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GEOCHEMICAL REPORT

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ALPHA & BETA CLAIMS

CARIBOO MINING DIVISION

N.T.S. 93 J/13

SITUATED AT CO-ORDINATES: 54 DEG 55'N
123 DEG 50'W

NORANDA EXPLORATION COMPANY, LIMITED
(no personal liability)

BY: GORD MAXWELL

GEOLOGICAL BRANCH
ASSESSMENT JUNE 1989 D T

18,883

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SUMMARY:

The Alpha - Beta claims are owned by Mr. E. S. Peters of Vancouver, B. C. The claims were staked to cover favourable ground in the area of recent Cu-Au discoveries in the Salmon River - Mount Milligan areas. The new discoveries include Tas (Noranda-Blackswan), Windy (Placer Dome-Big Bar) and Mount Milligan (Continental Gold-B P Resources). Recon prospecting and sampling by the vendors in 1987 produced several potential Cu-Au targets which warranted further follow up.

Noranda Exploration completed a soil sampling program on both the Alpha and Beta grids during March of 1989. Results show several areas where further sampling is warranted. Further soil sampling, a ground map survey and geologic mapping has been recommended on both claim groups.

INTRODUCTION:

The Alpha - Beta claims are owned by Mr. E. S. Peters of Vancouver, B. C. The claims are located immediately northeast and south of a new Cu-Au showing optioned by Placer-Dome (Windy claims). The property consists of 2 groups of contiguous claims, the Alpha (56 units) and the Beta (76 units). The area is presently the site of strong exploration activity as a result of the newly discovered Mount Milligan Cu-Au bulk tonnage deposit (Continental Gold-BP Resources). Recon geochem completed by the vendors in 1987 indicated several potential Cu-Au targets to be explored.

This report covers follow up work completed by Noranda Exploration personnel from March 21 to March 25, 1989. The work was completed under the supervision of the author.

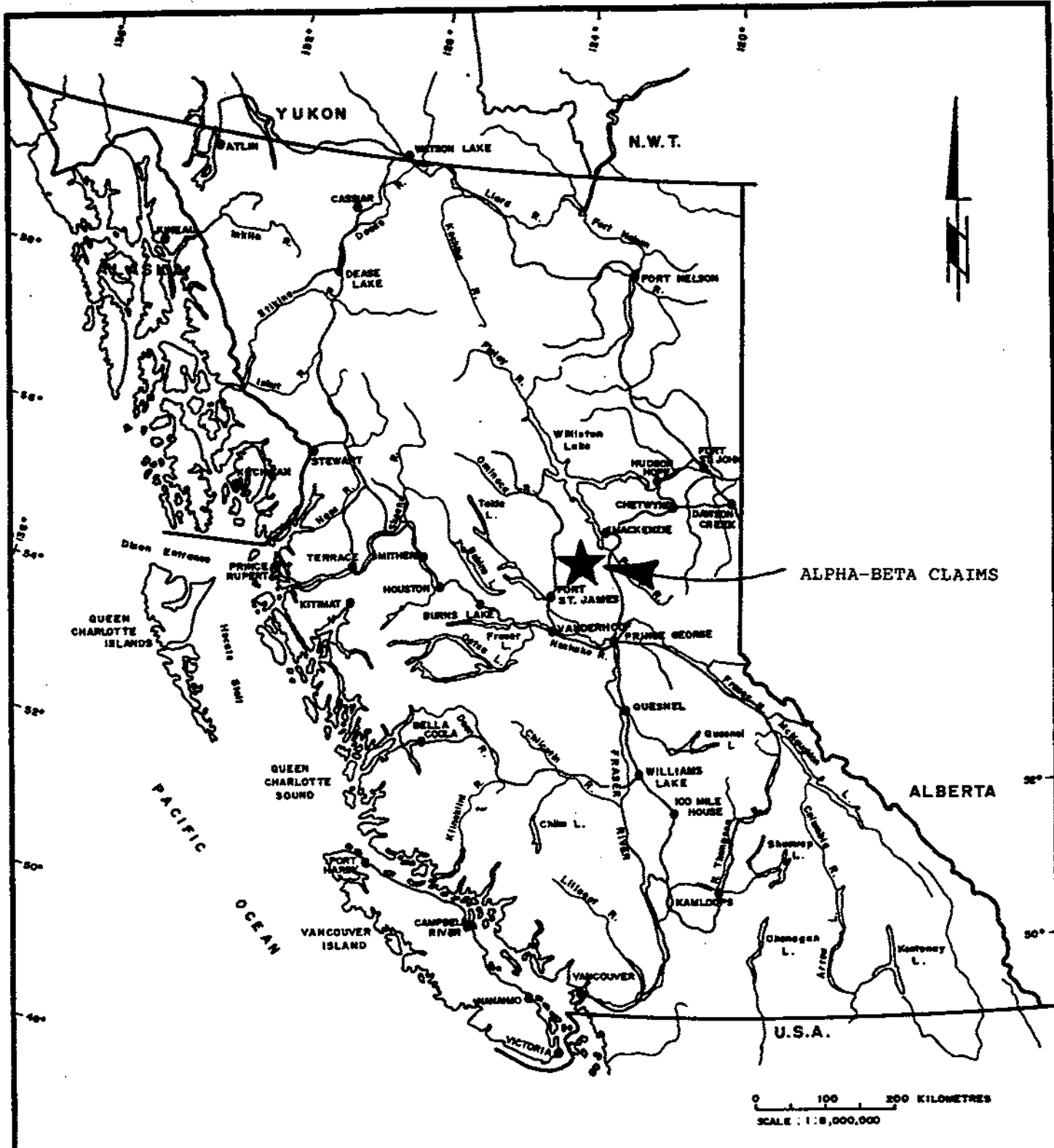
LOCATION & ACCESS

The Alpha - Beta claims lie along the Salmon River approximately 50 km north-northeast of Fort St. James. Access to the property is via the "400" logging road which joins the Germansen Road at approximately 60 km north of Fort St. James. The southern boundary of the Beta claims lies along the logging and access to the interior of this block is via a crude cat road into the Windy property. Access to the west boundary of the Alpha group is by logging roads off the Philips mainline through Mackenzie or by following the cat road across the Windy property. Access to the interior of the Alpha group is by helicopter.

The claims are described as being centred at 54 degrees 55' N and 123 degrees 50' W on N.T.S. map 93 J/13 in the Cariboo Mining Division.

CLAIM STATISTICS

<u>NAME</u>	<u>UNITS</u>	<u>RECORD #</u>	<u>RECORD DATE</u>	<u>OWNER</u>
Alpha 1	20	8337	April 1, 1987	E.S. Peters
Alpha 2	16	8338	April 1, 1987	E.S. Peters
Alpha 3	20	8339	April 1, 1987	E.S. Peters
Beta 1	20	8340	April 1, 1987	E.S. Peters
Beta 2	16	8341	April 1, 1987	E.S. Peters
Beta 3	20	8342	April 1, 1987	E.S. Peters
Beta 4	20	8343	April 1, 1987	E.S. Peters



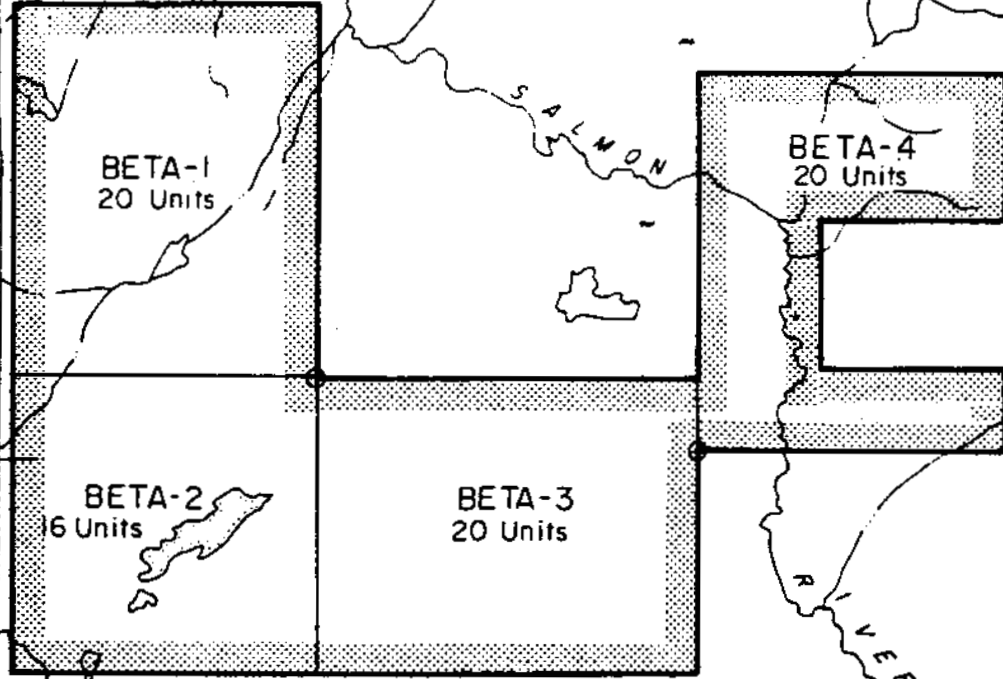
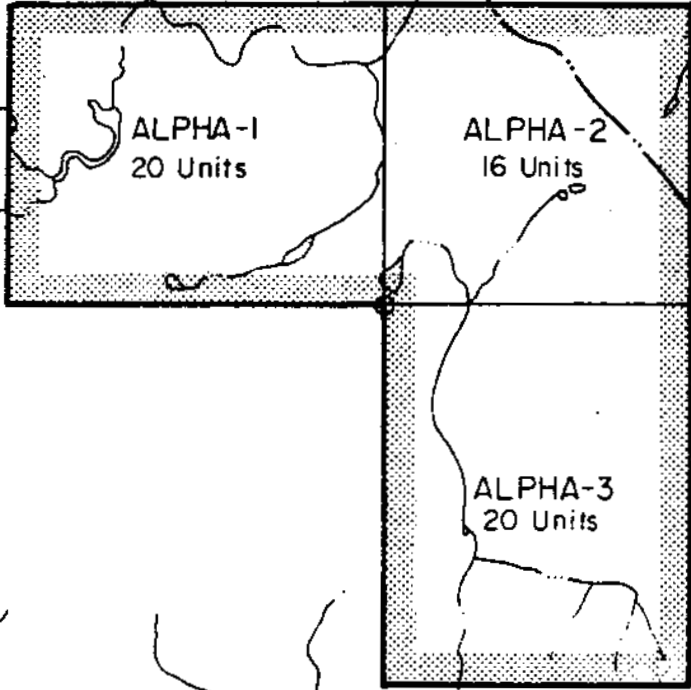
0 100 200 KILOMETRES
SCALE 1:8,000,000

REVISED	ALPHA-BETA CLAIMS
	LOCATION MAP
PROJ. No. 240	SURVEY BY: G. Maxwell DATE: June 1989
N.T.S.	DRAWN BY: S.E.S. SCALE: 1:8,000,000
DWG. No.	NORANDA EXPLORATION
1	OFFICE: PRINCE GEORGE, B.C.

VANCAL 11827



OMINECA M.D.
CARIBOO M.D.



SALMON

54° 55'

123° 45'

REVISED	ALPHA - BETA CLAIMS	
	CLAIM MAP	
PROJ. No. 240	SURVEY BY: G. Maxwell	DATE: June 1989
N.T.S. 93J13	DRAWN BY: G. Maxwell	SCALE: 1:50,000
DWG. No.	NORANDA EXPLORATION	
2	OFFICE: Prince George	

SALMON

TOPOGRAPHY & VEGETATION:

The elevation in the area ranges from 3000 to 3700 feet in heavily wooded and rolling topography. Outcrop on the property is very sparse, usually occurring on knolls and ridges. The area is covered mainly by gravel outwash plains, eskers and drumlins, where very thick second growth pine appears to be growing in an old burned area. There are some areas of marketable timber, but no logging on the Beta property is evident to date. Several areas have been clearcut on the east portion of the Alpha claims.

PREVIOUS WORK:

The earliest known work on the property was placer gold prospecting along the Salmon River. No successful placer operation was ever established. An airborne EM and mag survey was flown by Questor, contracted to Selco Exploration in 1981 over parts of the Salmon River claims. Ground follow up EM and mag was conducted the following year and a target on the property was subsequently drilled.

Further activity in the area was centred on the Windy claims in 1985 and 1986 when several companies conducted property examinations. The claims were eventually optioned to Placer Dome, who completed an aggressive program of linecutting, soil sampling and mag survey and I.P. survey over the core of the property. An access road and a small amount of trenching was also completed later that year.

The first program on the Alpha - Beta property was conducted in 1987 under the supervision of John R. Poloni. This program consisted of prospecting, recon soils, pan concentrates and stream silts. In addition, several rock geochem samples were collected in areas of outcrop.

REGIONAL GEOLOGY:

The area has most recently been described by J. E. Armstrong in G.S.C. Memoir 252, Fort St. James Map-Area in 1949. The area has also been covered on G.S.C. Map 971A by H. M. A. Rice in 1949 (Geology of Smithers - Fort St. James Area).

The Alpha - Beta claims lies in a broad northwest trending package of rocks known as the Quesnel Trough. These include Upper Triassic to Lower Jurassic Takla Group volcanics and sediments which have been intruded by a series of felsic to ultramafic stocks and batholiths, ranging in age from Upper Triassic to Lower Cretaceous.

The Takla group volcanics and sediments include andesitic to basaltic flows, tuffs, tuff breccia and agglomerates interbedded with conglomerates, greywacke, shales and limestones. The intrusive rocks include the Hogem batholith and several other Omineca intrusions consisting of granite, syenite, granodiorite, quartz diorite, diorite, gabbro and pyroxenite.

The area is cut by numerous fault structures usually trending northwest, parallel to the Pinchi Fault. These may be sub-parallel splay faults with tensional or transverse structures trending east-west.

GEOCHEMISTRY:

SOILS - METHOD:

A total of 319 B horizon soil samples were collected between March 21 and 25, 1989 on both the Alpha and Beta grids. The samples were taken through a thick cover of snow using long handled soil augers. Samples were collected from holes ranging in depths of 10 to 35 cm.

The samples were placed in kraft wet-strength paper bags, dried, then shipped to Acme Labs in Vancouver, B. C., for analysis. Samples were analyzed using the 30 element I.C.P. package along with a gold geochem analysis. Results for Cu, Zn, Pb, Ag, Au and As are plotted on 1:10,000 scale maps in rear pockets. All geochem results are included in Appendix IV.

SOILS - OBSERVATIONS:

ALPHA GRID

Gold - Gold values range from 5 to 60 ppb, where values greater than 25 ppb are considered anomalous. The following anomalous samples have been detected on the grid:

<u>Location</u>	<u>Au (ppb)</u>
L40,000E/40,025N - 40,050N	30 - 45
40,175N	60
40,375N	40
40,475N	30
40,700N	30
L40,200E/40,500N	30
40,650N	35
L40,400E/40,100N	45
40,175N	30
40,250N - 40,275N	30
40,400N	55
L40,600E/40,200N	50
40,925N	40

Copper - Copper values range from 6 to 484 ppm and values greater than 100 ppm are considered anomalous. The following anomalies have been detected.

<u>Location</u>	<u>Cu (ppm)</u>
L40,000E/40,100N	103
L40,200E/40,475N	484
40,650N - 40,700N	121 - 150
40,900N	172
L40,400E/40,150N - 40,200N	100 - 138
L40,600E/40,650N - 40,675N	120 - 150

Lead - Lead values range from 2 to 14 ppm, but none of the samples are considered anomalous

Zinc - Zinc values range from 23 to 152 ppm and again, none of the samples collected are considered anomalous.

Silver - Silver values range from 0.1 to 1.3 ppm, but none of the samples are considered anomalous.

Arsenic - Arsenic values range from 2 to 15 ppm and again, no anomalous samples were encountered.

BETA GRID

Gold - Gold values range from 5 to 215 ppb and samples greater than 25 ppb are considered anomalous. The following anomalies were detected:

<u>Location</u>	<u>Au (ppb)</u>
L10,400E/10,00N	70
10,750N	40
L11,600E/10,800N	215
L12,000E/10,550N	40
11,000N	200
11,050N	45
L12,800E/10,550N	45
10,850N	120

Copper - Copper values range from 7 to 156 ppm and values greater than 100 ppm are considered anomalous. The following copper anomalies have been outlined:

<u>Location</u>	<u>Cu (ppm)</u>
L10,000E/10,150N	153
10,400N	156
L10,400E/10,800N	128

Lead - Lead values range from 2 to 21 ppm, none of the samples on this grid are considered anomalous.

Zinc - Zinc values range from 21 to 390 ppm; values greater than 200 ppm are considered anomalous. The following anomalies have been outlined:

<u>Location</u>	<u>Zn (ppm)</u>
L10,000E/10,150N	231
10,350N	363
10,450N	390
10,550N	238

Silver - Silver values range from 0.1 to 2.0 ppm. Samples greater than 2.0 ppm are considered anomalous. No samples on this grid are anomalous.

Arsenic - Arsenic values range from 2.14 ppm; none of the samples on this grid are considered anomalous.

PINE BARK SCABS - METHOD:

Dry bark scabs were collected using a dull knife, from pine trees in the immediate area of each station. A kraft soil bag was filled to the top, then the samples were shipped to Acme Labs in Vancouver, B.C., for analysis. The samples were analyzed for gold only and results are plotted on 1:10,000 scale maps at rear of report.

The geochemical method is as follows:

1. The entire sample is ashed at 580 degrees C for 24 hours (unprepared sample weight recorded on report).
2. All of ashed sample (weight reported) is digested with aqua regia - MIBK extraction - and gold determined by A.A. graphite furnace (detection limit 1 ppb).
3. Gold values are based on the ashed sample weight.

PINE BARK SCABS - OBSERVATIONS:

ALPHA GRID

Sample results range from 1 to 6 ppb Au; no values on this grid are considered anomalous.

BETA GRID

Sample results range from 1 to 162 ppb Au, samples greater than 10 ppb may be considered anomalous. Twelve anomalous samples were noted on the Beta Grid with the highest being 162 ppb. This sample appears to be somewhat coincident with anomalous Au soil geochem results.

CONCLUSIONS:

Soils samples on the Alpha Grid were collected at 25 meter stations along lines spaced 200 meters apart. No strongly anomalous gold samples were detected on this grid, but a large number of samples were greater than the detection limit. Out of 102 samples, 30 fell in the 5 ppb to 25 ppb range and 16 were greater than 25 ppb. This may indicate a potential overburden problem or we may just be on the edge of some large and stronger system. No anomalies are apparent in the pine bark scabs geochem results.

Soil samples on the Beta Grid were taken at wider intervals, as a reconnaissance approach to evaluating a large area. Samples were collected at 50 meter stations along lines 400 meters apart. Gold geochem results show three significant single station anomalies on lines 11,600E, 12,000E and 12,800E. A pine bark scab anomaly on line 12,000E also appears to be somewhat coincident with the gold soil anomaly. A thick layer of overburden covers much of the Beta Grid and hampers soil geochemistry.

RECOMMENDATIONS:

ALPHA CLAIMS

1. Further recon soil sampling along the east boundary.
2. Extend the existing grid to the east and west and complete a mag survey and further soil sampling.
3. Geologic mapping and prospecting of the entire property.

BETA CLAIMS

1. Establish mini soil grids around the three known gold soil anomalies.
2. Fill in the grid with 200 meter spaced lines to facilitate a mag survey.
3. Complete geologic mapping throughout the grid.

APPENDIX I
STATEMENT OF COSTS
ALPHA GROUP

A) WAGES:

Linecutting - 2 mandays @ \$100/day	\$ 200.00
Soil Sampling - 2 mandays @ \$100/day	\$ 200.00
Bark Sampling - 1 manday @ \$100/day	\$ 100.00

B) FOOD & ACCOMMODATINGS & TRANSPORTATION:

5 mandays @ \$50/day	\$ 250.00
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C) ANALYSIS:

Soil samples - 142 @ \$15.25/sample	\$ 2,165.50
Bark Scabs - 22 @ \$11.00/sample	\$ 242.00

D) TRANSPORTATION:

Helicopter Bel 206 2.5 hours @ \$650.00/hour	\$ 1,625.00
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E) COST OF REPORT PREPARATION:

Author	\$ 250.00
Drafting	\$ 100.00
Typing	\$ 50.00
	\$ 5,182.50

APPENDIX I
STATEMENT OF COSTS
BETA GROUP

A) WAGES:

Linecutting - 8 mandays @ \$100/day	\$ 800.00
Soil sampling - 8 mandays @ \$100/day	\$ 800.00
Bark Sampling - 2 mandays @ \$100/day	\$ 200.00

B) FOOD, ACCOMMODATION & TRANSPORTATION:

18 mandays @ \$50/day	\$ 900.00
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C) ANALYSIS:

Soil Samples - 177 @ \$15.25/sample	\$ 2,699.25
Bark Samples - 102 @ \$11.00/sample	\$ 1,122.00

D) COST OF REPORT PREPARATION

Author	\$ 250.00
Drafting	\$ 100.00
Typing	\$ 50.000
	<u>\$ 6,921.25</u>

APPENDIX II

STATEMENT OF QUALIFICATIONS

I, Gordon Maxwell of Prince George, Province of British Columbia, do hereby certify that:

1. I am a Geologist residing at 5905 Rideau Street, Prince George, British Columbia.
2. I am a graduate of the University of Manitoba with an Hons. B. Sc. (geology).
3. I am a member in good standing of the Canadian Institute of Mining and the Prospector's and Developer's Association.
4. I presently hold the position of Project Geologist with Noranda Exploration Company, Limited and have been in their employ since 1980.

G. Maxwell

APPENDIX III

ANALYTICAL METHOD DESCRIPTIONS FOR GEOCHEMICAL ASSESSMENT REPORTS

Revised: 01/86

The methods listed are presently applied to analyse geological materials by the Noranda Geochemical Laboratory at Vancouver. (March, 1984)

Preparation of Samples

Sediments and soils are dried at approximately 80°C and sieved with a 80 mesh nylon screen. The -80 mesh (0.18 mm) fraction is used for analysis.

Rock specimens are pulverized to -120 mesh (0.13 mm). Heavy mineral fractions (panned samples) are analysed in its entirety, when it is to be determined for gold without further sample preparation. See addendum.

Analysis of Samples.

Decomposition of a 0.200 g sample is done with concentrated perchloric and nitric acid (3:1), digested for 5 hours at reflux temperature. Pulps of rock or core are weighed out at 0.2 g or less depending on the matrix of the rock, and twice as much acid is used for decomposition than that is used for silt or soil.

The concentrations of Ag, Cd, Co, Cu, Fe, Mn, Mo, Ni, Pb, V and Zn (all the group A elements of the fee schedule) can be determined directly from the digest (dissolution) with an atomic absorption spectrometer (AA). A Varian-Techtron Model AA-5 or Model AA-475 is used to measure elemental concentrations.

Elements Requiring Specific Decomposition Method

Antimony - Sb: 0.2 g sample is attacked with 3.3 mL of 6% tartaric acid, 1.5 mL conc. hydrochloric acid and 0.5 mL of conc. nitric acid, then heated in a water bath for 3 hours at 95° C. Sb is determined directly from the acid solution with an AA-475 equipped with electrodeless discharge lamp (EDL).

Arsenic - As: 0.2 - 0.4 g sample is digested with 1.5 mL of 70 % perchloric acid and 0.5 mL of conc. nitric acid. A Varian AA-475 equipped with an As-EDL measures the arsenic concentration of the digest.

Barium - Ba: 0.1 g sample is decomposed with conc. perchloric, nitric and hydrofluoric acid. Atomic absorption using a nitrous oxide-acetylene flame determines Ba from the aqueous solution.

Bismuth - Bi: 0.2 g - 0.3 g is digested with 2.0 ml of perchloric 70% and 1.0 ml of conc. nitric acid. Bismuth is determined directly from the digest into the flame of the AA instrument c/w EDL.

Gold - Au: 10.0 g sample (Pan-concentrates see below) is digested with aqua regia (1 part nitric and 3 parts hydrochloric acid). Gold is extracted with Methyl iso-Butyl ketone (MIBK) from the aqueous solution. Gold is determined from the MIBK solution with flame AA.

Magnesium - Mg: 0.05 - 0.10 g sample is digested with 4 ml perchloric/nitric acid (3:1). An aliquot is taken to reduce the concentration to within the range of atomic absorption. The AA-475 with a nitrous oxide flame determines Mg from the aqueous solution.

Tungsten - W: 1.0 g sample sintered with a carbonate flux and thereafter leached with water. The leachate is treated with potassium thiocyanate. The yellow tungsten thiocyanate is extracted into tri-n-butyl phosphate. This permits colourimetric comparison with standards to measure tungsten concentration.

Uranium - U: An aliquot, taken from a perchloric-nitric (3:1) decomposition, usually from the multi-element digestion, is diluted with water and a phosphate buffer. This solution is exposed to laser light, and the luminescence of the uranyl ion is quantitatively measured on the UA-3 (Scintrex).

LOWEST VALUES REPORTED IN PPM

Ag - 0.2	Mn - 20	Zn - 1	Au - 0.01 (10PPB)
Cd - 0.2	Mo - 1	Sb - 1	W - 2
Co - 1	Ni - 1	As - 1	U - 0.1
Cu - 1	Pb - 1	Ba - 10	
Fe - 100	V - 10	Bi - 1	

File: Alpha Beta
 Property Submission

NORANDA VANCOUVER LABORATORY

PROPERTY/LOCATION: SALMON RIVER

CODE : 8904-006

Project No. : 240

Sheet: 1 of 6

Date rec'd: MAR. 31

Material : 320 SOILS

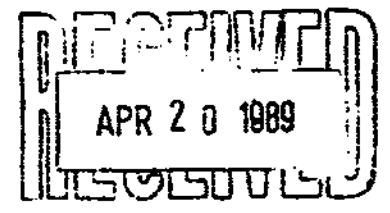
Geol.: G.M.

Date compl: APR. 10

Remarks :

Values in PPM, except where noted.

R. T. No.	SAMPLE No.	PPB Au
42	10000E-10150N	5
43	10300	5
44	10350	5
45	10400	5
46	10450	5
47	10550	5
48	10600	10
49	10650	5
50	10700	5
52	10750	20
53	10800	5
54	10850	20
55	10900	5
56	10950	5
57	11050	5
58	11100	5
59	11150	5
60	11200	5
61	11250	5
62	11300	5
63	10000E-11350N	5
64	10400E-10000N	70
65	10050	5
66	10100	5
67	10150	5
68	10200	5
69	10250	5
70	10300	5
71	10350	5
72	10400	5
73	10450	5
74	10500	5
75	10550	10
76	10600	5
77	10650	5
78	10700	5
79	10750	40
80	10800	5
81	10900	5
82	10950	5
83	11000	5
84	11050	5
85	11100	5
86	11150	5
87	11200	5
88	11250	10
89	11300	5
90	10400E-11350N	5



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.T. C.	SAMPLE No.	ppb Au
1	10400E-11400N	5
32	11450	5
33	10400E-11500N	5
34	10800E-10250N	5
35	10350	5
36	10500	5
37	10550	5
38	10600	5
39	10700	5
40	10750	5
52	10950	5
53	11100	5
54	11150	5
55	11100	5
56	11200	5
57	11400	5
58	10800E-11500N	5
59	11200E-10050N	5
60	10100	20
61	10150	5
62	10200	5
63	10250	5
64	10300	5
65	10350	5
66	10400	5
67	10450	5
68	10500	5
69	10550	5
70	10800	5
71	10850	5
72	10900	5
73	10950	5
74	11000	5
75	11300	5
76	11350	5
77	11400	5
78	11450	5
79	11200E-11500N	5
80	11600E-10050N	5
81	10100	5
82	10150	5
83	10200	5
84	10250	5
85	10300	5
86	10350	5
87	10400	5
88	10450	5
89	10500	5
90	10550	5
91	10600	5
92	10650	5
93	10700	5
94	10750	5
95	10800	215
96	10850	5
97	10900	5
98	11600E-11000N	5

T. No.	SAMPLE No.	PPB Au
9	11600E-11050N	5
10	11100	5
2	11150	10
3	11200	5
4	11250	5
5	11350	5
6	11400	15
7	11450	5
8	11600E-11500N	5
9	12000E-10050N	5
10	10100	5
11	10150	5
12	10200	5
13	10250	5
14	10300	5
15	10350	5
16	10400	5
17	10450	10
18	10500	40
19	10550	5
20	10600	5
21	10650	5
22	10700	5
23	10750	10
24	10800	5
25	10850	10
26	10900	30
27	10950	5
28	11000	200
29	11050	45
30	11100	5
31	11150	5
32	11200	15
33	11250	15
34	11300	10
35	11350	5
36	11400	5
37	11450	5
38	12000E-11500N	5
39	12400E-10050N	20
40	10250	5
41	10300	5
42	10400	5
43	10450	15
44	10500	5
45	10600	5
46	10650	5
47	10700	5
48	10750	10
49	10800	10
50	10850	10
52	10900	5
53	12400E-10950N	10
54	12800E-10050N	5
55	10100	5
56	10150	5
57	12800E-10200N	5

T. No.	SAMPLE No.	ppb Au
58	12800E-10500N	25
59	10550	45
60	10600	5
61	10650	5
62	10700	5
63	10750	5
64	10800	5
65	10850	120
66	10900	10
67	10950	5
68	11000	5
69	11050	5
70	11100	5
71	11150	5
72	12800E-11200N	5
73	40000E-40000N	5
74	40025	30
75	40050	45
76	40075	20
77	40100	10
78	40125	5
79	40150	10
80	40175	50
81	40200	15
82	40225	5
83	40250	20
84	40275	5
85	40300	10
86	40325	5
87	40350	5
88	40375	40
89	40400	5
90	40425	10
91	40450	10
92	40475	30
93	40500	5
94	40525	5
95	40550	5
96	40575	10
97	40600	5
98	40625	5
99	40675	20
100	40700	30
1	40725	5
2	40775	5
3	40825	5
4	40000E-40875N	5
5	40200E-40000N	5
6	40025	20
7	40050	5
8	40075	5
9	40100	5
10	40125	5
11	40150	5
12	40175	5
13	40200	5
14	40200E-40225N	5
15		5

.T. a.	SAMPLE No.	PPB Au
6	40200E-40250N	10
17	40275	5
18	40300	5
19	40325	5
20	40350	5
21	40375	5
22	40400	5
23	40425	5
24	40450	5
25	40475	10
26	40500	30
27	40525	5
28	40550	5
29	40575	5
30	40600	5
31	40625	5
32	40650	35
33	40675	5
34	40700	5
35	40725	5
36	40800	10
37	40825	5
38	40850	20
39	40875	5
40	40200E-40900N	5
41	40400E-40000N	20
42	40025	10
43	40050	5
44	40075	5
45	40100	45
46	40125	10
47	40150	5
48	40175	30
49	40200	5
50	40225	5
52	40250	30
53	40275	30
54	40300	5
55	40325	5
56	40350	5
57	40375	5
58	40400	55
59	40425	5
60	40450	5
61	40475	5
62	40500	10
63	40525	5
64	40550	5
65	40575	5
66	40600	5
67	40625	5
68	40650	5
69	40675	5
70	40700	5
71	40725	5
72	40750	20
73	40400E-40775N	20

T.
No.

SAMPLE
No.

PPB
Au

8904-006
Pg. 6 of 6

74	40400E-40800N	5
75	40825	20
76	40850	5
77	40875	5
78	40900	5
79	40925	5
80	40950	5
81	40975	5
82	40400E-41000N	5
83	40600E-40025N	5
84	40050	5
85	40075	5
86	40100	5
87	40125	5
88	40150	25
89	40175	5
90	40200	50
91	40225	10
92	40225 DUP?	15
93	40250	5
94	40275	5
95	40300	5
96	40325	5
97	40350	5
98	40400	5
99	40425	5
00	40475	10
52	40500	15
53	40525	10
54	40550	10
55	40600	5
56	40625	5
57	40650	5
58	40675	5
59	40725	5
60	40750	5
61	40775	5
62	40825	5
63	40850	5
64	40875	10
65	40900	5
66	40925	40
67	40975	10
68	40600E-41000N	10

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

DATE RECEIVED: APR 5 1989

DATE REPORT MAILED: April. 14/89

GEOCHEMICAL ANALYSIS CERTIFICATE

- SAMPLE TYPE: BARK
AU* ANALYSIS BY ACID LEACH/AA FROM TOTAL SAMPLE.

SIGNED BY *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8904-006 240 FILE # 89-0734 Page 1

SAMPLE#	AU*	SAMPLE	ASHED
	ppb	wt. gm	wt. gm
L10000E 11400N	1	60	1.96
L10000E 11300N	9	54	1.96
L10000E 11200N	6	52	1.86
L10000E 11100N	2	37	2.00
L10000E 11000N	9	50	2.22
L10000E 10900N	1	22	2.42
L10000E 10800N	6	46	1.81
L10000E 10700N	3	19	1.60
L10000E 10600N	3	26	1.32
L10000E 10500N	7	22	1.37
L10000E 10400N	11	47	1.62
L10000E 10300N	5	69	1.93
L10000E 10200N	10	56	1.84
L10000E 10100N	10	29	1.74
L10000E 10000N	23	44	2.13
L10400E 11500N	7	29	1.34
L10400E 11400N	7	26	1.38
L10400E 11300N	8	53	2.33
L10400E 11200N	6	64	3.60
L10400E 11100N	15	84	3.28
L10400E 11000N	1	79	2.30
L10400E 10900N	6	36	1.54
L10400E 10800N	9	59	2.26
L10400E 10700N	5	75	2.45
L10400E 10600N	2	54	1.84
L10400E 10500N	5	61	2.05
L10400E 10400N	4	57	2.96
L10400E 10300N	3	89	3.98
L10400E 10200N	1	78	3.26
L10400E 10100N	2	43	2.24
L10400E 10000N	9	46	2.28
L10800E 11400N	8	49	1.14
L10800E 11200N	4	81	2.80
L10800E 11100N	22	94	2.32
L10800E 11000N	6	48	3.65
L10800E 10900N	8	77	2.68

SAMPLE#	AU*	SAMPLE	ASHED
	ppb	wt. gm	wt. gm
L10800E 10800N	3	55	1.81
L10800E 10700N	3	42	1.71
L10800E 10600N	1	43	1.53
L10800E 10500N	1	36	.79
L10800E 10400N	1	48	1.76
L10800E 10300N	1	73	1.81
L10800E 10100N	1	31	.75
L11200E 11300N	4	85	3.23
L11200E 11200N	1	39	.71
L11200E 11100N	1	29	.42
L11200E 10900N	1	56	.88
L11200E 10500N	1	76	2.36
L11200E 10400N	1	58	1.88
L11200E 10300N	1	27	1.03
L11200E 10200N	2	70	2.28
L11200E 10100N	1	25	1.27
L11600E 11500N	1	21	.23
L11600E 11400N	1	32	.89
L11600E 11300N	1	28	.54
L11600E 11200N	1	31	.73
L11600E 11100N	7	20	.41
L11600E 11000N	-1	32	1.11
L11600E 10900N	1	22	1.03
L11600E 10800N	1	54	1.54
L11600E 10700N	1	64	2.26
L11600E 10600N	1	54	1.71
L11600E 10500N	1	63	1.12
L11600E 10400N	1	66	1.18
L11600E 10300N	1	51	1.23
L11600E 10200N	1	48	1.18
L11600E 10100N	1	58	1.33
L12000E 11300N	5	29	.69
L12000E 11200N	1	34	.56
L12000E 11100N	2	27	.48
L12000E 11000N	1	31	.73
L12000E 10900N	7	32	.40

SAMPLE#	AU*	SAMPLE	ASHED
	ppb	wt. gm	wt. gm
L12000E 10800N	162	22	.44
L12000E 10700N	1	39	1.00
L12000E 10500N	4	72	2.63
L12000E 10400N	1	87	3.64
L12000E 10300N	1	61	2.34
L12000E 10200N	8	43	1.66
L12000E 10100N	12	48	.75
L12400E 10800N	1	79	2.02
L12400E 10700N	4	50	2.11
L12400E 10600N	7	54	2.86
L12400E 10500N	12	74	2.36
L12400E 10400N	2	95	3.40
L12400E 10300N	1	46	.97
L12400E 10200N	10	63	1.72
L12400E 10100N	4	47	.65
L12800E 11500N	8	29	.55
L12800E 11400N	7	32	.92
L12800E 11300N	1	26	.62
L12800E 11200N	2	34	.69
L12800E 11100N	1	42	.94
L12800E 11000N	1	28	1.11
L12800E 10900N	1	43	1.37
L12800E 10800N	13	20	.54
L12800E 10700N	4	33	.53
L12800E 10600N	2	34	1.00
L12800E 10500N	12	17	.35
L12800E 10400N	1	38	1.29
L12800E 10300N	3	24	.57
L12800E 10200N	5	29	.51
L12800E 10100N	17	11	.34

SAMPLE#	AU* SAMPLE		ASHED
	ppb	wt. gm	wt. gm
L40200E 41000N	4	39	1.51
L40200E 40900N	2	37	1.07
L40200E 40800N	1	55	1.82
L40200E 40700N	1	48	1.78
L40200E 40600N	5	45	1.54
L40200E 40500N	1	39	1.02
L40200E 40400N	1	44	1.20
L40200E 40300N	6	42	1.19
L40200E 40200N	3	53	.72
L40200E 40100N	5	34	.83
L40200E 40000N	1	27	.60
L40600E 41000N	1	41	1.39
L40600E 40900N	1	54	1.08
L40600E 40800N	6	37	1.25
L40600E 40700N	1	37	1.18
L40600E 40600N	1	41	2.23
L40600E 40500N	1	21	1.04
L40600E 40400N	1	38	1.26
L40600E 40300N	1	19	.63
L40600E 40200N	1	40	1.34
L40600E 40100N	1	33	1.22
L40600E 40000N	-1	30	1.11

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR NH FE SR CA P LA CR MG BA TI B V AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: SOIL PULP

File Alpha Beta

DATE RECEIVED: APR 12 1989 DATE REPORT MAILED: April 14/89 SIGNED BY: [Signature] D.TOTE, C.LBONG, J.WANG; CERTIFIED B.C. ASSAYERS

NORANDA EXPLORATION CO. LTD. PROJECT 8904-006 240 File # 89-0786 Page 1

Table with columns: SAMPLE#, Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, F, La, Cr, Mg, Ba, Ti, B, Al, Na, K, W. Rows include sample IDs like 10000E 10150N and a final row for STD C.

RECEIVED APR 24 1989

SAMPLE#	Mo PPM	Cu PPM	Pb PPM	Zn PPM	Ag PPM	Ni PPM	Co PPM	Mn PPM	Fe %	As PPM	U PPM	Au PPM	Tb PPM	Sr PPM	Ca PPM	Sb PPM	Bi PPM	V PPM	Cr %	P %	La PPM	Cr PPM	Mg %	Ba PPM	Ti %	B PPM	Al %	Na %	K %	N PPM
10400E 10750W	1	41	9	105	.1	20	14	1054	2.79	4	5	ND	1	43	1	2	6	75	.63	.078	6	31	.47	124	.07	3	1.11	.01	.07	1
10400E 10800W	1	128	10	125	.4	47	17	1577	3.76	6	5	ND	1	67	1	2	5	79	1.23	.175	19	50	.76	214	.04	2	3.00	.01	.13	1
10400E 10900W	1	88	15	145	.1	25	10	720	1.88	3	5	ND	1	60	1	2	2	49	1.14	.099	7	26	.37	140	.04	5	.89	.01	.06	1
10400E 10950W	1	17	8	59	.1	8	5	389	2.72	2	5	ND	1	30	1	2	2	95	.33	.098	6	23	.31	63	.11	2	1.72	.01	.05	2
10400E 11000W	1	45	12	118	.5	33	16	927	2.48	4	5	ND	1	41	1	3	3	63	.46	.142	9	34	.41	231	.05	2	1.38	.01	.06	1
10400E 11050W	1	36	7	106	.3	21	11	943	2.78	4	5	ND	1	54	1	2	2	71	.92	.135	6	31	.64	123	.09	4	1.25	.01	.08	1
10400E 11100W	1	27	10	108	.1	16	18	1643	3.02	6	5	ND	1	47	1	2	3	75	.63	.217	6	31	.53	160	.09	2	1.37	.01	.08	1
10400E 11150W	1	26	5	81	.2	14	8	619	2.68	2	5	ND	1	37	1	2	2	72	.46	.086	6	28	.56	89	.09	7	1.06	.01	.06	1
10400E 11200W	1	46	9	43	.3	19	7	196	1.94	3	5	ND	1	33	1	2	3	49	.31	.110	6	24	.32	144	.04	4	1.12	.01	.04	2
10400E 11250W	1	44	5	55	.2	16	5	198	1.66	2	5	ND	1	38	1	2	2	53	.34	.056	8	24	.18	136	.05	2	.72	.01	.04	1
10400E 11300W	1	78	7	131	.9	28	7	869	2.25	2	5	ND	1	56	1	2	2	55	.67	.118	6	31	.46	214	.03	3	.99	.01	.07	1
10400E 11350W	1	22	4	59	.6	50	10	402	1.88	2	5	ND	1	24	1	2	2	53	.37	.061	5	194	1.14	91	.09	6	1.02	.01	.05	1
10400E 11400W	1	22	6	58	.7	51	10	286	2.16	2	5	ND	1	22	1	2	3	57	.32	.074	5	194	1.19	73	.10	2	1.25	.01	.05	1
10400E 11450W	1	36	5	75	.1	80	13	342	3.21	2	5	ND	1	27	1	2	2	79	.37	.031	3	238	1.53	62	.12	2	1.96	.01	.03	1
10400E 11500W	1	42	7	75	.1	34	10	240	4.17	4	5	ND	1	34	1	2	2	101	.38	.030	5	76	.91	77	.14	2	1.93	.01	.03	1
10800E 10250W	1	14	7	61	.3	15	6	622	1.63	2	5	ND	1	51	1	2	5	55	.76	.047	5	24	.66	147	.12	3	1.04	.01	.07	1
10800E 10350W	1	15	6	67	.1	9	6	306	2.15	3	5	ND	1	27	1	2	3	64	.31	.074	7	22	.30	51	.08	2	.93	.01	.05	1
10800E 10500W	1	17	10	87	.1	15	7	943	2.65	2	5	ND	1	35	1	2	2	77	.54	.119	5	31	.39	73	.09	2	1.26	.01	.06	1
10800E 10550W	1	18	8	58	.1	8	5	750	1.50	3	5	ND	1	37	1	2	5	51	.47	.084	6	19	.33	92	.10	2	.82	.01	.05	1
10800E 10600W	1	19	9	47	.3	15	6	167	2.37	4	5	ND	3	35	1	2	3	71	.36	.047	7	29	.39	68	.11	17	1.13	.01	.04	1
10800E 10700W	1	35	8	72	.5	19	10	324	2.93	5	5	ND	1	33	1	2	3	81	.45	.104	5	32	.67	88	.11	4	1.36	.01	.05	1
10800E 10750W	1	22	7	41	.1	14	6	223	2.02	4	5	ND	1	45	1	2	2	74	.50	.047	5	25	.33	113	.09	2	.88	.01	.04	1
10800E 10950W	1	16	6	61	.3	7	2	998	.53	2	5	ND	1	76	1	2	2	15	1.80	.098	2	10	.14	295	.02	10	.25	.01	.06	1
10800E 11000W	1	18	4	101	.1	11	5	768	1.58	4	5	ND	1	62	1	2	2	47	1.38	.070	3	16	.27	207	.06	6	.61	.01	.07	1
10800E 11050W	1	16	6	71	.1	13	8	379	2.76	2	5	ND	1	38	1	2	2	85	.50	.067	6	27	.55	102	.13	5	1.07	.01	.09	1
10800E 11100W	1	18	3	54	.3	9	4	253	1.21	2	5	ND	1	46	1	2	2	41	.86	.045	4	17	.16	146	.05	3	.44	.01	.04	1
10800E 11200W	1	63	8	133	.8	21	9	971	1.59	2	5	ND	1	159	2	2	2	36	3.71	.069	7	20	.35	119	.04	17	.87	.01	.06	1
10800E 11400W	1	26	7	37	.7	11	4	213	1.22	3	5	ND	1	33	1	2	2	33	.34	.081	6	15	.21	94	.04	2	.71	.01	.06	2
10800E 11500W	1	21	9	33	.3	6	3	124	1.27	3	5	ND	1	31	1	2	2	46	.31	.038	7	17	.15	86	.07	2	.74	.01	.04	2
11200E 10650W	1	23	5	33	.1	9	5	205	1.56	3	5	ND	1	36	1	2	2	54	.31	.045	6	18	.17	88	.07	3	.68	.01	.04	2
11200E 10100W	1	23	5	47	.2	12	5	169	2.16	3	5	ND	1	42	1	2	2	62	.48	.099	5	20	.29	86	.07	4	.94	.01	.05	1
11200E 10150W	1	17	5	43	.6	8	5	262	1.93	4	5	ND	1	41	1	2	2	65	.45	.093	5	20	.21	100	.08	8	.80	.01	.04	1
11200E 10200W	1	27	5	43	.4	12	5	176	1.55	2	5	ND	1	44	1	2	2	51	.35	.054	7	17	.18	140	.06	3	.64	.01	.06	1
11200E 10250W	1	16	6	52	.5	6	3	235	1.03	3	5	ND	1	58	1	2	2	30	.57	.093	3	13	.15	170	.03	5	.33	.01	.06	1
11200E 10300W	1	21	7	51	.1	11	5	445	2.00	7	5	ND	1	49	1	2	2	66	.54	.097	5	21	.20	119	.08	3	.63	.01	.04	1
11200E 10350W	1	35	5	60	.5	20	11	415	2.33	6	6	ND	2	52	1	2	3	64	.63	.084	9	27	.42	94	.07	6	1.11	.01	.05	1
STD C	19	63	40	133	7.4	69	31	1036	3.89	42	21	8	40	51	19	14	23	61	.47	.094	41	54	.89	181	.07	40	1.81	.06	.13	12

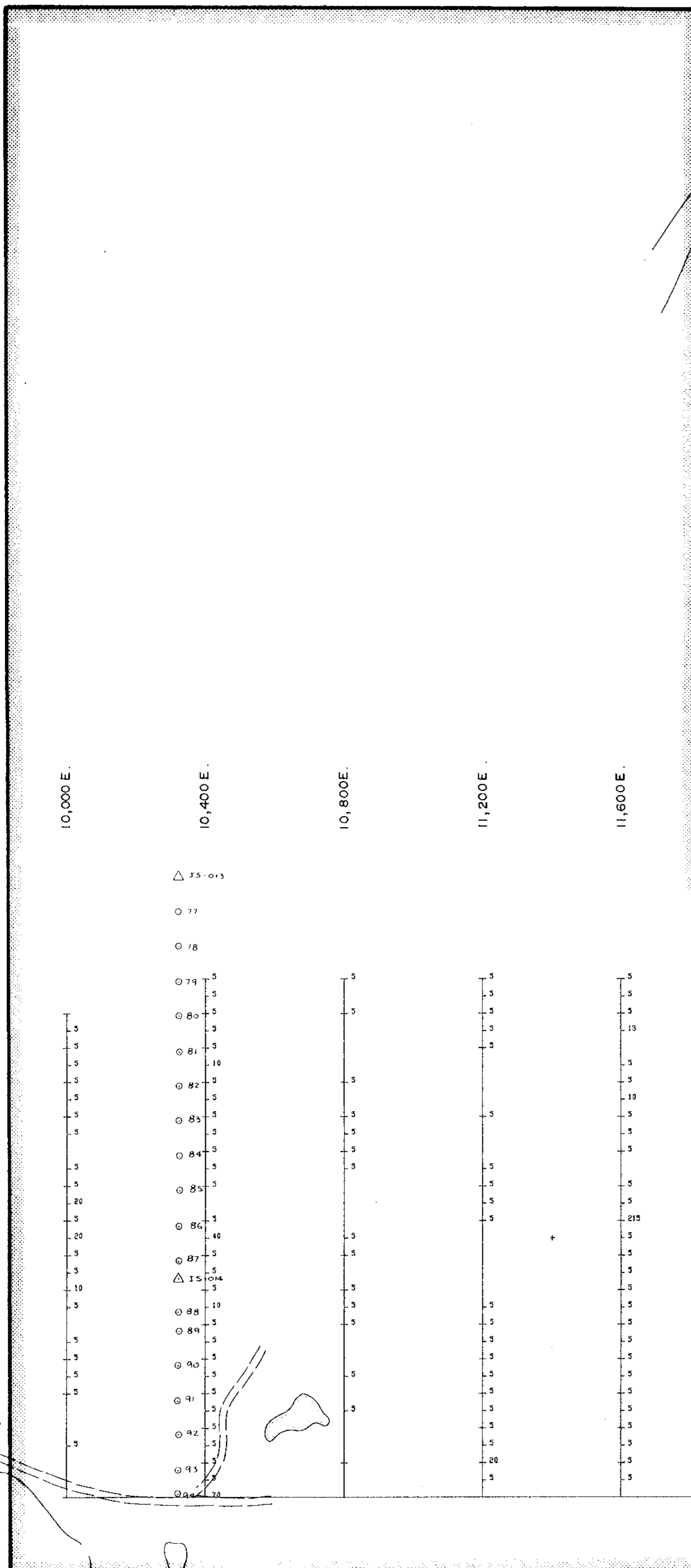
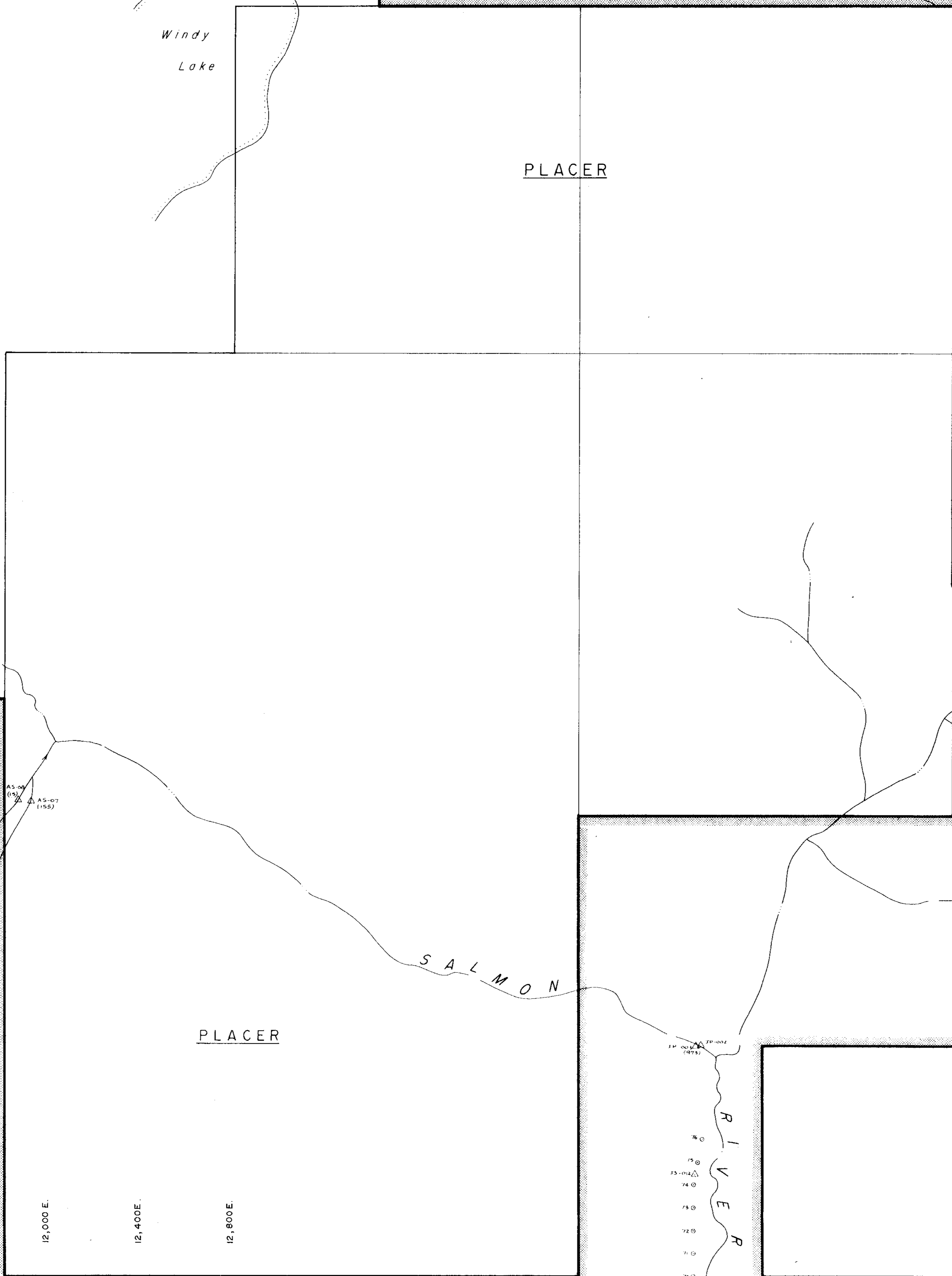
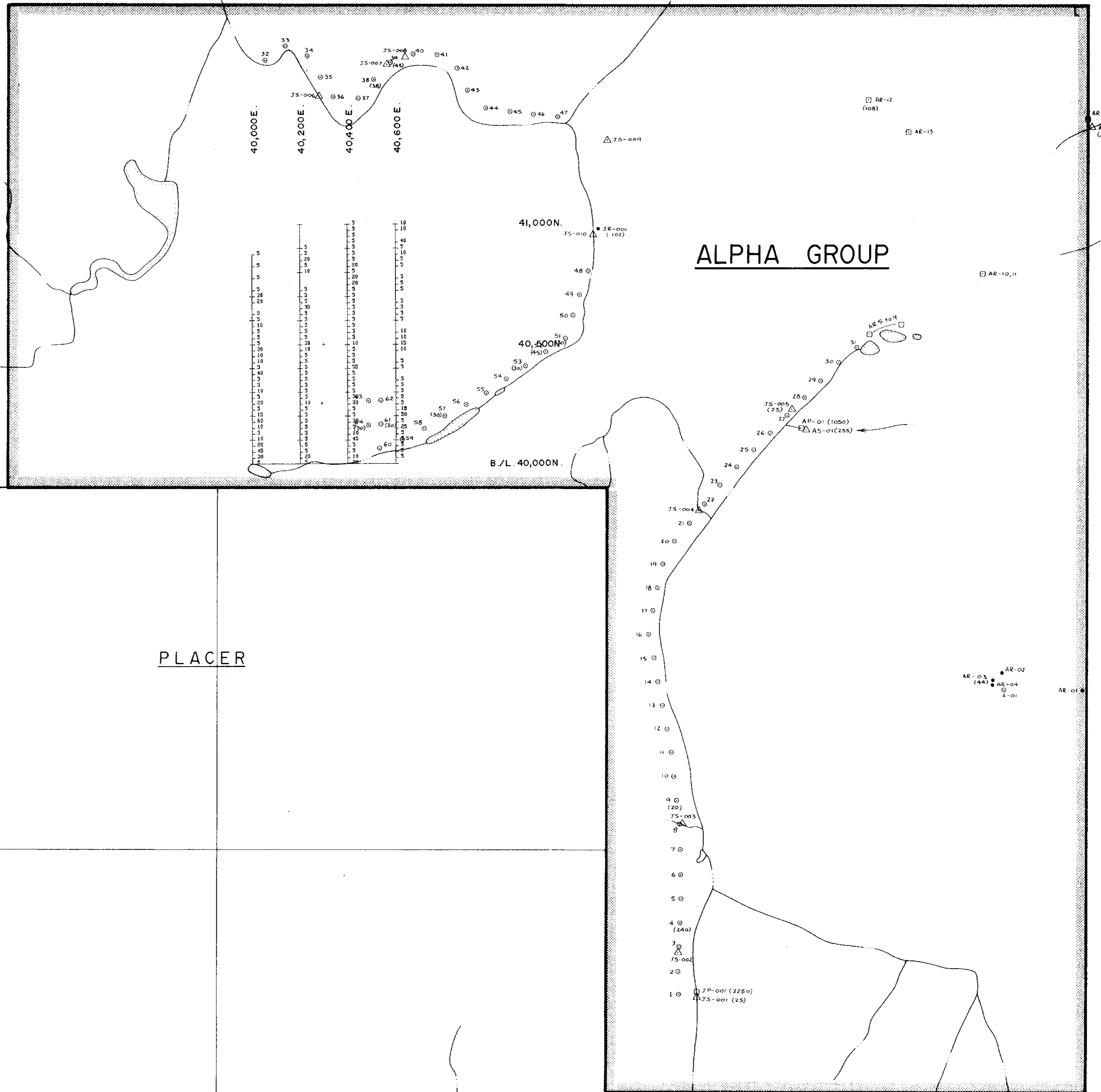
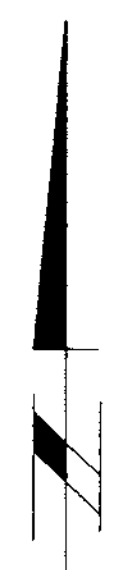
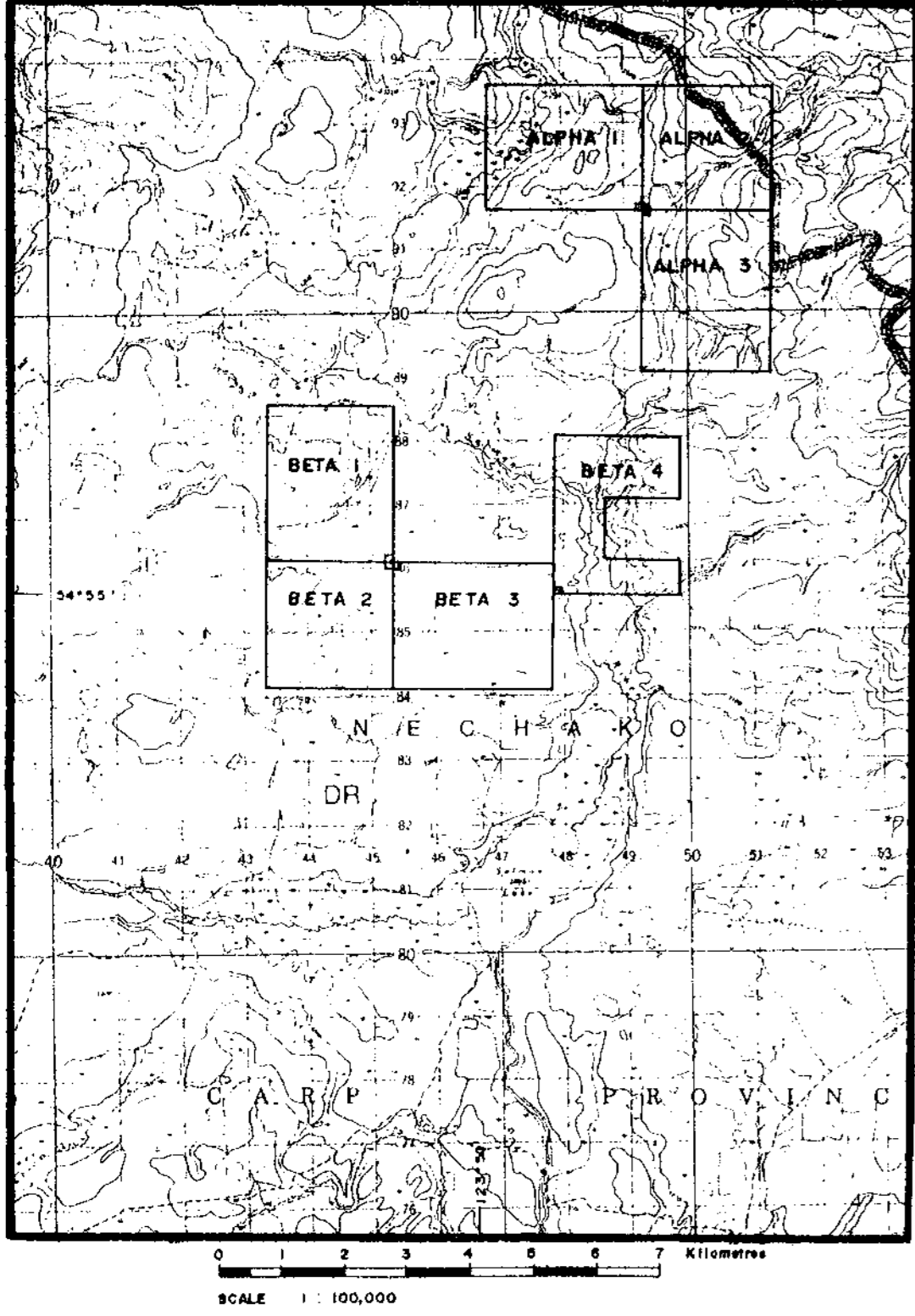
NORANDA EXPLORATION CO. LTD. PROJECT 8904-006 240 FILE # 89-0786

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	Zi %	B PPM	Al %	Na %	K %	N PPM
11200E 10400N	1	48	7	72	1.5	16	10	1600	1.37	2	5	ND	1	72	1	2	2	32	.96	.174	11	19	.27	130	.02	4	1.14	.01	.07	1
11200E 10450N	1	20	7	72	.1	14	6	444	2.04	2	5	ND	1	38	1	2	2	90	.44	.115	5	28	.35	109	.10	2	.87	.01	.04	1
11200E 10500N	1	18	2	48	.2	13	5	310	1.67	2	5	ND	1	39	1	2	2	55	.33	.060	7	25	.34	103	.08	4	.94	.01	.04	1
11200E 10550N	1	24	8	59	.1	19	8	394	2.52	6	5	ND	1	36	1	2	2	73	.36	.091	7	30	.40	63	.10	4	1.14	.01	.04	1
11200E 10800N	1	23	6	134	.2	19	11	448	3.56	5	5	ND	1	39	1	3	2	83	.43	.236	6	33	.39	98	.09	2	1.95	.01	.08	1
11200E 10850N	1	12	9	84	.1	14	7	384	2.74	6	5	ND	1	31	1	2	2	80	.38	.113	5	29	.44	110	.11	2	1.11	.01	.05	1
11200E 10900N	1	39	8	93	.2	31	13	605	4.11	9	5	ND	1	33	1	2	2	100	.39	.294	7	42	.56	106	.09	3	2.24	.01	.05	1
11200E 10950N	1	22	5	71	.1	16	9	435	3.60	7	5	ND	1	32	1	2	2	121	.40	.111	6	28	.64	65	.17	12	1.06	.01	.04	1
11200E 11100N	1	11	7	79	.2	11	6	281	2.18	4	5	ND	1	30	1	4	2	75	.33	.059	6	25	.44	92	.11	4	1.09	.01	.04	1
11200E 11300N	1	7	9	58	.1	7	4	318	1.98	2	5	ND	1	32	1	2	2	77	.35	.059	7	20	.24	65	.13	8	1.08	.01	.04	1
11200E 11350N	1	12	18	101	.1	11	6	639	2.83	3	5	ND	1	35	1	2	2	89	.46	.147	7	26	.35	89	.13	3	1.96	.01	.06	1
11200E 11400N	1	29	17	134	.2	13	8	799	3.74	4	5	ND	1	29	1	2	2	89	.45	.207	6	31	.39	97	.10	4	1.16	.01	.07	1
11200E 11450N	1	21	9	102	.1	13	7	444	3.51	5	5	ND	2	25	1	2	2	91	.31	.193	6	30	.37	71	.10	4	2.61	.01	.06	1
11200E 11500N	1	10	11	59	.3	8	5	220	2.36	4	5	ND	2	28	1	2	2	87	.28	.086	8	24	.28	56	.14	2	1.46	.01	.04	1
11600E 10850N	1	16	9	44	.2	37	5	155	1.45	3	5	ND	1	32	1	2	2	48	.29	.034	8	27	.42	70	.09	4	1.15	.01	.04	1
11600E 10100N	1	29	7	84	.7	50	13	449	2.87	6	5	ND	2	41	1	3	2	79	.35	.059	11	34	.65	175	.09	3	1.76	.01	.05	1
11600E 10150N	1	12	4	41	.6	15	4	167	1.28	2	5	ND	1	35	1	3	2	47	.34	.034	8	19	.23	84	.10	2	.80	.01	.04	2
11600E 10200N	1	19	5	64	.2	44	9	331	2.49	3	5	ND	1	37	1	2	2	73	.33	.056	7	30	.53	91	.09	2	1.12	.01	.04	1
11600E 10250N	1	15	4	37	.3	45	10	323	1.31	2	5	ND	1	44	1	2	2	46	.38	.040	8	25	.45	108	.07	4	.82	.01	.04	2
11600E 10300N	1	9	7	46	.1	13	4	165	1.27	2	5	ND	1	30	1	2	2	44	.27	.043	8	21	.15	87	.06	2	.69	.01	.04	2
11600E 10350N	3	10	6	66	.2	11	6	308	1.71	3	5	ND	1	31	1	2	3	63	.29	.055	9	23	.20	95	.09	2	.85	.01	.05	1
11600E 10400N	6	14	6	69	.2	24	10	522	1.88	3	5	ND	1	37	1	2	2	91	.31	.061	8	21	.36	116	.09	2	.80	.01	.08	1
11600E 10450N	1	20	5	44	.1	11	3	725	1.26	3	5	ND	1	43	1	2	2	47	.41	.041	8	17	.24	120	.06	2	.90	.01	.04	1
11600E 10500N	1	26	6	46	.3	13	6	498	1.29	2	5	ND	1	42	1	2	2	46	.39	.046	9	18	.23	130	.04	3	.82	.01	.04	1
11600E 10550N	1	24	5	43	.5	9	4	627	1.09	4	5	ND	1	41	1	3	2	40	.42	.046	8	15	.16	121	.05	4	.74	.01	.04	2
11600E 10600N	1	27	6	47	.5	9	4	622	1.08	3	5	ND	1	48	1	2	2	37	.51	.054	8	14	.15	154	.03	2	.69	.01	.05	3
11600E 10650N	1	24	7	52	.7	12	6	1178	1.35	6	5	ND	1	45	1	2	2	48	.43	.053	8	21	.22	161	.04	4	.79	.01	.05	1
11600E 10700N	1	29	3	68	.2	18	7	420	2.80	7	5	ND	1	37	1	3	2	86	.43	.146	7	34	.39	71	.08	4	.93	.01	.07	1
11600E 10750N	1	34	2	84	.1	17	10	508	3.43	10	5	ND	1	38	1	2	3	99	.44	.168	6	34	.51	70	.09	3	1.16	.01	.06	1
11600E 10800N	1	35	10	94	.1	21	9	454	3.54	8	5	ND	1	39	1	2	2	97	.46	.171	7	38	.55	76	.09	2	1.37	.01	.06	1
11600E 10850N	1	28	4	69	.1	18	8	328	2.44	8	5	ND	1	33	1	3	2	93	.34	.079	5	32	.52	59	.09	2	1.22	.01	.05	1
11600E 10900N	1	14	3	97	.1	16	9	359	2.95	4	5	ND	2	33	1	2	2	82	.36	.102	5	31	.45	67	.10	3	1.58	.01	.06	1
11600E 11000N	1	17	5	111	.3	14	10	479	2.96	5	5	ND	1	34	1	2	2	81	.39	.103	5	31	.47	84	.10	2	1.68	.01	.06	1
11600E 11050N	1	28	10	115	.5	25	10	284	3.57	5	5	ND	3	21	1	3	2	76	.20	.170	10	37	.51	75	.09	2	2.37	.01	.05	1
11600E 11100N	1	18	9	107	.1	14	8	374	2.97	6	5	ND	2	24	1	2	3	82	.26	.195	6	31	.36	85	.10	3	2.00	.01	.05	1
11600E 11150N	1	27	8	62	.2	18	8	267	2.80	7	5	ND	2	31	1	2	2	81	.32	.060	6	32	.49	69	.09	4	1.24	.01	.05	1
STD C	19	63	37	138	7.3	73	31	1042	3.94	42	20	8	40	52	19	15	23	61	.46	.092	41	54	.87	180	.07	37	1.70	.06	.13	12

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	N
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	%	%	%	%	PPM
12400E 10050N	1	31	3	50	.1	20	8	269	2.19	5	5	ND	2	51	1	2	3	63	.16	.067	11	31	.52	95	.11	4	1.33	.01	.04	1
12400E 10250N	1	11	5	28	.5	12	3	127	.88	2	5	ND	1	37	1	2	2	37	.36	.033	6	18	.25	91	.07	2	.78	.01	.04	1
12400E 10300N	1	15	4	48	.1	15	5	181	1.40	2	5	ND	1	36	1	2	2	51	.12	.055	8	22	.40	84	.10	2	1.22	.01	.03	1
12400E 10400N	1	7	4	21	.3	6	2	90	.67	2	5	ND	1	34	1	2	2	32	.30	.028	6	13	.16	73	.07	2	.66	.01	.03	1
12400E 10450N	1	17	5	37	.8	7	3	156	1.02	2	5	ND	1	40	1	2	2	36	.37	.048	6	15	.25	88	.06	5	.73	.01	.04	1
12400E 10500N	1	18	5	41	.2	15	5	191	1.68	2	5	ND	1	37	1	2	2	57	.12	.081	7	22	.44	79	.09	2	1.29	.01	.04	1
12400E 10600N	1	11	4	27	.2	7	3	94	1.21	2	5	ND	1	30	1	2	2	43	.24	.031	8	16	.34	67	.06	2	.71	.01	.03	1
12400E 10650N	1	9	3	24	.1	5	2	109	.82	2	5	ND	1	36	1	2	4	37	.32	.017	7	14	.18	68	.10	2	.69	.01	.03	1
12400E 10700N	1	8	8	30	.2	7	2	196	.83	2	5	ND	1	31	1	2	2	37	.32	.025	7	15	.15	62	.07	2	.61	.01	.03	1
12400E 10750N	1	22	3	35	.1	12	4	195	1.61	3	5	ND	1	34	1	2	2	51	.35	.053	6	21	.22	101	.07	2	.96	.01	.03	1
12400E 10800N	1	25	3	47	.2	11	5	153	1.79	2	5	ND	1	34	1	2	2	59	.34	.053	6	25	.28	70	.09	3	1.60	.01	.03	1
12400E 10850N	1	21	7	45	.2	16	6	173	2.16	2	5	ND	1	30	1	2	2	66	.31	.070	5	26	.28	58	.07	4	1.09	.01	.03	1
12400E 10900N	1	12	3	40	.1	10	4	158	1.44	2	5	ND	1	35	1	2	2	56	.34	.043	7	18	.26	68	.10	4	.86	.01	.04	1
12400E 10950N	1	27	9	56	.2	16	6	218	1.91	4	5	ND	1	37	1	2	4	59	.38	.063	7	26	.41	101	.08	1	1.12	.01	.06	2
12800E 10050N	1	10	4	35	.1	10	2	133	1.07	2	5	ND	1	38	1	2	2	39	.32	.028	8	16	.19	127	.06	2	.72	.01	.02	1
12800E 10100N	1	19	5	61	.1	15	6	278	1.91	2	5	ND	1	31	1	2	2	59	.33	.071	7	21	.27	94	.09	3	1.26	.01	.04	1
12800E 10150N	1	16	6	42	.1	30	5	210	1.48	2	5	ND	1	35	1	2	2	52	.38	.037	7	23	.42	85	.10	3	.98	.01	.04	2
12800E 10200N	1	28	2	48	.1	58	10	287	2.61	3	5	ND	1	33	1	2	2	74	.39	.081	6	40	.62	84	.11	2	1.71	.01	.05	1
12800E 10500N	1	18	7	42	.1	13	5	175	2.00	4	5	ND	1	30	1	2	3	68	.31	.094	6	24	.29	85	.09	2	1.63	.01	.03	1
12800E 10550N	1	13	6	28	.3	13	3	106	.87	2	5	ND	1	37	1	2	2	39	.32	.026	7	20	.19	96	.08	2	.79	.01	.03	1
12800E 10600N	1	11	7	27	.2	12	4	143	1.20	2	5	ND	1	39	1	2	6	49	.12	.036	7	17	.30	77	.11	2	.89	.01	.03	2
12800E 10650N	1	13	7	29	.3	11	3	111	.89	2	5	ND	1	37	1	2	3	40	.33	.026	8	18	.19	110	.07	3	.91	.01	.04	1
12800E 10700N	1	21	6	33	1.6	10	3	135	.79	2	5	ND	1	42	1	2	2	19	.34	.160	6	15	.16	120	.01	4	.73	.01	.05	1
12800E 10750N	1	15	4	21	.3	14	3	107	1.11	2	5	ND	1	33	1	2	4	46	.31	.040	6	21	.24	87	.07	2	.87	.01	.03	1
12800E 10800N	1	20	2	35	.1	16	5	176	1.76	3	5	ND	1	34	1	2	2	66	.35	.032	7	24	.40	86	.09	4	1.10	.01	.03	1
12800E 10850N	1	16	7	40	.1	10	5	153	3.09	5	5	ND	2	27	1	2	3	84	.26	.090	5	25	.27	55	.10	2	1.08	.01	.04	2
12800E 10900N	1	16	7	45	.2	11	6	166	3.01	7	5	ND	1	26	1	2	2	82	.26	.109	5	28	.32	50	.09	3	1.22	.01	.04	1
12800E 10950N	1	18	9	47	.2	15	5	234	2.88	5	5	ND	1	25	1	2	2	77	.26	.185	6	26	.31	64	.09	2	1.65	.01	.04	1
12800E 11000N	1	27	5	60	.1	23	9	295	2.76	9	5	ND	2	26	1	3	4	76	.30	.138	6	30	.39	64	.09	4	1.69	.01	.04	1
12800E 11050N	1	32	13	76	.2	27	9	608	3.02	7	5	ND	3	26	1	2	2	86	.29	.127	6	37	.43	96	.09	3	1.80	.01	.04	1
12800E 11100N	1	21	5	56	.1	18	6	213	2.90	6	5	ND	1	25	1	2	3	81	.29	.174	5	33	.32	73	.08	3	1.53	.01	.04	1
12800E 11150N	1	28	10	55	.1	13	7	477	3.08	5	5	ND	1	44	1	2	2	104	.48	.095	6	23	.40	84	.16	2	1.26	.01	.05	1
12800E 11200N	1	39	12	94	.1	16	9	535	4.23	6	5	ND	2	38	1	2	6	112	.43	.253	6	31	.47	83	.13	2	2.52	.01	.05	1
40000E 40000N	1	74	11	74	.5	31	16	620	3.13	8	5	ND	1	57	1	6	2	80	.72	.077	11	45	1.08	137	.07	3	2.30	.01	.09	1
40000E 40025N	1	62	8	63	.1	23	12	436	3.14	8	5	ND	1	52	1	2	2	83	.60	.077	7	40	.87	98	.10	2	1.61	.01	.07	1
40000E 40050N	1	59	6	66	.4	29	15	634	2.73	6	5	ND	1	47	1	2	3	68	.49	.067	9	50	.95	114	.07	2	1.90	.01	.07	1
STD C	19	63	44	132	7.0	70	31	1029	3.91	13	17	8	39	50	19	15	21	60	.45	.091	40	53	.87	180	.06	34	1.70	.06	.13	13

SAMPLE	No	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Hg	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mo	Ba	Ti	B	Al	Na	K	W
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	%	%	PPM	PPM	%	PPM	%	PPM	%	%	%	%	PPM
40600E 40100N	1	34	7	63	.1	16	9	482	2.28	5	5	ND	1	46	1	2	2	61	.49	.088	5	33	.67	98	.07	2	1.06	.01	.07	1
40600E 40125N	1	29	8	57	.1	14	6	270	1.95	5	5	ND	1	42	1	2	2	59	.53	.071	6	28	.44	93	.08	3	.77	.01	.07	1
40600E 40150N	1	61	6	64	.2	23	14	624	2.88	12	5	ND	2	44	1	2	2	70	.50	.096	6	42	.91	106	.09	4	1.28	.01	.09	1
40600E 40175N	1	43	4	68	.1	19	11	392	2.61	6	5	ND	1	41	1	2	2	69	.44	.082	5	39	.73	104	.09	3	1.17	.01	.08	1
40600E 40200N	1	40	5	68	.3	22	13	714	3.03	9	5	ND	1	39	1	2	2	76	.36	.072	6	42	.73	103	.09	2	1.30	.01	.07	1
40600E 40225N	1	23	6	57	.6	11	6	407	1.92	5	5	ND	2	36	1	2	3	63	.39	.064	5	25	.35	116	.08	3	.72	.01	.05	1
40600E 40225N DUP.	1	37	6	56	.2	20	9	236	3.13	6	5	ND	4	34	1	2	2	77	.34	.064	7	40	.73	64	.10	2	1.58	.01	.08	1
40600E 40250N	1	17	2	61	.1	13	5	331	1.69	2	5	ND	1	36	1	2	2	54	.37	.050	7	25	.44	71	.09	3	.94	.01	.06	1
40600E 40275N	1	13	6	57	.1	9	4	325	1.00	4	5	ND	1	30	1	2	3	36	.31	.036	6	15	.19	61	.05	3	.45	.01	.04	1
40600E 40300N	1	26	4	63	.2	13	7	409	1.81	4	5	ND	1	31	1	2	2	58	.34	.062	6	25	.42	84	.08	3	.78	.01	.05	1
40600E 40325N	1	49	10	82	.1	27	13	322	3.30	10	5	ND	2	37	1	2	2	79	.44	.109	8	44	.88	73	.10	5	1.90	.01	.06	1
40600E 40350N	1	29	6	71	.1	15	8	262	2.29	7	5	ND	1	33	1	2	2	64	.34	.092	7	30	.51	71	.07	4	1.05	.01	.05	1
40600E 40400N	1	33	7	69	.1	16	9	376	2.71	4	5	ND	1	38	1	2	3	77	.37	.056	6	33	.56	123	.08	3	1.12	.01	.06	1
40600E 40425N	1	21	4	49	.1	15	6	206	1.87	2	5	ND	1	34	1	2	3	58	.34	.064	9	27	.40	77	.08	2	.98	.01	.05	1
40600E 40475N	1	13	3	55	.1	7	4	388	1.21	2	5	ND	1	36	1	2	3	46	.36	.031	7	18	.22	93	.08	2	.64	.01	.03	1
40600E 40500N	1	19	3	46	.1	8	5	277	1.45	3	5	ND	2	35	1	2	2	49	.36	.044	7	20	.31	76	.08	3	.75	.01	.05	1
40600E 40525N	1	27	3	54	.1	15	7	223	2.20	7	5	ND	1	35	1	2	3	65	.40	.085	7	30	.49	98	.08	3	.96	.01	.05	1
40600E 40550N	1	24	6	51	.1	15	7	187	2.55	7	5	ND	1	37	1	2	2	70	.42	.089	7	31	.48	83	.08	2	1.02	.01	.05	1
40600E 40600N	1	59	5	48	.3	17	8	505	1.85	5	5	ND	1	48	1	2	2	55	.51	.056	8	31	.54	118	.06	3	1.30	.01	.06	1
40600E 40625N	1	54	7	56	.3	17	8	221	2.21	4	5	ND	1	33	1	2	2	62	.38	.056	9	28	.46	60	.07	8	1.31	.01	.04	1
40600E 40650N	1	120	12	86	1.1	39	25	1184	4.57	15	5	ND	2	51	1	4	2	102	.55	.099	11	56	.99	189	.08	2	3.08	.01	.12	1
40600E 40675N	2	150	14	152	1.2	49	29	2502	5.68	12	5	ND	1	78	1	2	2	110	.91	.168	12	58	1.04	362	.04	7	3.83	.01	.18	1
40600E 40725N	1	37	2	48	.4	14	8	264	1.99	7	5	ND	1	39	1	2	2	63	.40	.060	8	27	.52	78	.07	2	1.21	.01	.05	1
40600E 40750N	1	35	10	53	.9	8	5	131	1.08	6	5	ND	2	33	1	3	2	32	.32	.061	7	17	.23	84	.04	21	.73	.01	.05	1
40600E 40775N	1	16	2	32	.1	8	4	225	1.26	2	5	ND	1	29	1	2	2	36	.27	.035	5	15	.36	49	.05	12	.69	.01	.05	1
40600E 40825N	1	30	2	41	.2	9	6	260	1.49	2	5	ND	1	32	1	2	2	37	.31	.079	5	20	.28	73	.04	10	.95	.01	.03	1
40600E 40850N	1	20	7	35	.5	9	5	164	1.22	4	5	ND	2	33	1	2	2	43	.32	.033	7	23	.35	70	.07	4	.80	.01	.04	2
40600E 40875N	1	28	2	61	.2	16	10	276	2.74	9	5	ND	1	40	1	2	3	82	.42	.074	6	30	.64	70	.08	8	1.09	.01	.05	1
40600E 40900N	1	25	3	46	.1	13	9	214	1.96	4	5	ND	1	42	1	2	2	67	.42	.051	5	30	.61	88	.10	3	1.11	.01	.05	1
40600E 40925N	1	14	5	31	.2	8	4	218	1.20	5	5	ND	1	35	1	2	2	46	.35	.044	7	18	.25	64	.10	4	.78	.01	.03	2
40600E 40975N	1	6	6	23	.1	2	2	173	.58	2	5	ND	1	37	1	2	2	32	.34	.018	7	10	.11	50	.09	2	.55	.01	.03	1
40600E 41000E	1	49	7	75	.1	20	14	617	3.58	12	5	ND	1	33	1	2	2	84	.40	.136	5	30	.66	82	.09	7	1.28	.01	.05	1
STD C	19	62	42	132	7.2	71	31	1030	3.92	43	17	7	60	51	19	15	18	61	.46	.090	40	54	.88	179	.07	36	1.81	.06	.13	12

LOCATION MAP

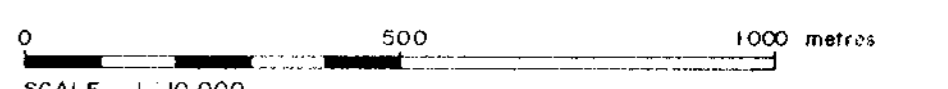


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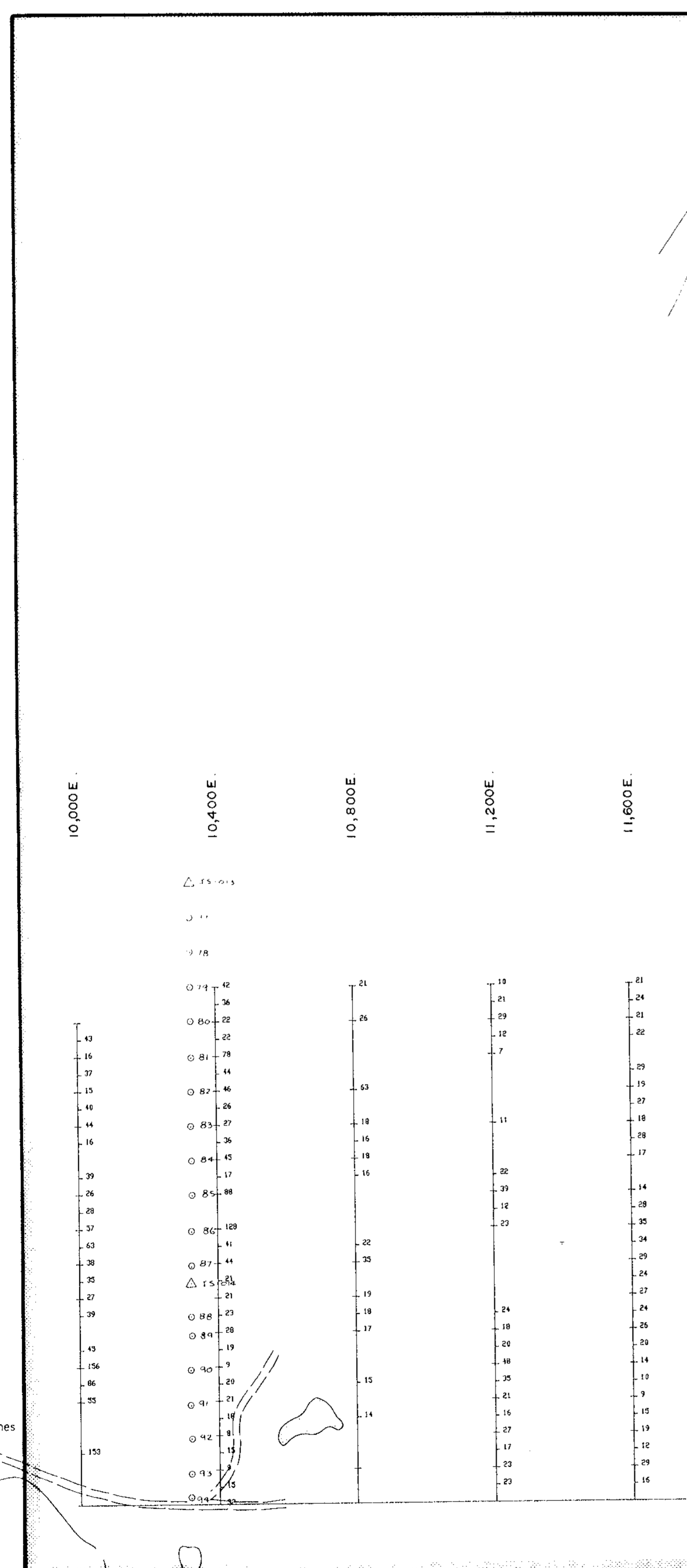
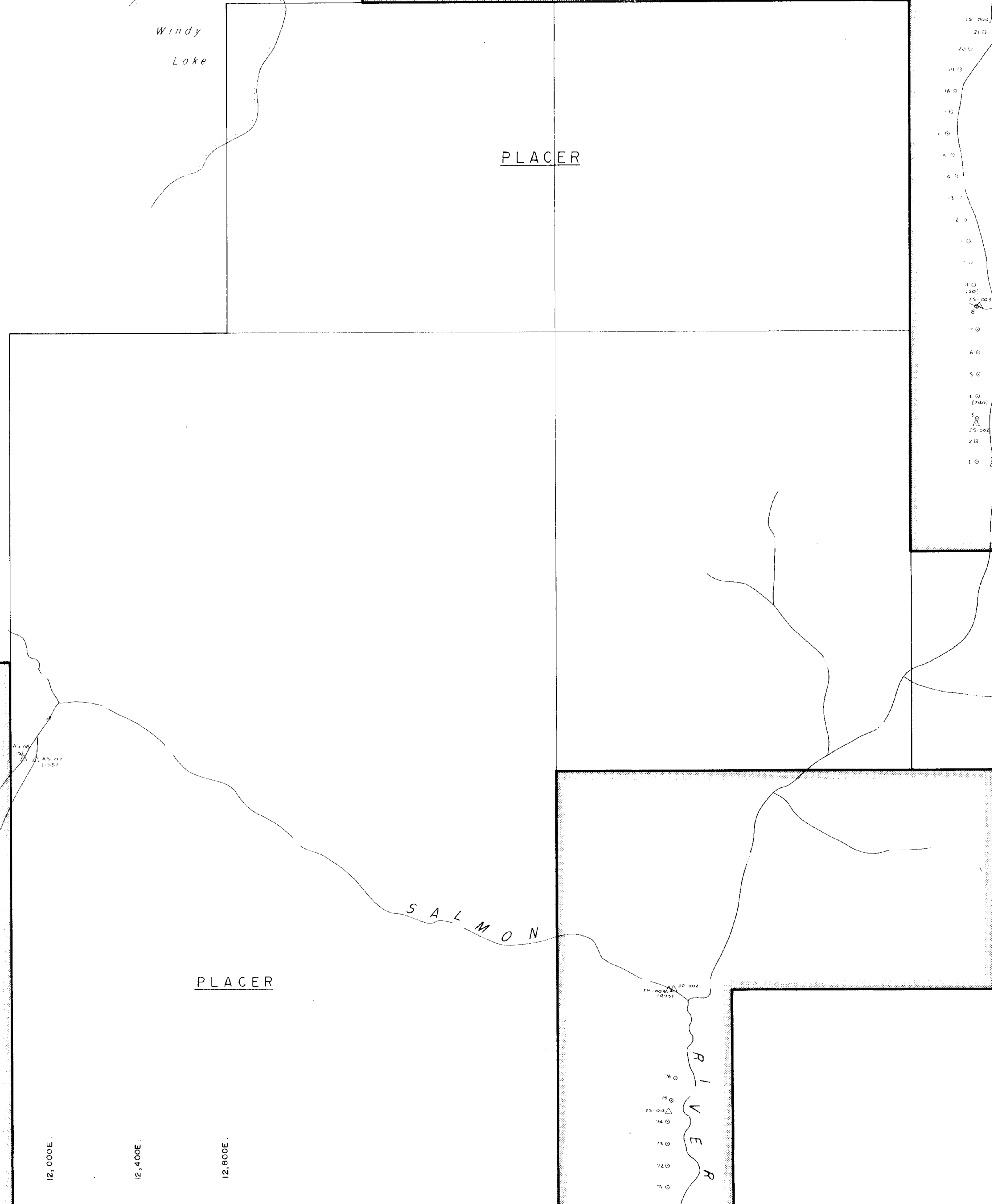
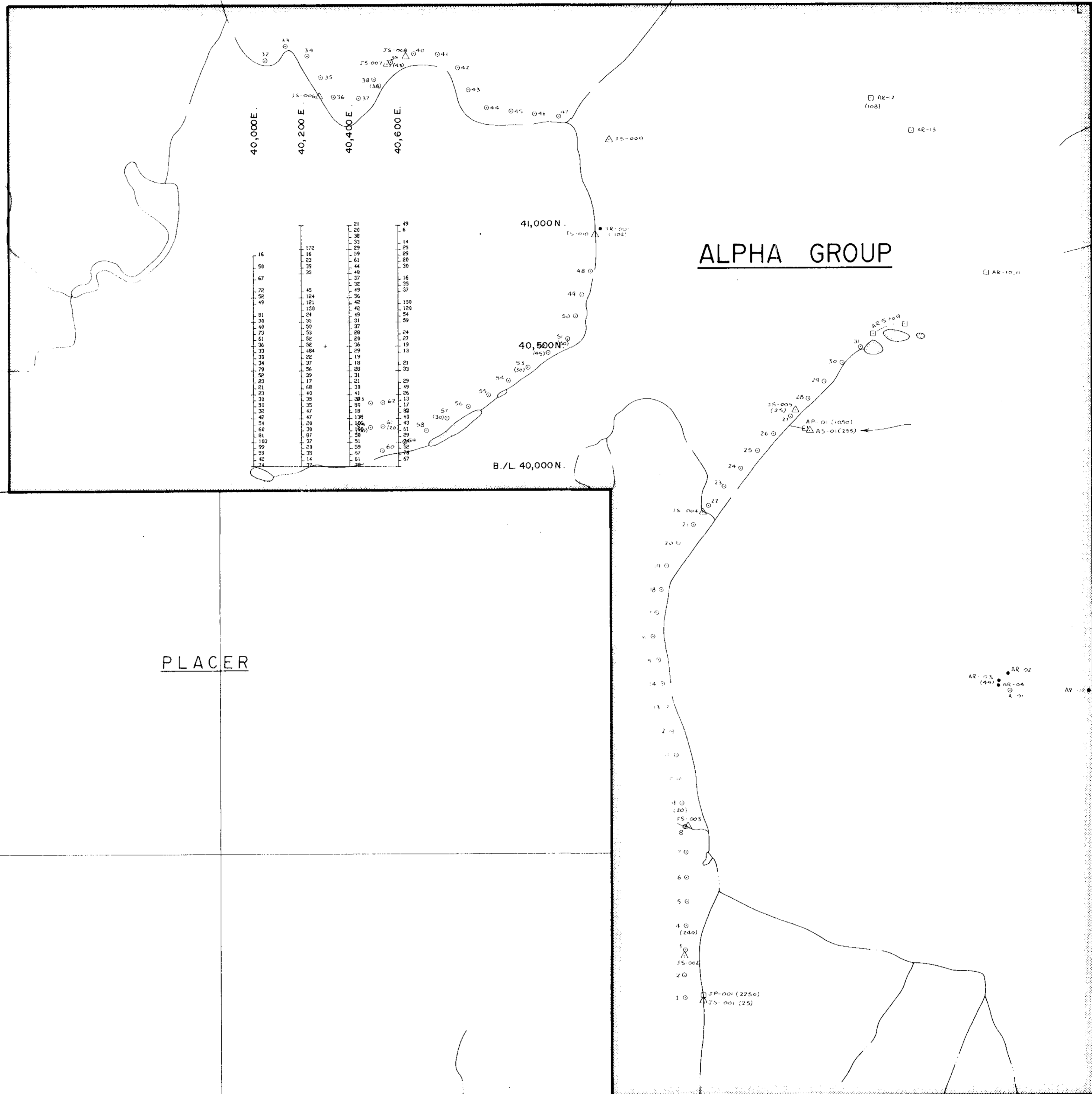
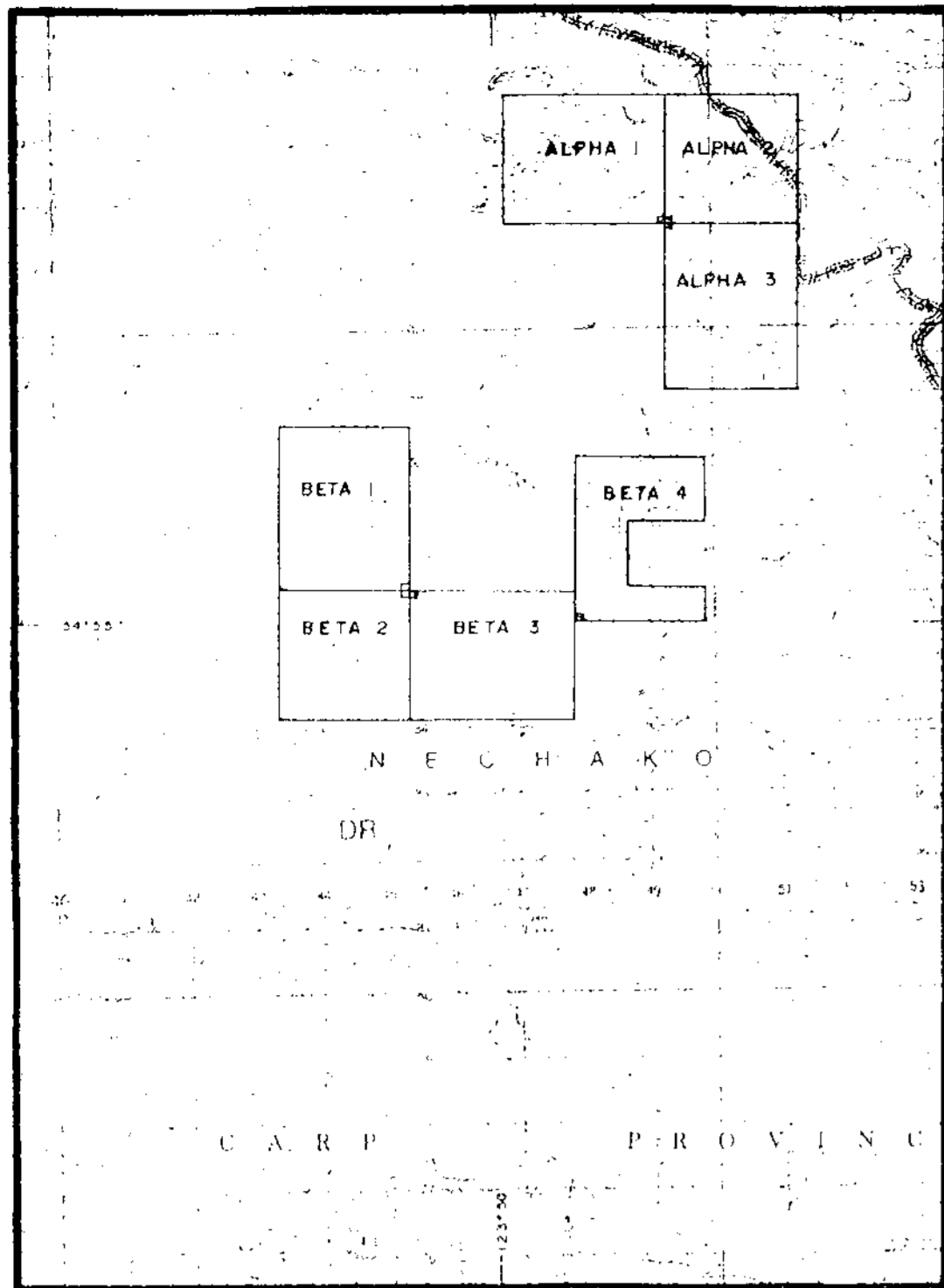
LEGEND

- AP-01, AP-02, AP-03 PAN CONCENTRATE SAMPLE LOCATION
- AS-01, AS-02, AS-03 SILT SAMPLE LOCATION
- 25 01 SOIL SAMPLE LOCATION
- AR-01, AR-02, AR-03 ROCK SAMPLE LOCATION
- (2250) GOLD VALUE IN PPB



REVISED	ALPHA AND BETA PROPERTY	
	SOIL GEOCHEM SURVEY Aut(ppb)	
PROJ. No. 280	SURVEY BY S.K.B.	DATE
N.S. 933/13	DRAWN BY J.J.P.	SCALE 1:50,000
DWG. No.	NORANDA EXPLORATION	
FIG. 3	OFFICE PRINCE GEORGE, B.C.	

LOCATION MAP



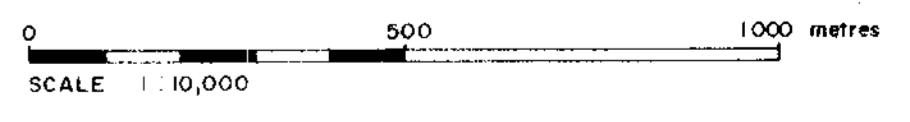
PROPERTY BOUNDARY

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,883

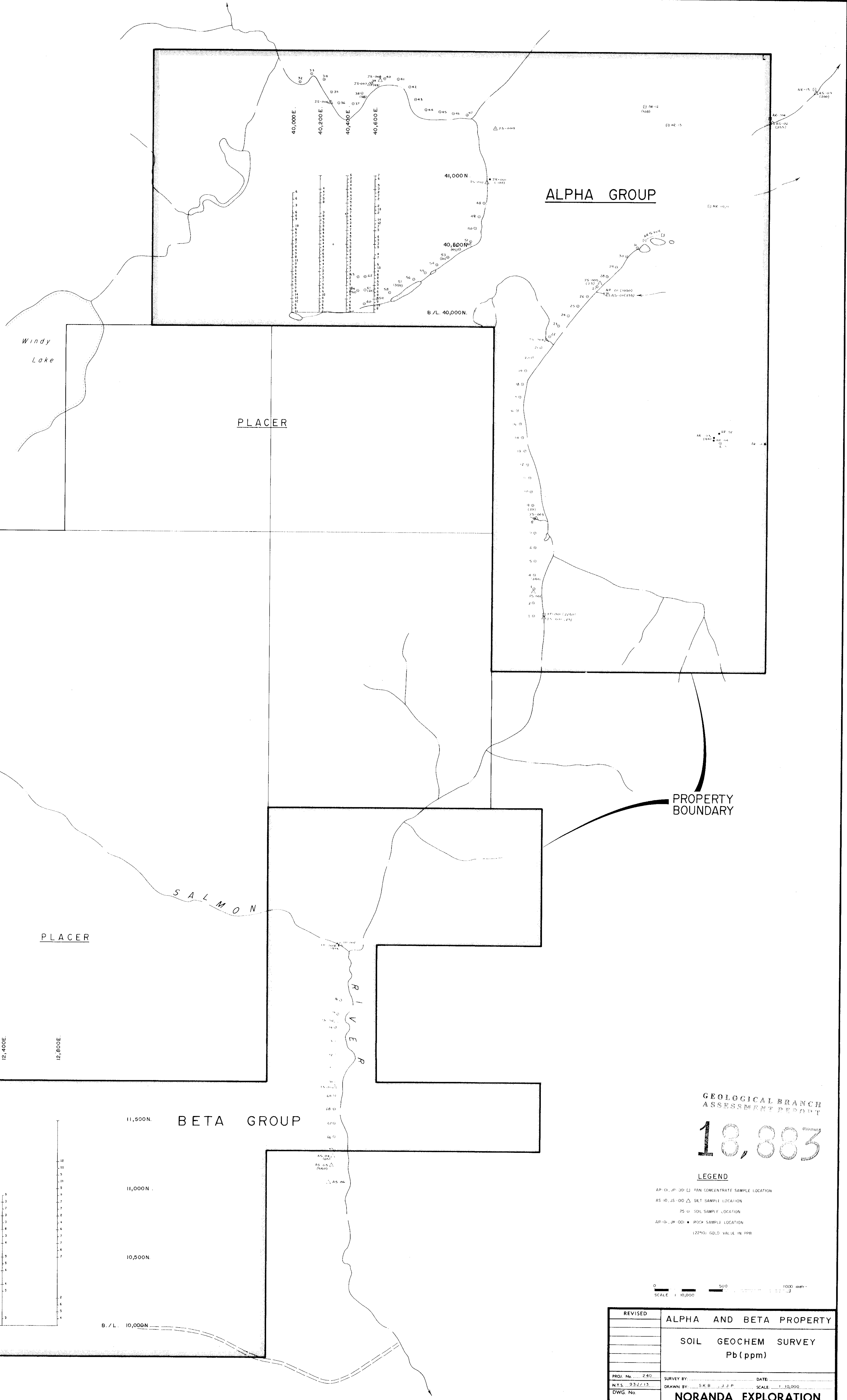
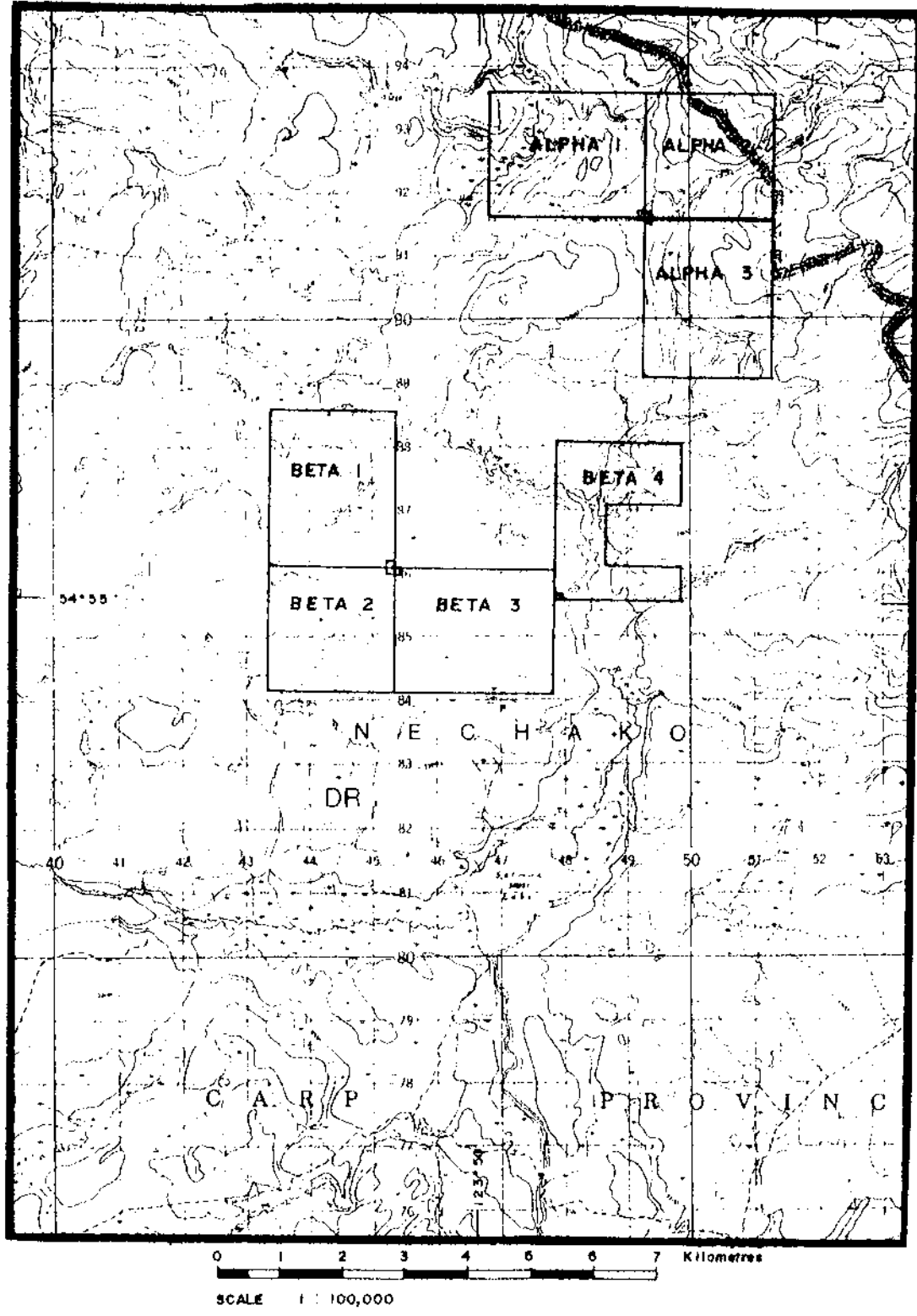
LEGEND

- AP-01, JP-001 □ PAN CONCENTRATE SAMPLE LOCATION
- AS-10, JS-001 △ SILT SAMPLE LOCATION
- 25 ○ SOIL SAMPLE LOCATION
- AR-01, JR-001 ● ROCK SAMPLE LOCATION
- (2250) GOLD VALUE IN PPB



REVISED	ALPHA AND BETA PROPERTY	
	SOIL GEOCHEM SURVEY	
	Cu (ppm)	
PROJ. No. 240	SURVEY BY: S.K.B. J.J.P.	DATE:
N.T.S. 333/13	DRAWN BY: S.K.B. J.J.P.	SCALE: 1:10,000
DWG. No.	NORANDA EXPLORATION	
FIG. 4	OFFICE: PRINCE GEORGE, B.C.	

LOCATION MAP



PROPERTY BOUNDARY

GEOLOGICAL BRANCH
ASSESSMENT REPORT

18,883

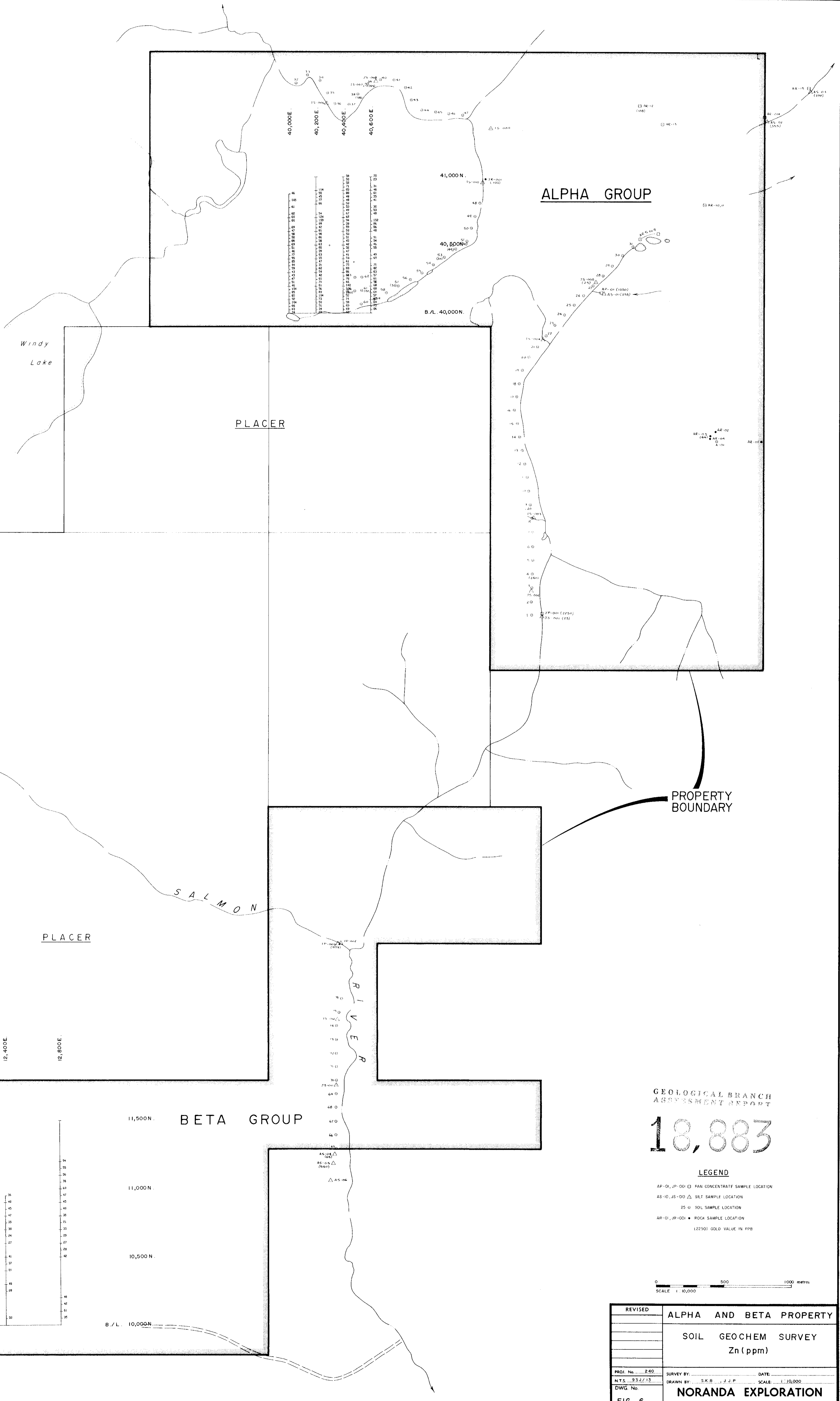
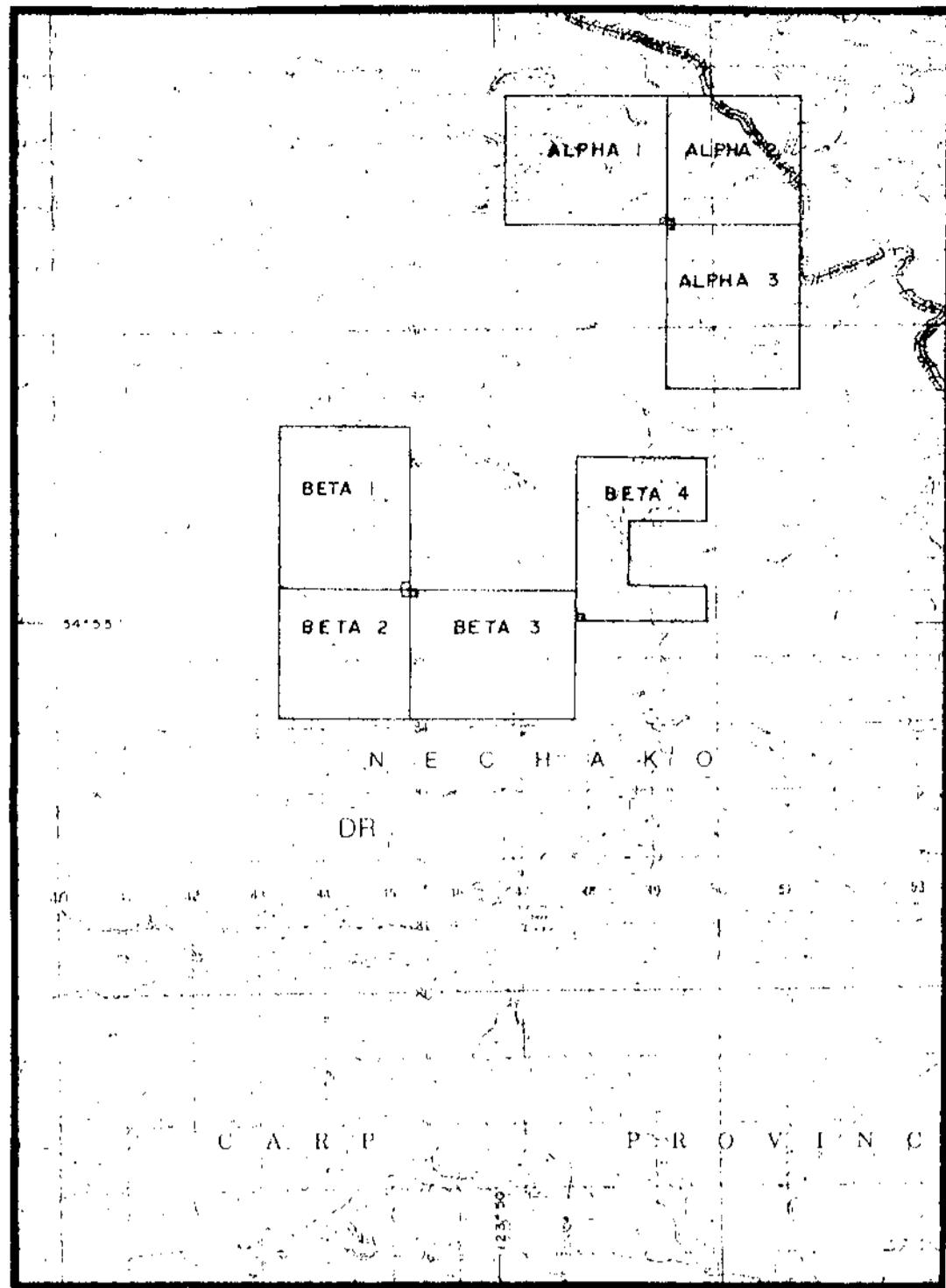
LEGEND

- AP-01, AP-30 □ PAN CONCENTRATE SAMPLE LOCATION
- AS-10, AS-00 △ SLET SAMPLE LOCATION
- TS-01 ○ SOIL SAMPLE LOCATION
- AR-10, AR-00 ● ROCK SAMPLE LOCATION
- (2250) GOLD VALUE IN PPB

SCALE 1:10,000

REVISED	ALPHA AND BETA PROPERTY		
	SOIL GEOCHEM SURVEY		
	Pb (ppm)		
PROJ. No. 240	SURVEY BY: SKB, J.J.P.	DATE:	SCALE: 1:10,000
NTS: 934.13	DRAWN BY:		
DWG No.	NORANDA EXPLORATION		
FIG. 5	OFFICE: PRINCE GEORGE, B.C.		

LOCATION MAP



ALPHA GROUP

PLACER

PLACER

SALMON

RIVER

BETA GROUP

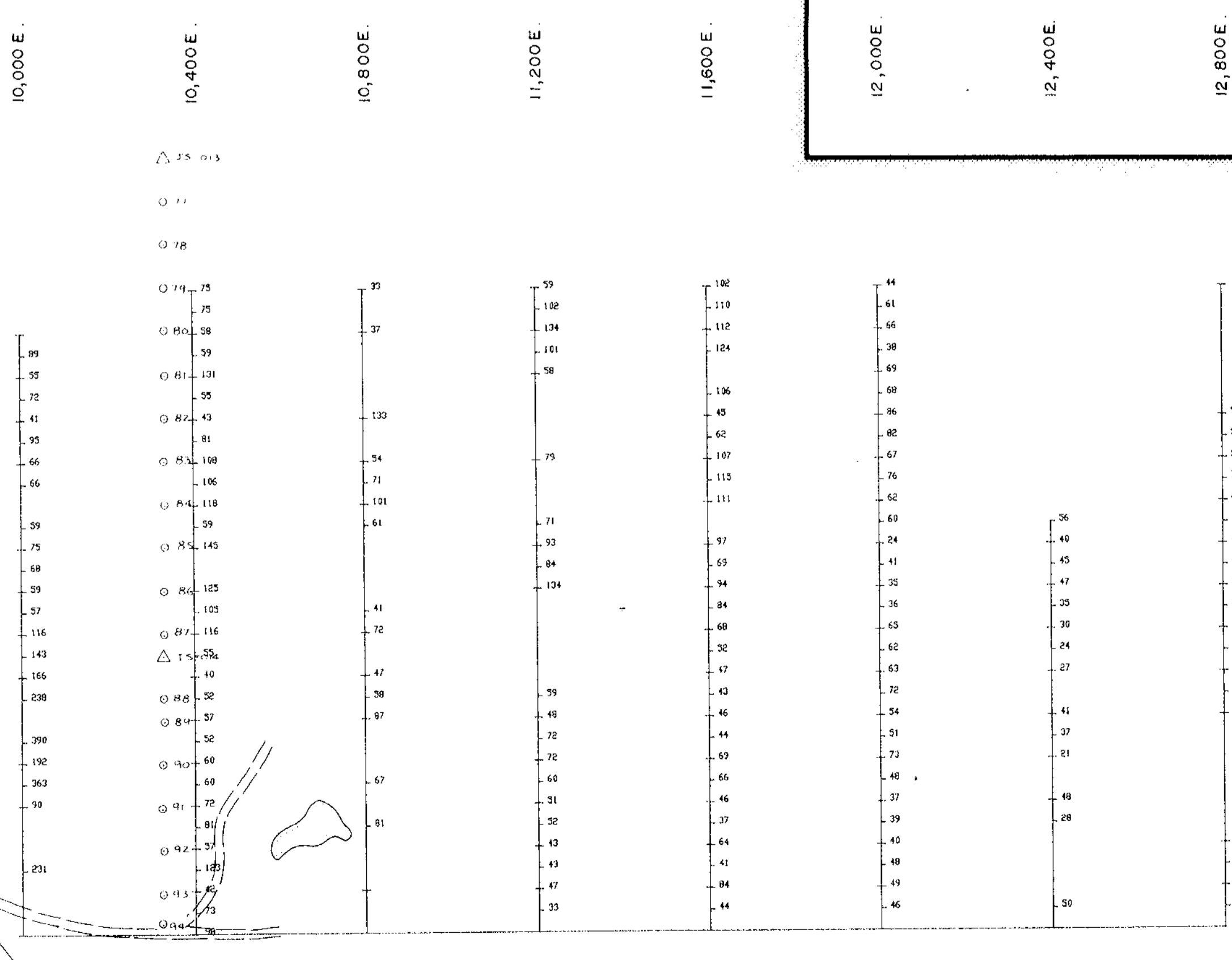
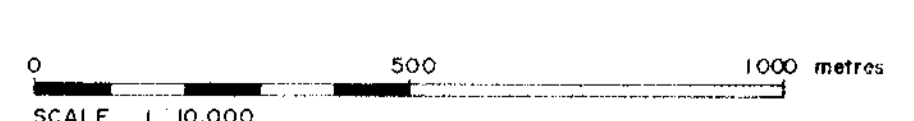
PROPERTY BOUNDARY

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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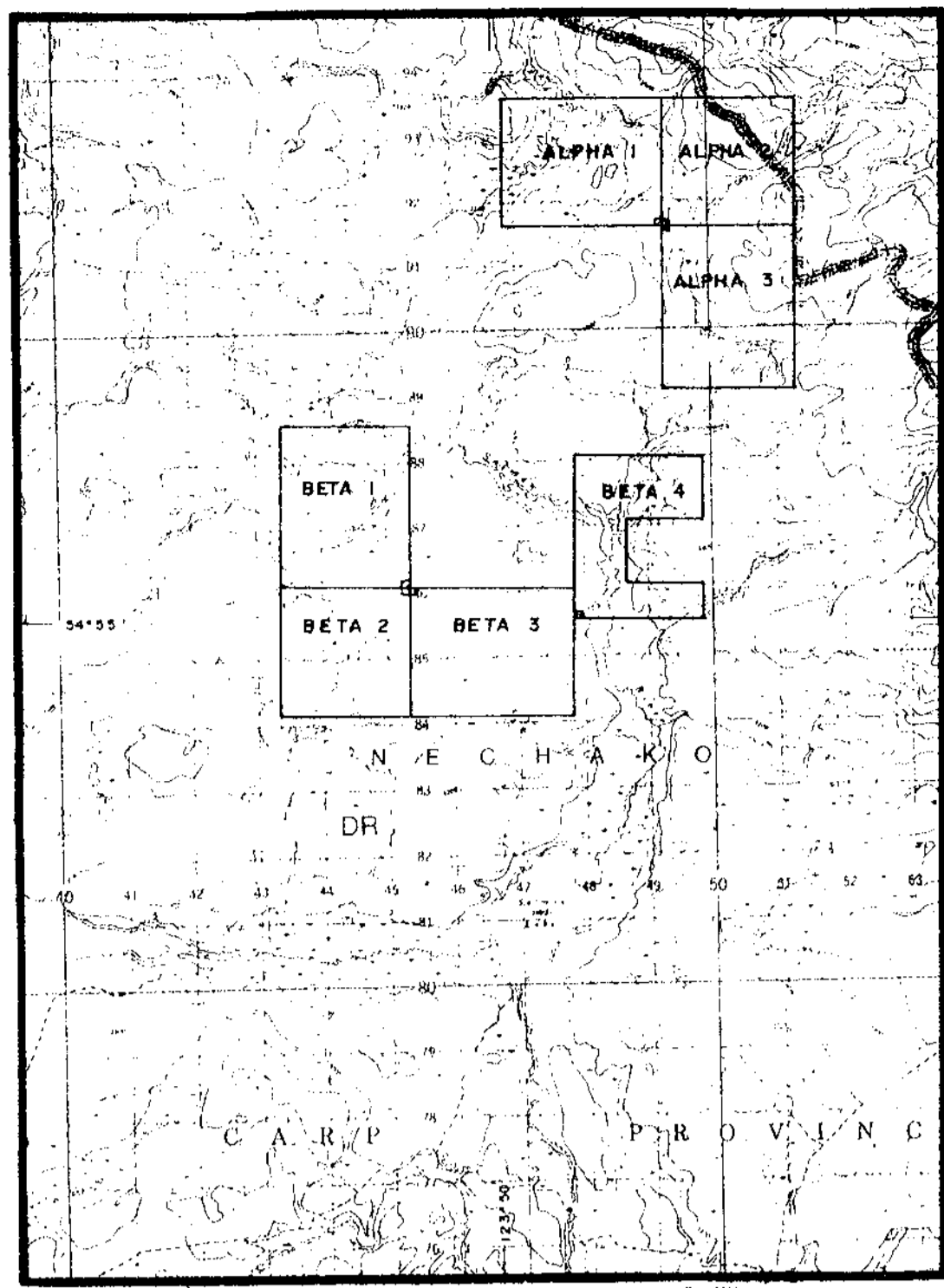
LEGEND

- AP-01, AP-02, AP-03 PAN CONCENTRATE SAMPLE LOCATION
- AS-10, AS-15, AS-20 SILT SAMPLE LOCATION
- 25 SILT SAMPLE LOCATION
- AR-01, AR-02, AR-03 ROCK SAMPLE LOCATION
- (2250) GOLD VALUE IN PPM

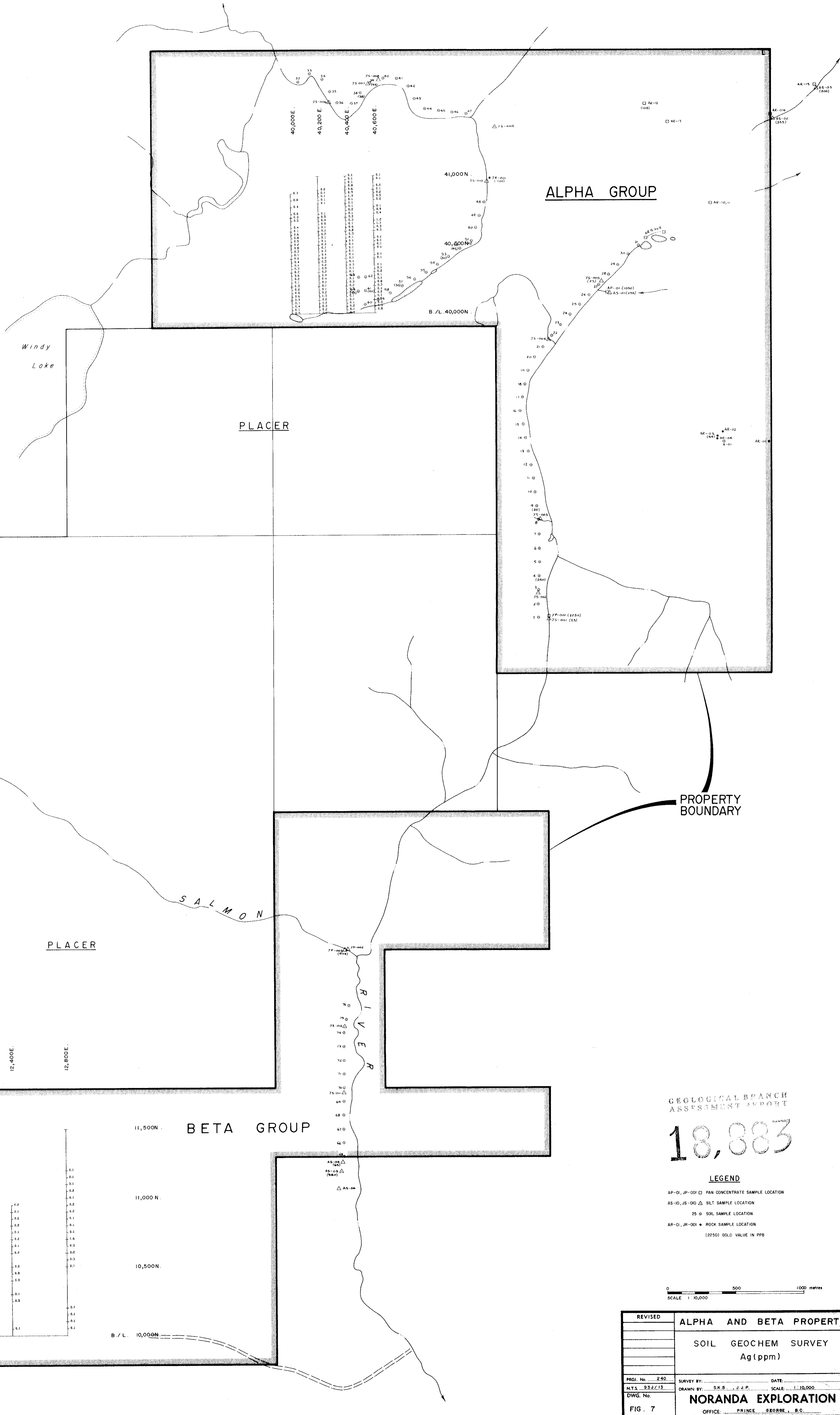


REVISED	ALPHA AND BETA PROPERTY	
	SOIL GEOCHEM SURVEY	
	Zn (ppm)	
PROJ. No. 240	SURVEY BY: S.K.B., J.J.P.	DATE:
N.T.S. 23.1/13	DRAWN BY: S.K.B., J.J.P.	SCALE: 1:10,000
DWG. No.	NORANDA EXPLORATION	
FIG. 6	OFFICE: PRINCE GEORGE, B.C.	

LOCATION MAP



SCALE 1:100,000



ALPHA GROUP

PLACER

PLACER

BETA GROUP

PROPERTY BOUNDARY

GEOLOGICAL BRANCH
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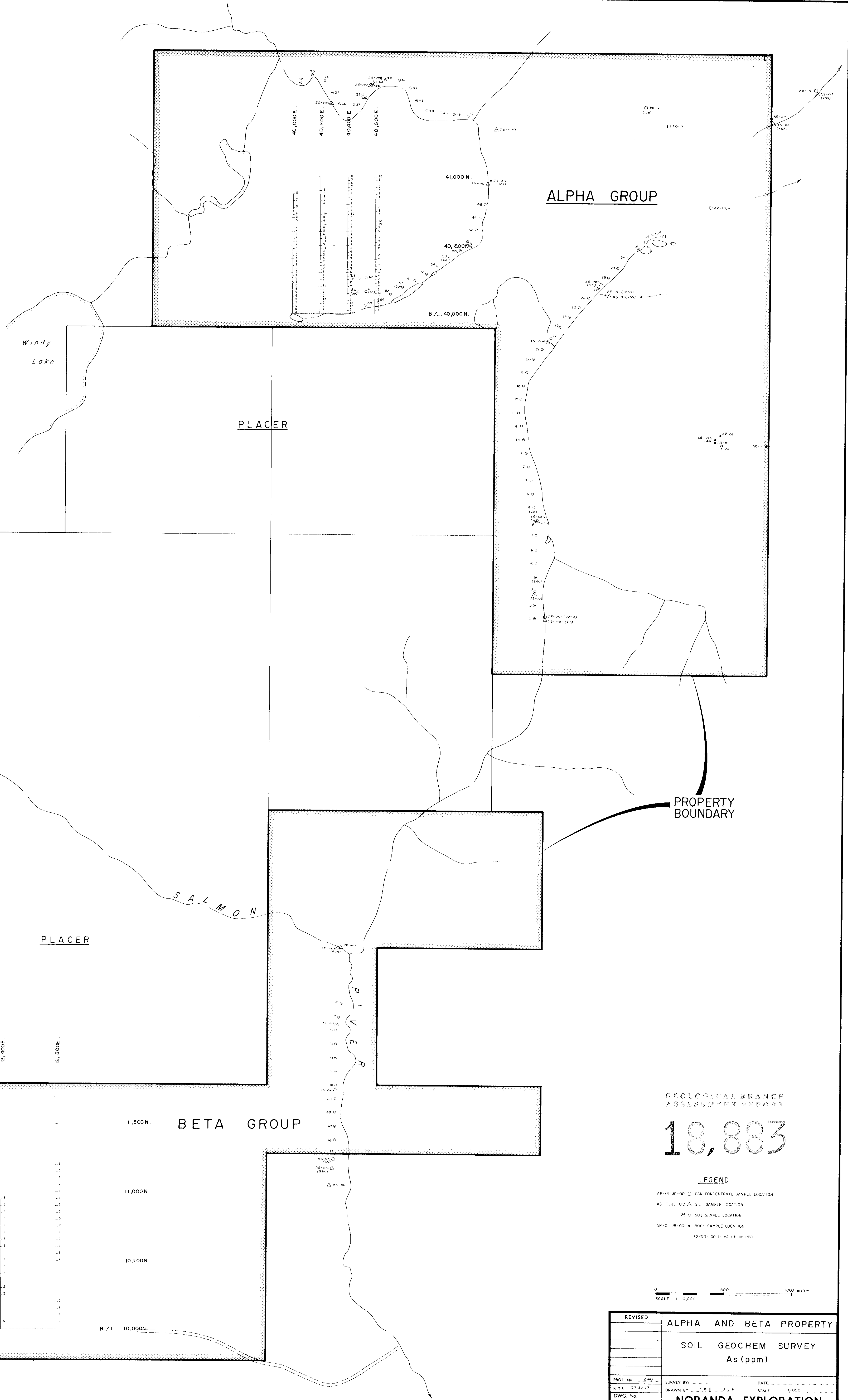
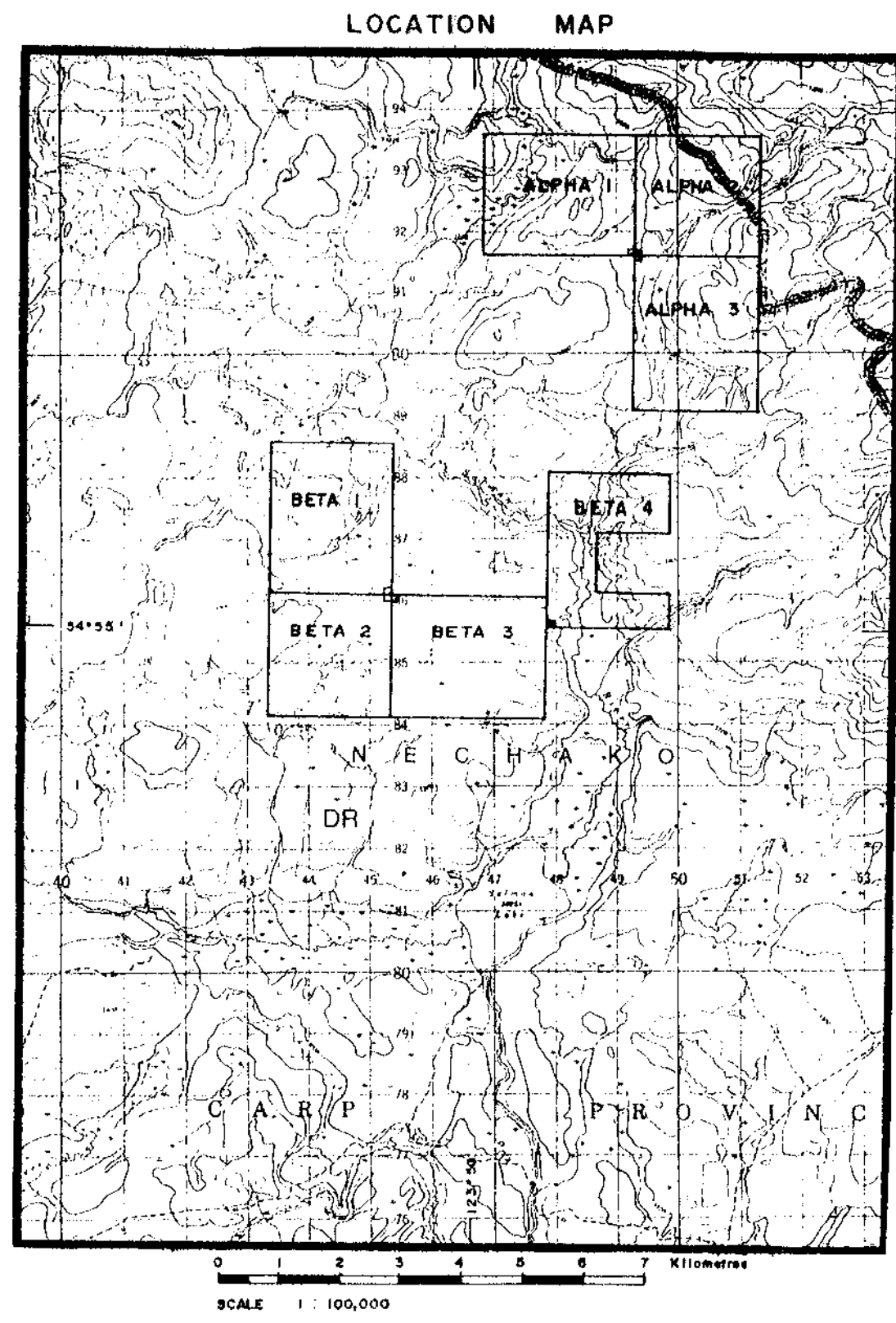
LEGEND

- AP-01, JP-001 □ PAN CONCENTRATE SAMPLE LOCATION
- AS-10, JS-010 △ SILT SAMPLE LOCATION
- 25 ○ SOIL SAMPLE LOCATION
- AR-01, JR-001 ◆ ROCK SAMPLE LOCATION
- (2250) GOLD VALUE IN PPB

SCALE 1:10,000

REVISED	ALPHA AND BETA PROPERTY	
	SOIL GEOCHEM SURVEY	
	Ag (ppm)	
PROJ. No. 240	SURVEY BY: S.K.B. / J.J.P.	DATE:
INTS. 93J/13	DRAWN BY: S.K.B. / J.J.P.	SCALE: 1:10,000
DWG. No.	NORANDA EXPLORATION	
FIG. 7	OFFICE: PRINCE GEORGE, B.C.	

Fort St. James

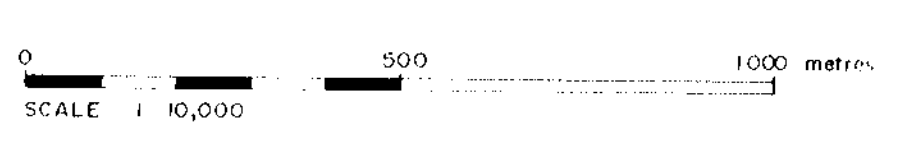


GEOLOGICAL BRANCH
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18,883

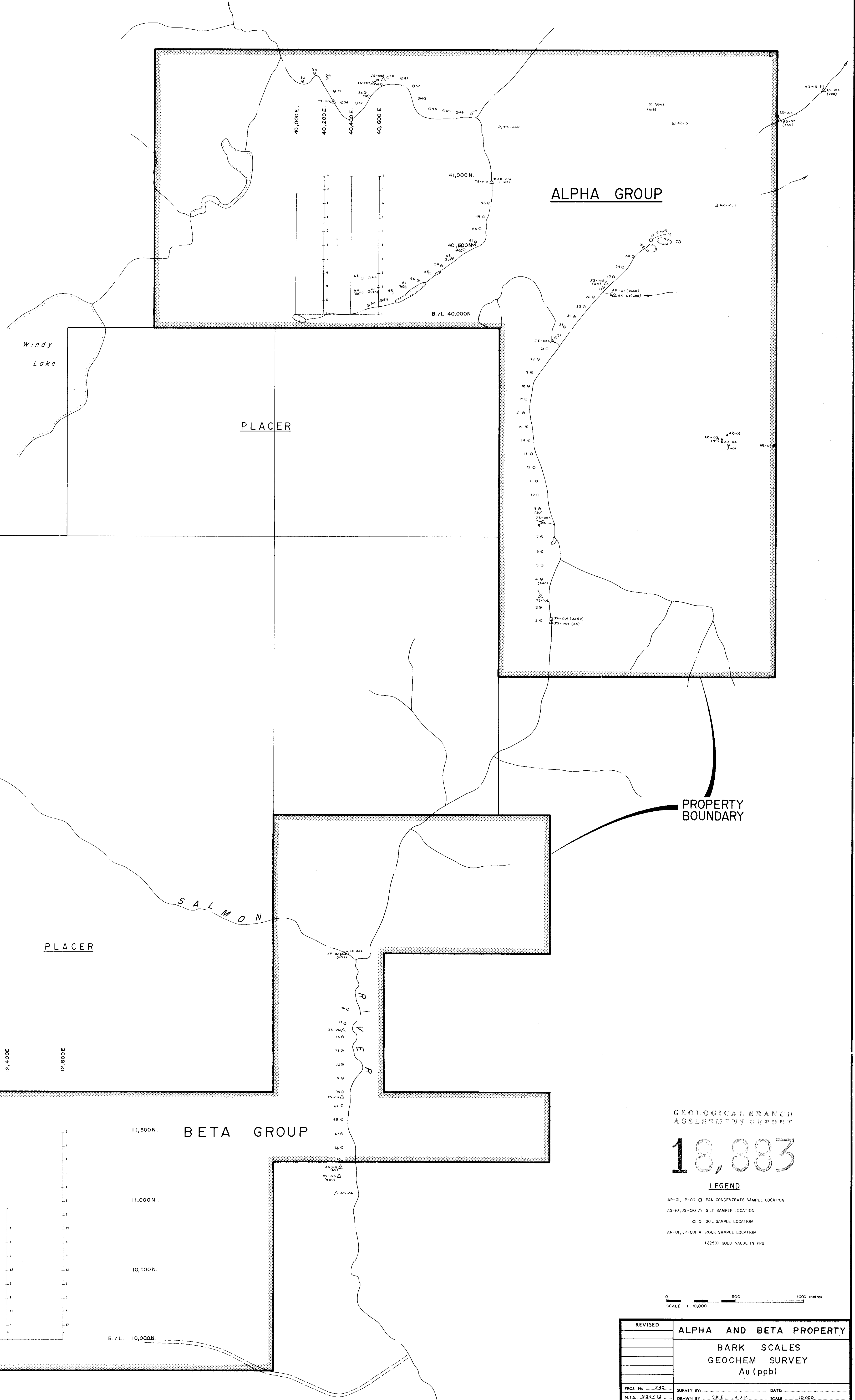
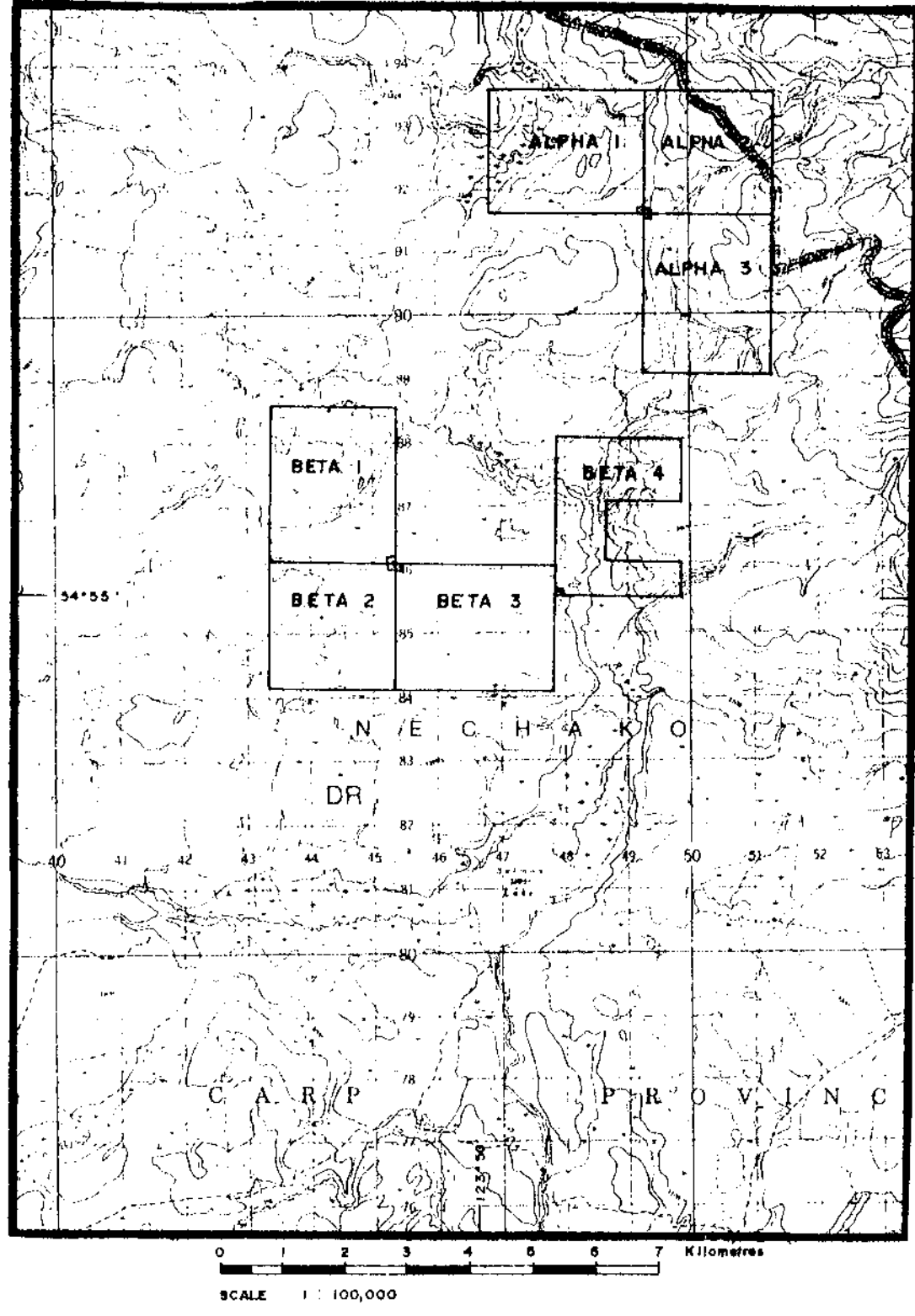
LEGEND

- AP-01, AP-02 (□) PAN CONCENTRATE SAMPLE LOCATION
- AS-10, AS-15 (△) SKT SAMPLE LOCATION
- 25 (○) SOIL SAMPLE LOCATION
- AR-01, AR-02 (●) ROCK SAMPLE LOCATION
- (2750) GOLD VALUE IN PPB



REVISED	ALPHA AND BETA PROPERTY	
	SOIL GEOCHEM SURVEY	
	As (ppm)	
PROJ. No. 240	SURVEY BY: S.K.B., J.J.P.	DATE: 11/10/90
N.T.S. 231/13	DRAWN BY: S.K.B.	SCALE: 1:40,000
DWG No.	NORANDA EXPLORATION	
FIG. 8	OFFICE: PRINCE GEORGE, B.C.	

LOCATION MAP



ALPHA GROUP

PLACER

PLACER

BETA GROUP

PROPERTY BOUNDARY

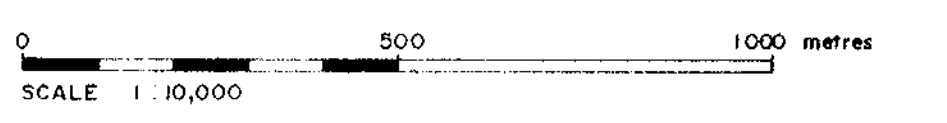
GEOLOGICAL BRANCH ASSESSMENT REPORT

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LEGEND

- AP-01, JP-001, 02, 03 PAM CONCENTRATE SAMPLE LOCATION
- AS-10, JS-100, 101, 102 SILT SAMPLE LOCATION
- 25 0 SOIL SAMPLE LOCATION
- AR-01, JR-001, 002 ROCK SAMPLE LOCATION

(2250) GOLD VALUE IN PPB



REVISED	ALPHA AND BETA PROPERTY	
	BARK SCALES	
	GEOCHEM SURVEY	
	Au (ppb)	
PROJ. No. 240	SURVEY BY: S.K.B. J.J.P.	DATE: 10/00
N.T.S. 93.3/13	DRAWN BY: S.K.B. J.J.P.	SCALE: 1:10,000
DWG. No.	NORANDA EXPLORATION	
FIG. 9	OFFICE: PRINCE GEORGE, B.C.	