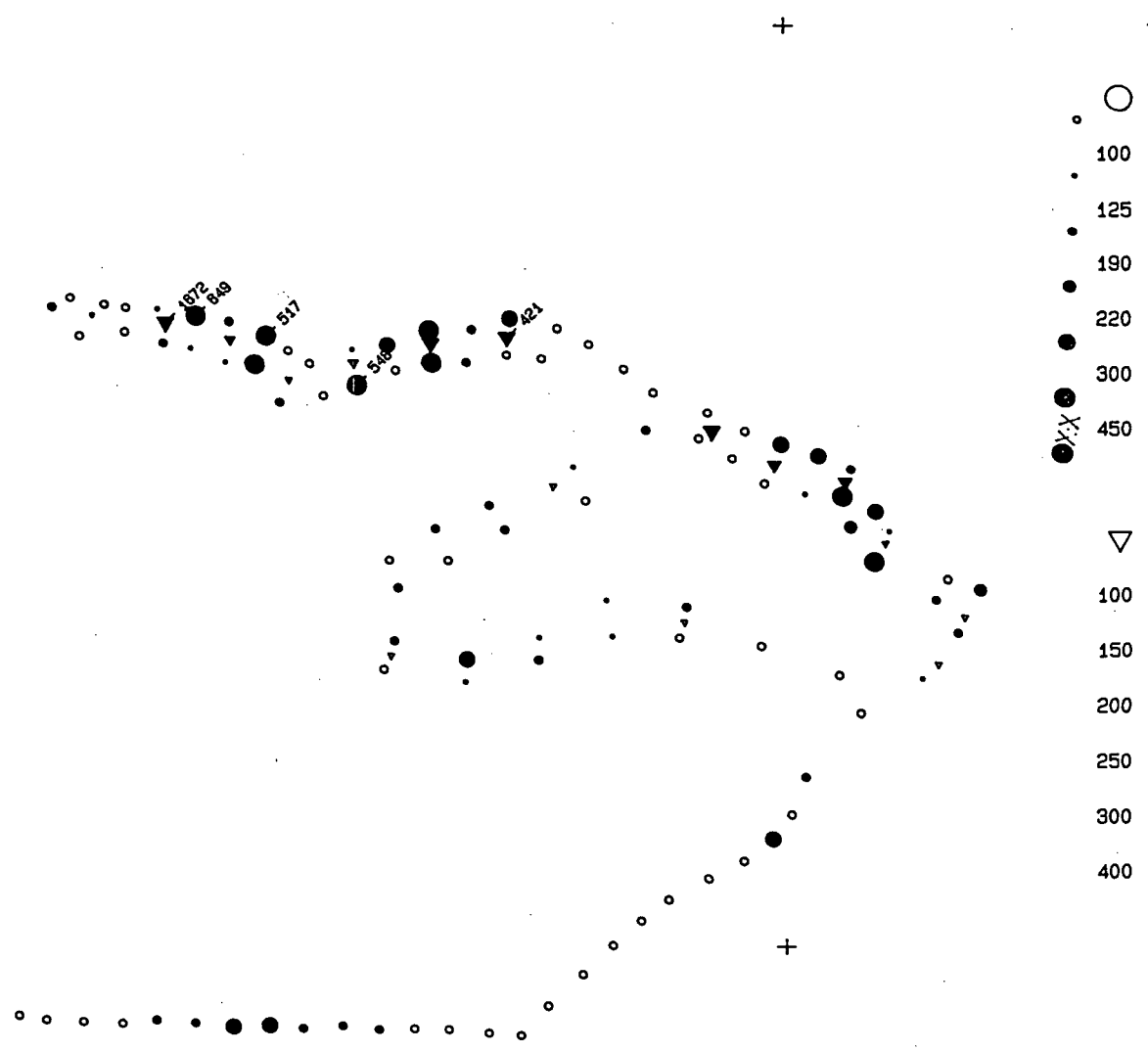
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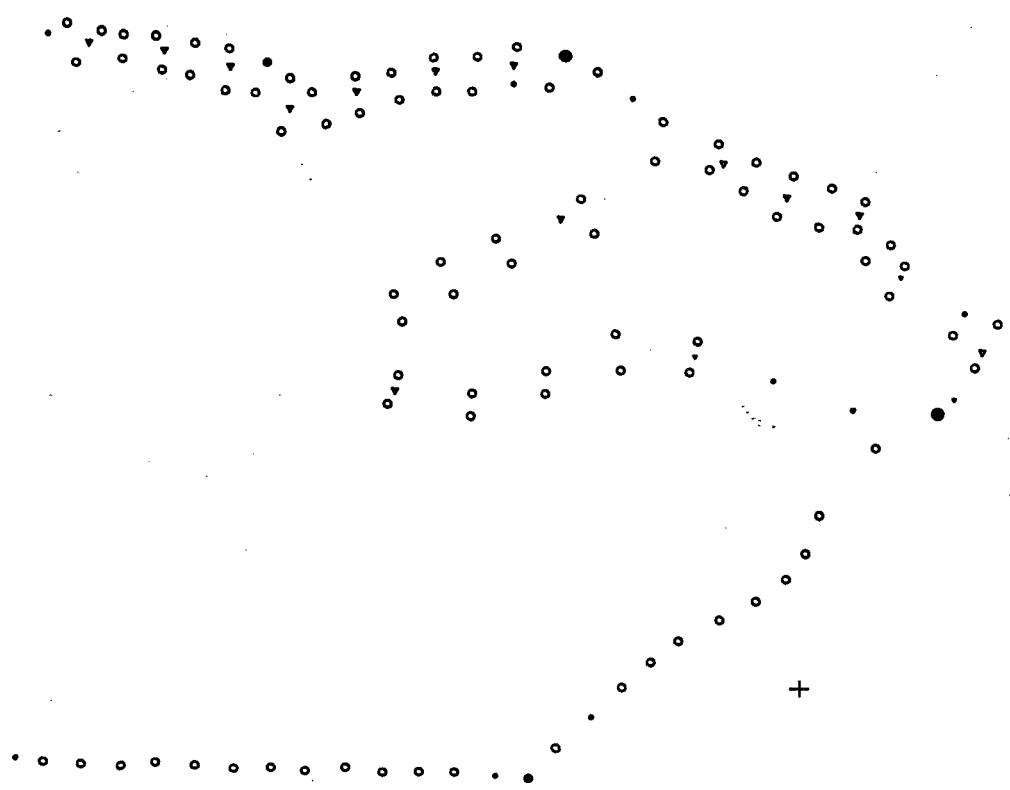
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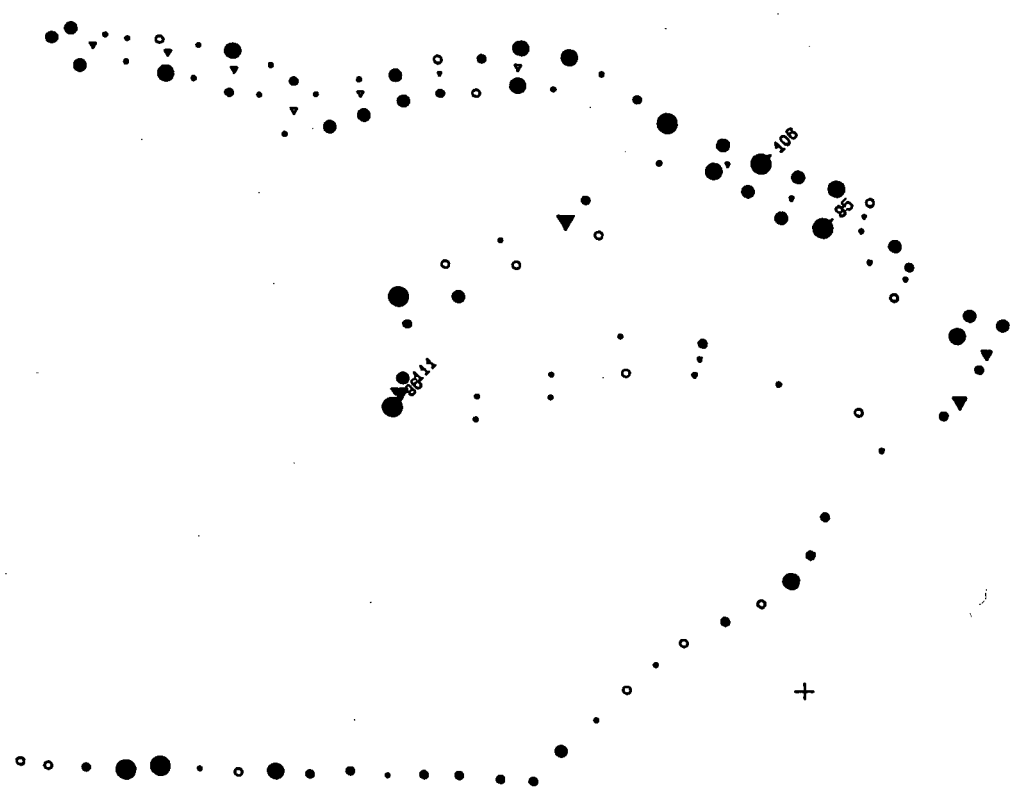
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APPENDIX C
STATEMENT OF COSTS

STATEMENT OF COSTS

TWIN 1

GEOLOGICAL 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)

107 Soil Samples @ \$15.57/sample	1665.99
1 Rock Sample @ \$19.75/sample	19.75

TRANSPORTATION

Helicopter - 1.3 hours @ \$507.32/hour	659.52
Truck Rental - \$50/day - 4 days (included fuel, maintenance, etc.)	200.00

DATA PROCESSING

108 Samples @ \$2.00/sample	216.00
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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	\$5,141.56
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APPENDIX D
STATEMENT OF QUALIFICATIONS

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 Univeristy 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 TWIN 1 Group of Claims and interpreted results herein.
5. I hold no interest, direct or indirect in the TWIN 1 Group of Claims.

Respectfully submitted,

Neil Humphreys
Project Geologist

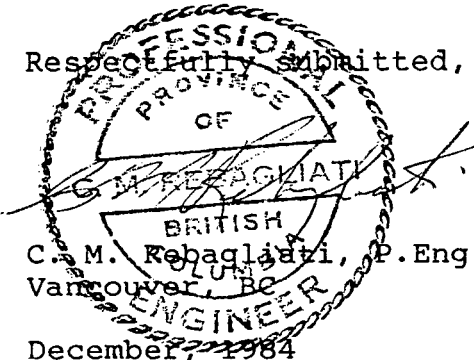
December 1984

CERTIFICATE

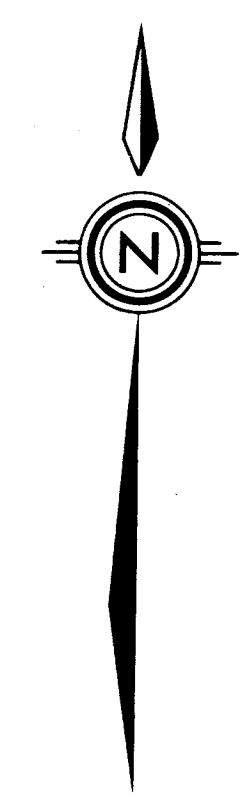
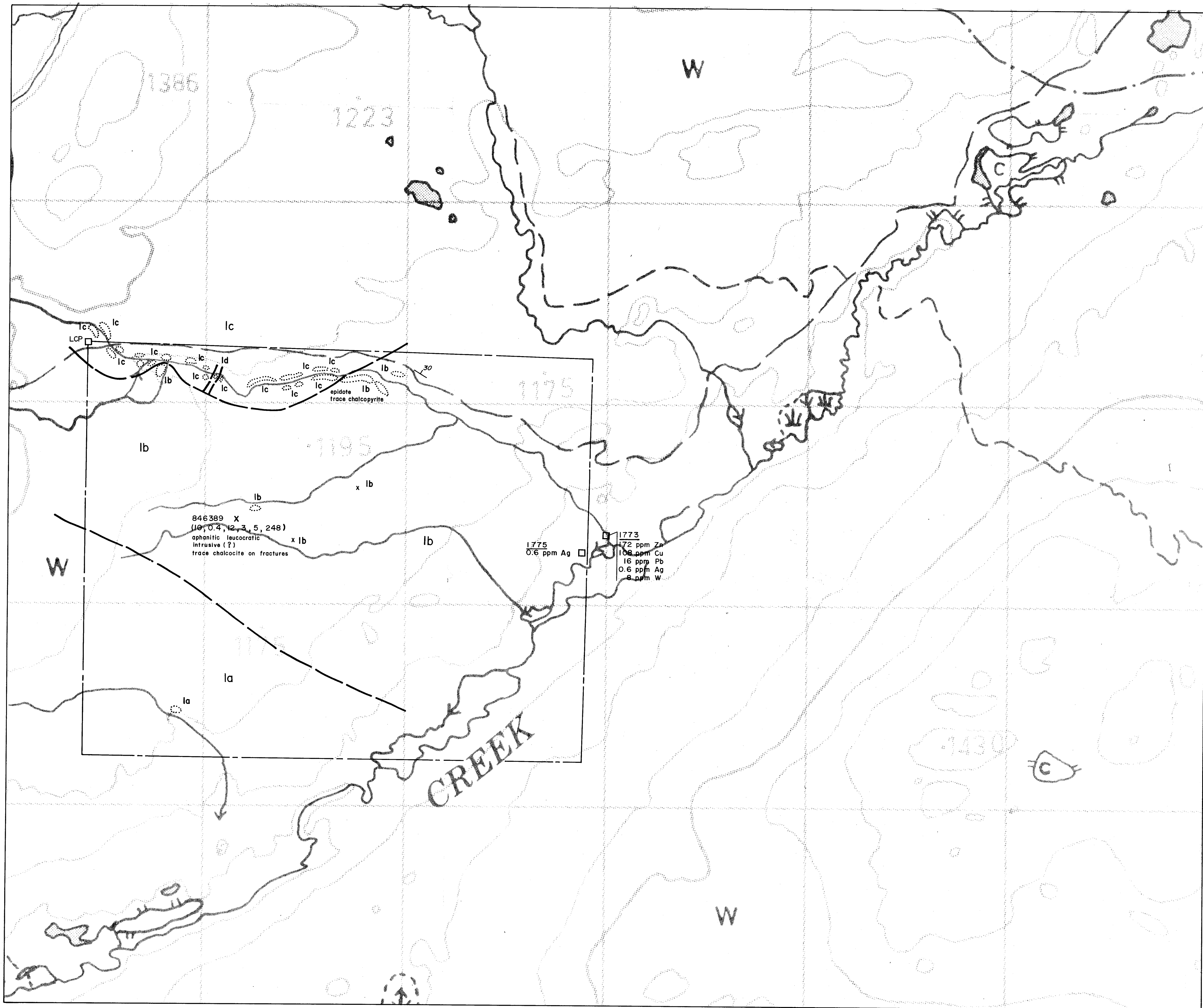
I, C.M. Rebagliati, of Vancouver, in the Province of British Columbia, hereby certify the following:

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.

Respectfully submitted,

A circular seal for the Professional Engineers of the Province of British Columbia. The seal contains the text "PROFESSIONAL ENGINEERS OF THE PROVINCE OF BRITISH COLUMBIA". A signature, "C.M. Rebagliati", is written across the seal. Below the seal, the text "C.M. Rebagliati, P. Eng" and "Vancouver, B.C." is printed.
C.M. Rebagliati, P. Eng
Vancouver, B.C.

December 7, 1984



LEGEND

- TRIASSIC
- 1 TAKLA GROUP
 - 1a. Green Andesite Feldspar-Porphry Flows
 - 1b. Maroon-Green Andesite Lapilli Tuff, Breccia
 - 1c. Maroon Dacite Feldspar-Porphry Flows
 - 1d. Hornblende Latite Dyke
 - x Angular Float or Subcrop
 - Outcrop
 - Geological Contact
 - 45 Bedding
 - x 846389 Rock Chip Sample Location with Results:
(10, 0.4, 12, 3, 5, 248) (Au ppb, Ag ppm, As ppm, Sb ppm, Hg ppb, Cu ppm)
 - 1773 Government Survey Stream Sediment Anomaly

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,505



BP SELCO DIVISION -
BP RESOURCES CANADA LIMITED

TWIN I PROPERTY
TAKLA PROJECT - B.C.
GEOLOGY

SCALE 1:10,000	DRAWN BY: N. HUMPHREYS	FIG. 2
DATE DECEMBER 1984	DRAFTED BY: S. G.	
N.T.S. 93 N / 11 E	PROJ. 10215	REPORT BPVR - 84 - 22