

ASSESSMENT REPORT
ON THE 1990
GEOCHEMICAL SURVEY

ON
THE LIP # 1 MINERAL CLAIM
RECORD NUMBER 11040

RAINBOW CREEK, MT. MILLIGAN AREA
OMINECA MINING DIVISION, B. C.

55 ° 05 ' , 124 ° 01 '

NTS 93N/1E

FOR

BP RESOURCES CANADA LIMITED

MINING DIVISION

55 UNIVERSITY AVENUE, 18TH FLOOR

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OPERATOR: BP RESOURCES CANADA LIMITED

DATE SUBMITTED: 1990

FIELD WORK DONE: JUNE 14-29, 1990

REPORT BY: D. L. COOKE Ph.D., P. ENG.
R. U. BRUASET B.Sc., F.G.A.C

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GEOLOGICAL BRANCH
ASSESSMENT REPORT

20,280

TABLE OF CONTENTS

	Page
1. INTRODUCTION	1 /
2. SUMMARY	3 /
3. DETAILED TECHNICAL DATA AND INTERPRETATION	4 /
3A. SOIL SAMPLING	4 /
3B. TREATMENT OF DATA	5 /
3C. SUMMARY OF DOT-PLOTS	6 /
3D. INTERPRETATION	9 /
3E. CONCLUSIONS	9 /
3F. REFERENCES	10 /
4. COST STATEMENT	11 /
5. STATEMENTS OF QUALIFICATIONS FOR:	
R. U. BRUASET	12 /
D. L. COOKE	13 /

LIST OF TABLES

1. SUMMARY OF ANOMALOUS GOLD IN SOILS ✓
2. GENERAL SUMMARY OF ANALYSIS WITH REFERENCE TO AVERAGE ABUNDANCE, OR RANGE, (LEVINSON, 1980). ✓

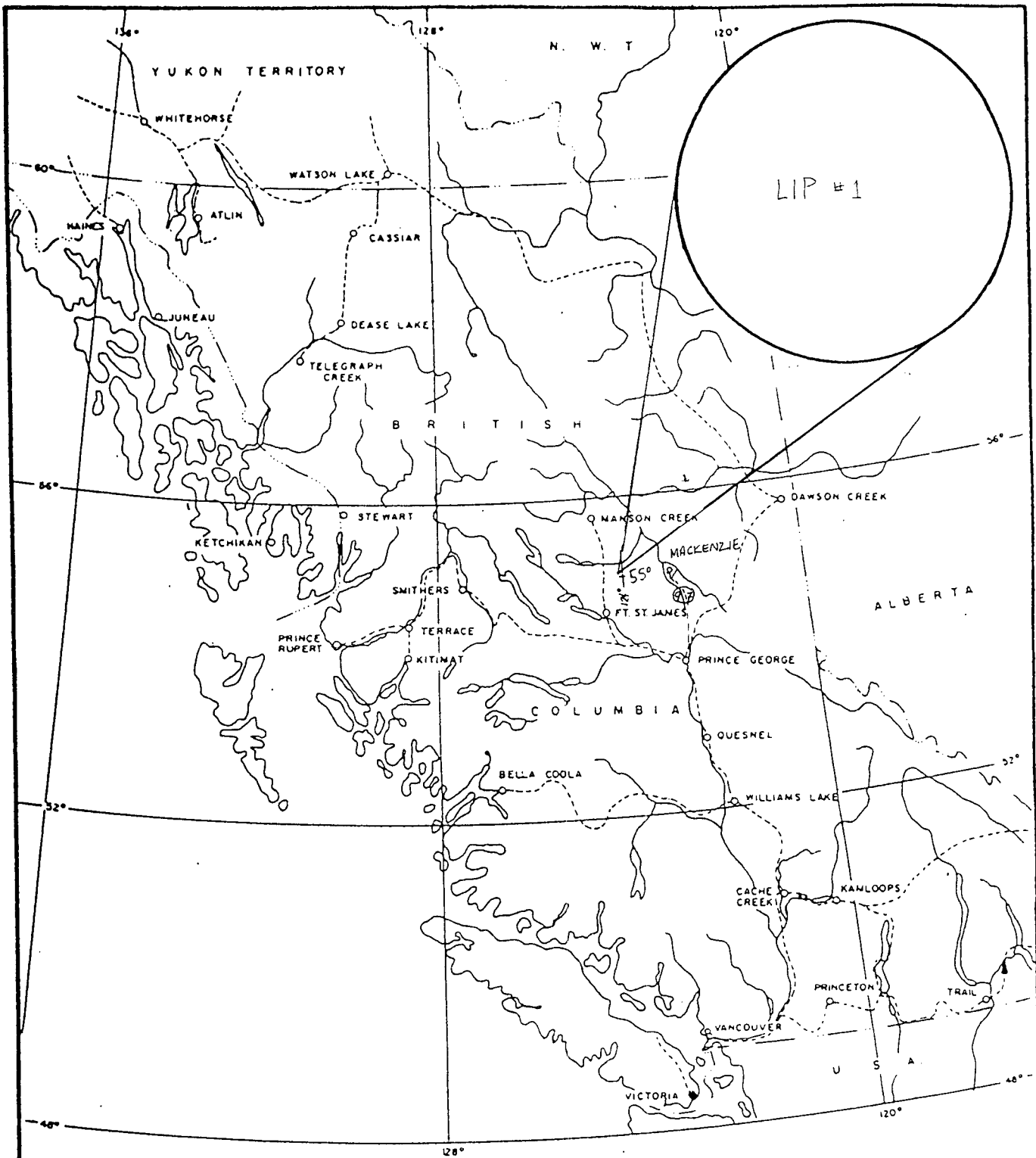
LIST OF FIGURES

PLATE 1	LOCATION MAP	1:7,930,000
PLATE 2	CLAIM MAP (INCL. AEROMAG. AND CU SOIL SUMMARIES)	1:50,000
PLATE 3	GRID PLAN: GOLD AND COPPER IN SOIL AND FLOAT (INCLUDING SOIL TYPE)	1:5000 ✓
DOT-PLOTS FOR GOLD AND ICP DETERMINED ELEMENTS:		1:10,000 ✓
PLATE 4	SAMPLE LOCATIONS ✓	
5	ALUMINUM	
6	ANTIMONY	
7	ARSENIC	
8	BARIUM	
9	BISMUTH	
10	BORON	
11	CADMIUM	
12	CALCIUM	
13	CHROMIUM	
14	COBALT	
15	COPPER	
15a	COPPER IN SOIL-ALL DATA	
16	GOLD (FA-NAA data)	
17	IRON	
18	LANTHANUM	
19	LEAD	
20	MAGNESIUM	

21	MANGANESE
22	MOLYBDENUM
23	NICKEL
24	PHOSPHORUS
25	POTASSIUM
26	SILVER
27	SODIUM
28	STRONTIUM
29	THORIUM
30	TITANIUM
31	TUNGSTEN
32	URANIUM
33	VANADIUM
34	ZINC ✓

APPENDICES

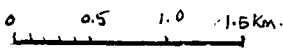
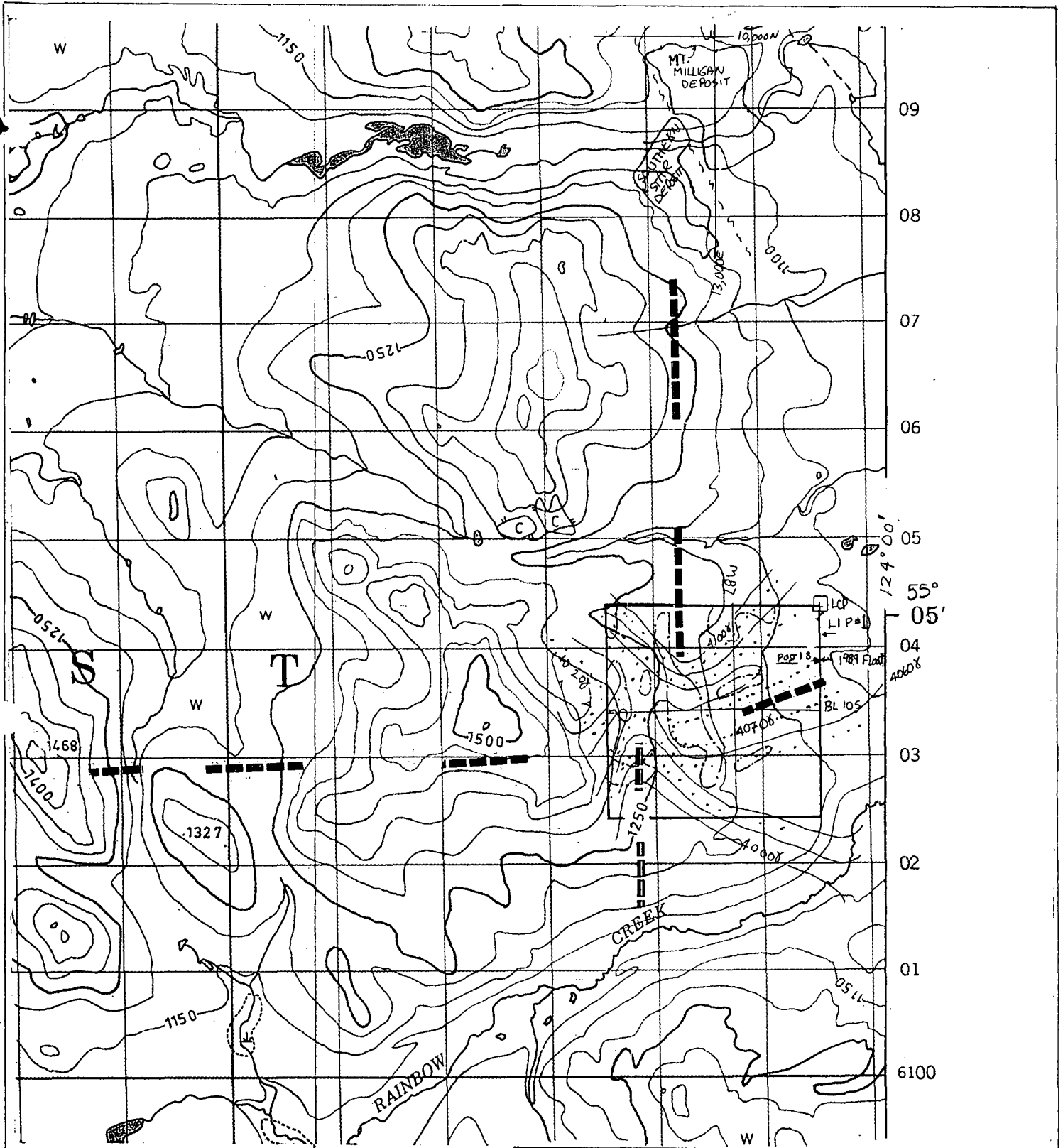
1. CHEMEX CERTIFICATES: A9017581, A9017600, A9018121, A9018629 ✓
2. ACME CERTIFICATES: FILES # 90-2377, 2536, 2786 ✓
3. STATISTICS TO ACCOMPANY DOT-PLOTS. FIGS. 35-64 ✓
4. DESCRIPTION OF FLOAT SAMPLES ✓
5. ANALYTICAL PROCEDURES : CHEMEX, ACME ✓



100 Km
1: 7930,000

PLATE 1

PROPERTY LOCATION MAP
BRITISH COLUMBIA



- AEROMAGNETIC CONTOURS (Ref. 93N/1)
- AEROMAGNETIC TREND
- +90ppm Cu in soils (Ref. Plate 15a)
- MT. MILLIGAN DEPOSITS (Ref. Rebagliati, Harris, Cairn, 1989)
- FAULT

REVISED	BP RESOURCES CANADA LIMITED	
	LIP #1 M.C. CLAIM MAP	
PROJ. No N.T.S. 93N/1E	SURVEY BY: DRAWN BY: R. U. Bruaset	DATE: JULY 1990 SCALE: 1:50,000
PLATE 2	RAGNAR U. BRUASET & ASSOCIATES LTD D.L. COOKE AND ASSOCIATES LTD.	

1. INTRODUCTION

This report describes a soil sampling program carried out in June 1990 on the sixteen unit LIP # 1 mineral claim located in the Mt. Milligan area of north central B. C. The Mt. Milligan area is located about 70 km west of the Town of Mackenzie.

Lip # 1 adjoins the south side of the Mt. Milligan JV of Continental Gold Corp.-BP Resources Canada Limited. An important alkaline gold-copper porphyry system occurs in the Joint Venture property. Based on currently available data, this system is centered about 4.5 km north of Lip # 1. One of the deposits, the Southern Star, extends to within 3.3 km of the latter (Plate 2). The gold-copper mineralization in the Mt. Milligan area is associated with pyrite, chalcopyrite and free gold occurring in Takla volcanics, coeval monzonite, diorite, etc. of Upper Triassic age. The principal deposits, the Mt. Milligan and Southern Star deposits, have central stocks and dykes of monzonitic composition which trend north northwesterly. The Mt. Milligan deposit is now in feasibility with reserves in the order of 200 MT grading about 0.02 oz/ton Au and 0.3 % Cu. Alkaline porphyry style mineralization has typically associated magnetite-rich phases. Consequently, aeromagnetism is widely regarded as the most cost-effective tool in alkaline porphyry exploration.

The authors are aware of the clustering tendencies of alkaline porphyry deposits, the magnitude of the Mt. Milligan system, and the potential significance of the mineralized float found on Lip # 1. The Lip Property is undergoing exploration for possible satellite gold-copper systems of the Mt. Milligan type as well as for the smaller, but higher grade deposits that are more typical of alkaline porphyry environments.

The current program is believed to be the first systematic geochemical survey conducted on Lip # 1 and no previous staking of this ground is indicated.

Lip # 1 M.C. is operated by BP Resources Canada Limited under terms of an option agreement with the D. L. Cooke and R. U. Bruaset.

The Lip # 1 was located on a subtle positive aeromagnetic pattern occurring on a prominent east-west trend (Geophysics Paper 1584, Wittsichica Cr. 93N/1, (Plate 2). A less prominent north-south aeromagnetic trend intersects the east-west trend in the west central portion of the claim. The north-south trend extends northward to the vicinity of the Southern Star deposit. Early encouragement, obtained at the time of staking, included the discovery of a sub-angular, fist-size monzonite float boulder in the creek near Identification Post 1 South. This material which has undergone potassic alteration and contains fracture controlled chalcopyrite was found to be anomalous in Cu, Mo, and Au. The float is considered important because it exhibits a geochemical signature similar

TABLE 1

LIP # 1

SUMMARY OF ANOMALOUS GOLD IN SOILS

BY INSPECTION OF DATA:

Anomalous: +39ppb

Analyses: GOLD: Chemex FA-NAA with 1 ppb detection limit
 COPPER: ACME ICP with 1 ppm detection limit

SAMPLE NO.	PLATE 3		GOLD ppb	(COPPER) ppm
	SOUTHING	WESTING		
L-90-258 S	L 16S	17 W	512	217
131 S	L 2 S	16 W	401	66
004 S	8+50 S	L 2 W	383	52
120 S	LO+00 S	18 W	228	51
112 S	"	11 W	168	69
100 S	O+00 S	L 6 W	111	102
185 S	L 4 S	11 W	83	71
39 S	15 S	L 4 W	77	51
152 S	L 6 S	10 W	65	34
26 S	4 S	4 W	62	68
115 S	L O+00 S	13 W	57	33
27 S	5 S	4 W	48	48
165 S	L 6 S	16+50 W	48	60
242 S	L 18 S	10 W	44	53
196 S	L 10 S	14 W	41	138
246 S	L 18 S	14 W	40	53
20 S	O+50 S	L 2 W	39	53

TABLE 2

GENERAL SUMMARY OF ANALYSIS WITH REFERENCE TO AVERAGE
ABUNDANCE, OR RANGE, (LEVINSON, 1980 AND GEOEXPO VOL:QR Deposit)

ELEMENTS	DETECT. LIMIT	X IF PARTIAL y IF LIMITED	LIP VALUES		LEVINSON TABLE 2-1 p.43, p.863, R=Range
			LOWEST	HIGHEST	
Au ppb	1 ppb		<1	512	Av. 1 ppb
Mo ppm	1 ppm		1	2	Av. 2 ppm
Cu ppm	1 ppm		12	227	Av. 20 R.2-100
Pb ppm	2 ppm		2	31	Av.20 R.2-200
Zn ppm	1 ppm		22	130	Av.50 R.10-300
Ag ppm	0.1 ppm		0.1	2.8	Av.0.1 ppm
Ni ppm	1 ppm		6	81	Av. 30 R.5-500
Co ppm	1 ppm		3	27	Av. 10 R.1-40
Mn ppm	1 ppm	X	94	1861	Av. 850 ppm
Fe %	N/D	X	0.92	6.71	N/D
As ppm	2 ppm		2	39	Av. 5 R. 1-50
U ppm	5 ppm		5	8	Av. 1 ppm
Th ppm	2 ppm		<2	2	Av. 13 ppm
Sr ppm	1 ppm	X	19	149	R. 50-1000
Cd ppm	1 ppm		1	1.8	Av. 1 ppm
Sb ppm	2 ppm		2	4	Av. 5 ppm
Bi ppm	2 ppm		2	8	No data
V ppm	2 ppm		31	154	Av. 80 R. 20-500
Ca %	0.01 %	X	0.2	2.65	No data
P %	0.01 %	X	0.022	0.357	No data
La ppm	2 ppm	X	3	16	No data
Cr ppm	1 ppm	X	23	251	Av. 50 R. 5-1000
Mg %	0.01 %	X	0.18	2.34	No data
Ba ppm	2 ppm	X	51	179	Av. 500 R.100-3000
Ti %	0.01 %	X	0.04	0.21	5000 (ppm)
B ppm	2 ppm	X	2	7	Av. 12 R.2-100
Al %	0.01 %	y	1.16	3.91	No data
Na %	0.01 %	y	0.01	0.02	No data
K %	0.01 %	y	0.01	0.11	No data
W ppm	1 ppm	X	1	2	No data

QR REFERENCES: FOX, et al, in GEOEXPO/86 p. 61

Au in soil over QR: Gen. 125-299 ppb, occasionally + 300 ppb
Cu " " over QR: 140 to 250ppm (personal communication)
As " " Broadly + 50-124 over deposit and down-ice
Mo " " > 6ppm adjacent to N-side and down-ice
Fe " " ? > 4.5 % (pattern not apparent)
Co " " over QR: > 25 ppm including down-ice
Sb " " > 6 ppm down-ice
Zn " " approx. > 150 ppm starting 1 km down-ice
Mg " " > 0.9 % down-ice starting about 2 km N. "
V " " > 135 ppm down-ice

to that of Mt. Milligan and the QR deposits. Given that the glacial transport in the Mt. Milligan area is towards the northeast, we have come to regard the float from Lip # 1 as an important clue to the possible occurrence of other monzonitic mineralizing systems in the Mt. Milligan area or an indication of a possible extension of that system well beyond the known limits.

The soil survey discussed in this report was aimed at defining areas in Lip # 1 with anomalous concentrations of gold, copper and other alkaline porphyry indicator elements. Favorable geochemical anomalies were expected to be followed-up by IP and resistivity surveys to define drill targets. Any outcrop found during the survey would be mapped.

BP Resources Canada Limited had the subject claim surveyed this May with low-level aeromagnetics. This survey encompassed certain adjoining claims also operated by B P. Due to production difficulties, the results from this survey were not available to guide the soil program until well into the survey. Initially, north-south sample lines were used based on a postulated principal east-west structural trend indicated by the high-level aeromagnetics. Availability of the low-level data at the completion Lines 2 W through to 8 W indicated a strong north-south trend with a magnetic high centered along a longitude approximated by 9 W for the current grid. Accordingly, the line orientation for the balance of the survey was changed to east-west to more effectively sample this new trend. Subsequent correlation of this year's aeromagnetic survey with an earlier survey done to the north of the Lip indicated the need for data revision in light of speed changes of the survey aircraft. At report time, the authors have seen a poor quality FAX of the final aeromagnetics and it appears from this that the principal soil anomaly indicated by this survey lies on the margin of an aeromagnetic high. This configuration of aeromagnetics and soil anomaly is considered favorable.

The LIP property is situated in the physiographic division of the Manson Plateau which lies between the Omineca Mountains in the north and the Nechako Lowlands in the south (G. S. C. Map 1701 A, 1986).

The terrain of the Lip Property is gently easterly sloping with elevations ranging from about 1120 to 1300 m. Extensive logging is planned for the claim area during 1990 and 1991 and the first cutting commenced in the northeastern part of the claim during June 1990. The Philip Main Line logging road built by Fletcher-Challenge provides access to within a few hundred meters of the NE corner of the property. This logging road joins the main hauling road extending about 90 km to Windy Point on Highway 97. The current access

is scheduled for extensions to the vicinity of LIP # 1 Identification Posts 2S and 3S this summer where a large block was to be cut commencing in July. The attached Plans at the scale of 1:5000 shows the main roads in existence at the time of the survey. In addition, several field points on the perimeters of active or proposed cut blocks are shown.

The soil geochemical program consisted of a total of 249 soil samples which were collected generally at 100 m intervals along lines 200 m apart. In all, 22 km of lines were sampled. Samples were analyzed for gold and for multi-elements. Five samples of miscellaneous float were also submitted for analysis. Analytical procedures are given in Appendix 5.

No outcrop was encountered in the survey. The possibility of outcrop occurring between sample lines is considered remote.

Ground control was by flagged and picketed lines measured with hip-chain and directed by Brunton compass. Tie lines were run between the ends of grid lines, all data having been plotted at the scale of 1:5000 (Plate 3). The Legal Corner Post of Lip # 1 is the grid origin. In addition, various traverses were run north and east of the Lip claims in order to establish general road reference for the property and for the purpose of confirming the position of the north boundary of Lip where overlap may exist on the previously located Phil 23 M. C. owned by BP Resources Canada Limited. In this surveying we sought to tie into a legal survey presently underway on the BP-Continental Gold JV and thereby establish the position of the key Phil 23 claim post which is located in a remote area relative to the Lip # 1 LCP. A tie-in with the LCP of Phil 23 was not achieved because of adverse weather and shortage of time. However, sufficient control was established for a later tie-in upon the completion of the legal survey scheduled for late July 1990. The suggested tie-in is the Mile 7 Post on the 124th Meridian of Longitude. This post lies on the Legal Boundary between the Cassiar and Cariboo Land Districts. It was apparently intended that this boundary was to coincide with the position of the 124th of the day, which it apparently does not. There are a number of possible reasons for this apparent discrepancy which relates to inadequacies in survey equipment designed to establish position astronomically (pers. comm. Jon Nagwood, Surveyor General's Office).

2. SUMMARY

No outcrop was encountered in the claim area. A few pieces of weekly mineralized float found under overturned roots were submitted for analysis, chiefly to check for gold. Heavy runoff

at the time of the survey made a thorough float search of the local creeks impractical. The soil survey indicated an area of anomalous copper (+90 ppm) trending north northeasterly which appears to be located on the margin of the principal aeromagnetic anomaly obtained in this year's low level survey. This principal soil anomaly measures 1650 m. in length and variously 50 to 300 m. in width. The central part of the anomaly measures 300 m. by 600 m. and for all intents and purposes, this portion of the soil anomaly lies on the aeromagnetic anomaly for which Lip # 1 was located (Plate 2). Gold in soils is characterized by one-point anomalies of + 39 ppm. The principal copper soil anomaly may warrant further work by means of IP and resistivity surveying in an attempt to define a drill target. The operator is known to favour such a program as the next step in the exploration. While further soil sampling is desirable, it is not considered essential in light of the small size of the property and the operator's interest in going directly to IP at this stage. IP would probably indicate whether or not a drill target exists in the claim.

3. DETAILED TECHNICAL DATA AND INTERPRETATION

3A. SOIL SAMPLING

Soil samples were collected using a long handled shovel. Material from the top of the B-Horizon was sought. In the event of unavailability of "B", the C-Horizon was usually obtained. In a few instances, lower A Horizon was sampled where a fair amount of inorganic silt-size material appeared to be present near the limits of convenient sampling depth (70 cm). With the dark color of the latter such soils were assigned to A Horizon. A common sampling problem in the area is the frequent occurrence of boulders in the upper soil. This occasionally required the digging of several holes in order to obtain adequate sample material. Sample depth range from 25 cm to about 80 cm with 30 cm being the most common.

Samples were placed in Kraft soil envelopes of the gusseted type. They were accumulated in large plastic bags inside packsacks. Due to the frequent wet character of the soil, and the resulting weakening of the bags, about 20 % of the samples had suffered sufficient damage in handling to make rebagging essential. However, in no case did bags break open and mix with other sample material. Samples were field-dried in the sun or on a rack alongside a camp fire.

The gross soil profile of the area is readily apparent from road-cuts. Typically, the upper 1 to 2 meters consists of sand and gravel deposits and these rest on mixed clay and boulders (till). The relatively well sorted glacio-fluviatile deposits

(G.F.deposits) covering the till were deposited from melt-water emanating from glaciers. G. F. deposits or glacial outwash are often poor soil sample media partly because of low abundance of silt size particles to which some metal ions may be adsorbed. As a result, subdued geochemical signatures may result in the case of some elements.

The presence of till over mineralized bedrock could have a masking effect depending, on the composition of the till, elements considered and the position of the water table. In the present sampling, we have attempted to subdivide the B Horizon on the basis of apparent presence or absence of abundant silt-size fraction. This division is useful because many of the sample sites of "B" are best described as fine to coarse sand. PB ("poor B"). The typical "B" on the Lip Property is light brown to reddish brown, or a dark brown sandy soil. C Horizon samples are typically unoxidized till, and being till, is poorly sorted and contains a high proportion of silt-sized material. Out of a total of a total of 249 samples collected about 4% are "A", 9 % "PB", 69 % "B" and 18 % "C".

3B. TREATMENT OF DATA

In plotting the data, we have shown the principal elements sought, namely copper and gold, on a 1:5000 scale grid plan along with the soil type. We have also indicated by inspection of the copper data a plus 90 ppm clustering of values near the center of the claim located on a north-south trend of elevated values (+90 ppm). This area may be underlain by monzonitic intrusive, a possibility suggested by both high and low-level aeromagnetic surveys. The treatment of all of this data together regardless of soil horizon from which the samples came, is done with some trepidation but justified on the basis of low sample density, somewhat unfavorable soil conditions and the preliminary nature of the survey. In any detailed sampling here sufficient samples maybe obtained to treat separately data from different soil horizons. Multi-element data is also presented on "dot-plots" for each element considered. It is instructive to consider the distribution of the various elements in relation to the + 90 ppm copper contour of the main copper anomaly. Distinct geochemical pattern are indicated and summarized below. Please refer to Plates 4-34 including Plate 15a which contains all of the copper soil analysis on the convenient scale of 1:10,000.

Table 1 summarizes gold in soils indicated to be anomalous by inspection of the data. Corresponding copper result are included for completeness.

Table 2 presents the overall variation in each component for which analysis have been made and compare these results with the standard abundance tables of Levinson, 1980. Some references are made to abundances of certain indicator elements in the QR deposits at the

bottom of Table 2. The detailed multi-element soil geochemical data of this deposit or that of the Mt. Milligan are not, in the authors' knowledge in the public domain at the present, although summaries are available from various sources, two of which are indicated above.

A multi-element summary is included. This summary was compiled by overlaying the various dot-plots on copper (Plate 15). Several elements exhibit pattern that tend to support the existence a definite anomalous pattern in the area designated as "A" on Plate 15 A.

3C. SUMMARY OF DOT-PLOTS

Preliminary comparisons are made between the soil geochemical patterns for copper and the other elements based on dot-plots. These general correlations are indicated in 3 categories as follows:

(+) positive correlation i.e. relatively HIGH values of ELEMENT CONSIDERED generally coincide with relatively HIGH values of COPPER.

(-) negative correlation i.e. relatively LOW values of ELEMENT CONSIDERED generally coincide with relatively HIGH values in COPPER.

(O) little apparent correlation indicated.

(O) GOLD versus copper. Ref. Plates 16, 15 and 15a

NOTE: THE GENERAL PATTERN OF GOLD INDICATES LITTLE DIRECT RELATIONSHIP TO COPPER. The principal exception is the highest gold (512 ppb) and the second highest copper (217 ppm) (sample near west end of L 16W).

(+) ALUMINUM versus copper. Ref. Plates 5, 15 and 15a

(O) ANTIMONY versus copper. Ref. Plates 6, 15 and 15a

NOTE: Most values near the detection limit.

(+) ARSENIC versus copper. Ref. Plates 7, 15 and 15a

NOTE: MODERATELY STRONG DIRECT RELATIONSHIP

(O) BARIUM versus copper. Ref. Plates 8, 15, 15a

(O) BISMUTH versus copper. Ref. Plates 9, 15, 15a

(+) BORON versus copper. Ref. Plates 10, 15, 15a

(+) CADMIUM versus copper. Ref. Plates 11, 15, 15a

(+) CALCIUM versus copper. Ref. Plate 12, 15, 15a

(+) CHROMIUM versus copper. Ref. Plates 13, 15, 15a

(+) COBALT versus copper. Ref. Plates 14, 15, 15a

(O) IRON versus copper. Ref. Plates 16, 15, 15a

(+) LANTHANUM versus copper. Ref. Plates 18, 15, 15a

NOTE: La is lithophile and typically associated with Li, Na, K, Rb, Cs, Be, Mg, Ca, Sr, Ba, B, Al, Sc, Y and rare earths. Also ref. Levinson p. 868. Soil occurrences includes limonite and clays.

(+) LEAD versus copper. Ref. Plates 19, 15, 15a.

NOTE: a somewhat variable pattern that is mainly (+).

(+) MAGNESIUM versus copper. Ref. Plates 20, 15, 15a.

(+) MANGANESE versus copper. Ref. Plates 21, 15, 15a.

(O) MOLYBDENUM versus copper. Ref. Plates 22, 15, 15a.

NOTE: essentially detection limit-values.

- (+) NICKEL versus copper. Ref. Plates 23, 15, 15a.
- (+) PHOSPHORUS versus copper. Ref. Plates 24, 15, 15a.
- (+) POTASSIUM versus copper. Ref. Plates 25, 15, 15a.
- (+) SILVER versus copper. Ref. Plates 26, 15, 15a.
- (O) SODIUM versus copper. Ref. Plates 27, 15, 15a.
NOTE: essentially detection limit-values.
- (+) STRONTIUM versus copper. Ref. Plates 28, 15, 15a.
- (O) THORIUM versus copper. Ref. Plates 29, 15, 15a.
NOTE: Detection limit values.
- (O) TITANIUM versus copper. Ref. Plates 30, 15, 15a.
NOTE: suggestion of Ti halo on some lines
but the pattern is quite variable.
- (O) URANIUM versus copper. Ref. Plates 32, 15 and 15a.
- (O) TUNGSTEN versus copper. Ref. Plates 31, 15, 15a.
NOTE: detection limit values.
- (O) VANADIUM versus copper. Ref. Plates 33, 15, 15a
- (O) ZINC versus copper. Ref. Plates 34, 15, 15a.

3D. INTERPRETATION.

Final interpretation of this data must be made in light of the low-level aeromagnetic data. From what we now know, it appears that copper soil anomalies (+ 90 ppm) occur mainly in the western part of the property near an aeromagnetic high. The possibility that the aeromagnetic high is caused by a monzonitic intrusion with associated alkaline porphyry gold-copper mineralization has to be considered. This would also be a possible source for mineralized monzonite float found last year in the main creek near Lip # 1 Identification Post 1 S. The overall north northwesterly trend of the largest soil anomaly is similar to the trend of the MBX and Southern Star stocks both situated about 3.5 to 4.5 km to the north of Lip # 1 (Rebagliati, et al, 1989). These intrusions are the "cores" of the Mt. Milligan and Southern Star Deposits.

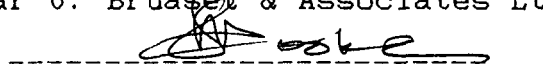
3E. CONCLUSIONS

1. Systematic soil sampling on Lip # 1 has indicated several copper anomalies that may warrant further work.
2. Several multi-element anomalies coincide generally with copper anomalies. They are: Al, As, B, Cd, Ca, Cr, Co, La, Pb, Mg, Mn, Ni, P, Ag and Sr.
3. Multi-sample anomalies of gold do not occur in this data. Arguably, gold in these soils occurs peripheral to copper. However, individual gold highs could be significant in terms of small (30-50 MT) alkaline porphyry deposits.
4. Soil conditions on the property are far from ideal with the prevalence of well-sorted gravelly material. The geochemical responses for some elements are likely influenced by the thickness and quality of the overburden.
5. The Lip claim is completely drift covered.
6. High-level aeromagnetic patterns in the Lip area suggest possible structures of exploration interest. The soil sampling has served to more accurately define areas of ongoing interest.

Report by:

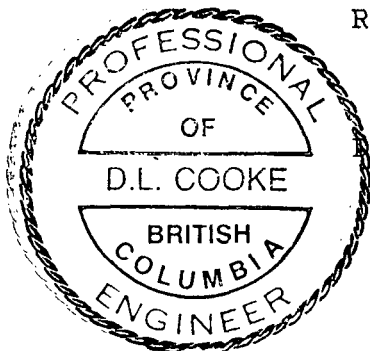


R. U. Bruaset B. Sc., F.G.A.C.
Ragnar U. Bruaset & Associates Ltd.



D. L. Cooke Ph. D., P. Eng.

L. Cooke And Associates Ltd.
August 3, 1990



3F. REFERENCES

Fox, P.E., Cameron, R. S. and Hoffman, S. J. 1986 Geology and Soil Geochemistry of the Quesnel River Gold Deposit, British Columbia in: GEOEXPO/86 Exploration in the North American Cordillera

Levinson, A.A. 1980 Introduction to Exploration Geochemistry

Rebagliati, Harris, Cairns 1989, Mt. Milligan Porphyry Gold-Copper Deposit Geology. 1:10,000 summary map.

4. COST STATEMENT

ANALYSIS:

Chemex: 246 soils for NAA gold incl. prep.	@ \$9.00	\$2214.00
5 rocks for NAA gold incl. prep.	@ \$12.00	\$60.00

Acme: 246 soils by 30 el. ICP	@ \$3.25	\$799.50
5 rocks by 30 el. ICP, 1 disk, surcharg.	@ \$5.28	26.40

WAGES:

D. Andereggen Period: June 12-29	17 days @ \$115.24	\$1959.15
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FEES:

Ragnar U. Bruaset & Associates Ltd.		\$10,600.00
D. L. Cooke & Associates Ltd.		\$1,600.00
New Horizon Software 246-sample Dot-Plots		\$369.00

RENTAL:

Chain saw	2 days @ \$20.00	\$40.00
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SUPPLIES Stationery, flagging, string, sample bags, pickets		\$612.45
----------------------------------------------------------------	--	----------

TRANSPORTATION

Surface transportation: rental, fuel, milage, insurance		\$1991.97
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DOMICILE

Meals, groceries, lodging, camp		\$1854.84
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COMMUNICATION

Long distance calls, FAX		\$95.29
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DELIVERY AND FREIGHT

Courier		\$100.00
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REPORTING

Ragnar U. Bruaset & Associates Ltd.		\$2000.00
D. L. Cooke & Associates Ltd.		\$400.00

REPORT MISCELLANEOUS

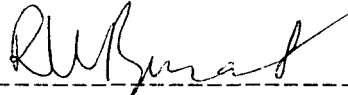
Photostat, printing, binding, mylar		\$350.00
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TOTAL		\$25072.60
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5. STATEMENT OF QUALIFICATIONS

I certify that:

1. I am a 1967 graduate of the University of British Columbia with a B.Sc. degree in geology. I am a Fellow of the Geological Association of Canada, a Member of The Association of Exploration Geochemists, and the Society of Economic Geologists.
2. I have been involved in geological mapping and geochemical sampling programs in diverse Cordilleran areas since my graduation including alkaline porphyry environments in the Omineca district.
3. This report is based on work carried out in the field by me or under my directions on behalf of BP Resources Canada Limited.
4. That I visited the claim during the period June 14 to 29, 1990 and that I co-authored this report.



Ragnar U. Bruaset B.Sc. F.G.A.C.

August 3, 1990

5. STATEMENT OF QUALIFICATIONS

I, DAVID LAWRENCE COOKE, of the Municipality of Surrey in the Province of British Columbia, hereby certify:

1. That I am a Consulting Geologist , residing at 10667 Arbutus Wynd, Surrey, B. C. V3R 0B5, with a business office at 811-675 West Hastings Street, Vancouver , B. C., V6B 1N2.
2. That I graduated with a B. Sc. degree in Geology from the University of New Brunswick in 1959, and with M, A. and Ph. D. degrees in Geology from the University of Toronto in 1961 and 1966, respectively.
3. That I have practised my profession as an exploration geologist from 1959 to the present time in Canada, the U.S.A., Mexico, the Caribbean and South America.
4. That I am a Registered Member of the Association of Professional Engineers of the Province of British Columbia since 1970.
5. That I visited Lip # 1 Mineral Claim on June 26 and 27, 1990 and participated in the combined geological and geochemical exploration program herein described and that I am a co-author of this report.



David L. Cooke, Ph.D., P. Eng.

August 3, 1990



2000 W

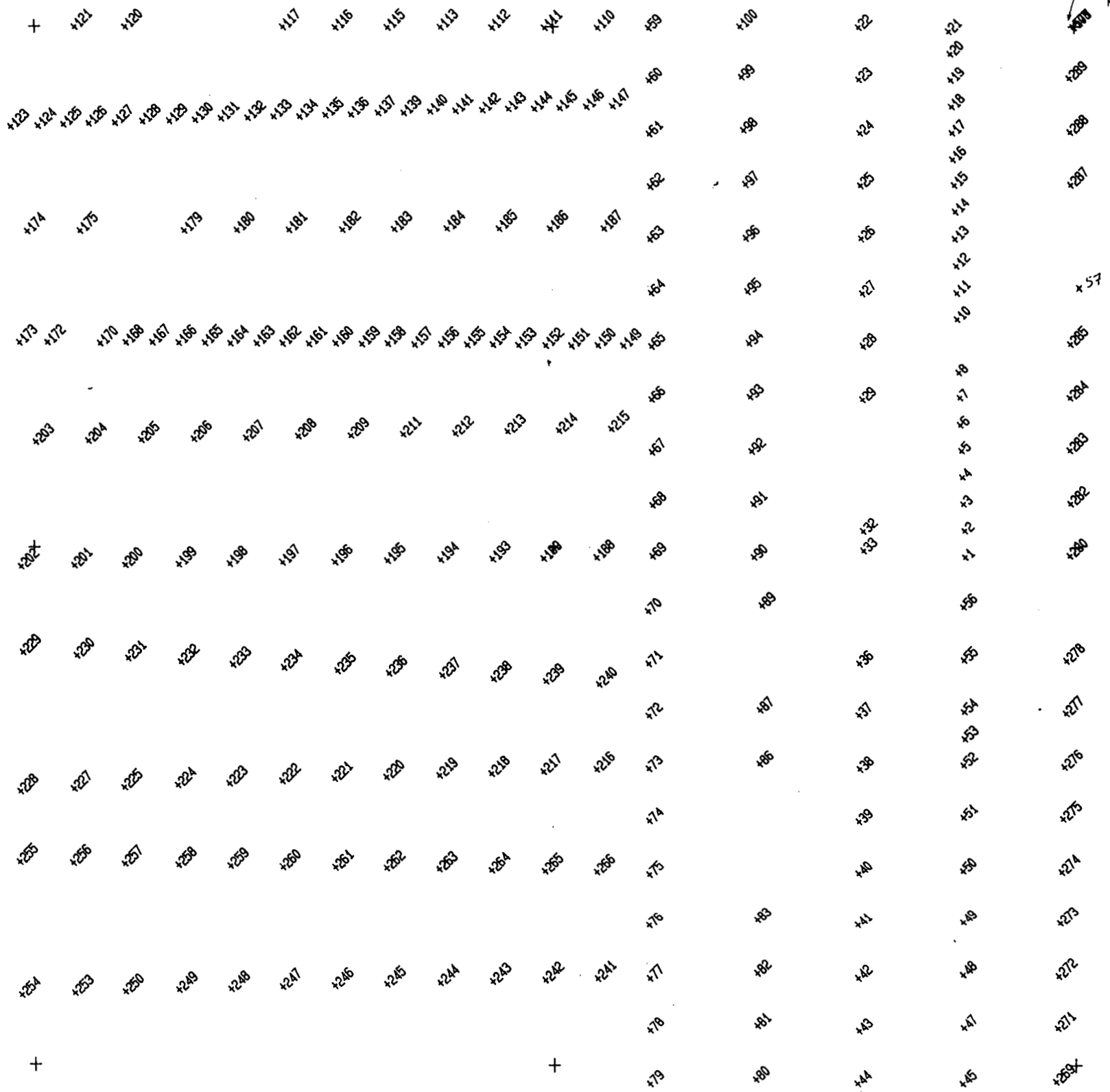
1000 W

0 E

0 N

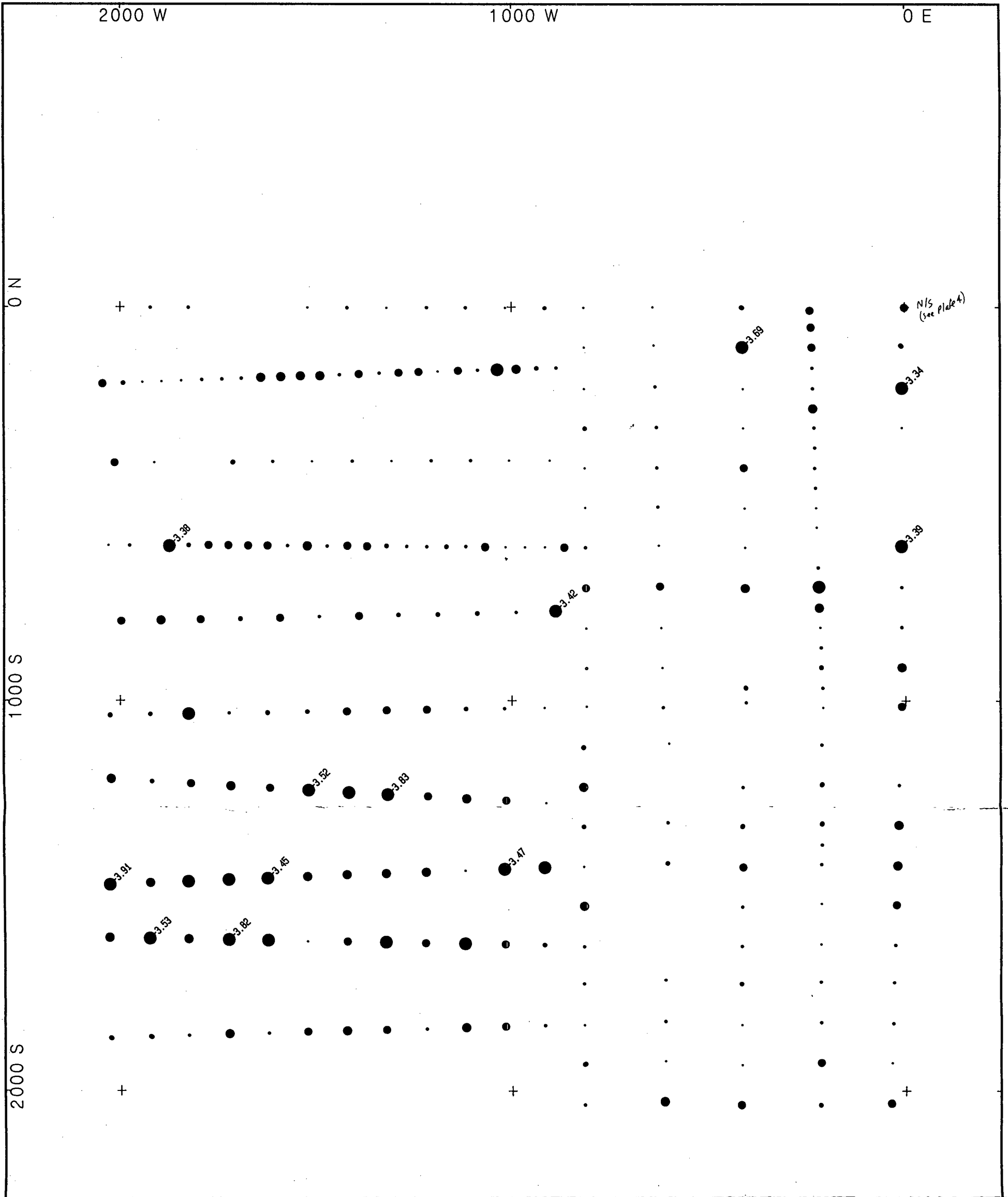
1000 S

2000 S



Grid origin:
LIP #1 LCP
No sample
here.
Sample shown
(L90-573)'s
at 500m South
of 15. (Plate 2)
RMB.

		Sample Locations	
		LIP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE			
Project No.	NTS	93N/1E	Scale 1:10000
Date	JULY 1990	Report No.	Fig. No. 4
BP RESOURCES CANADA LIMITED			



		ALUMINUM (%)	
		LIP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE			
Project No.	NTS	Scale	1:10000
Date	JULY 1990	Report No.	93N/1E
		Fig. No.	5
BP RESOURCES CANADA LIMITED			

- > 3.3
- ≤ 3.3
- ≤ 3.1
- ≤ 2.8
- ≤ 2.5
- ≤ 2.3
- ≤ 2

2000 W

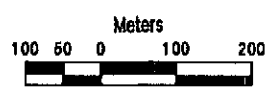
1000 W

0 E

0 N

1000 S

2000 S



- > 7
- 6 < ≤ 7
- 5 < ≤ 6
- 4 < ≤ 5
- 3 < ≤ 4
- 2 < ≤ 3
- 0 < ≤ 2

ANTIMONY (ppm)

LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS	Scale
Date	93N/1E	1:10000
	Report No.	Fig. No. 6

BP RESOURCES CANADA LIMITED

2000 W

1000 W

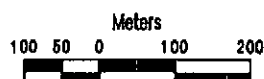
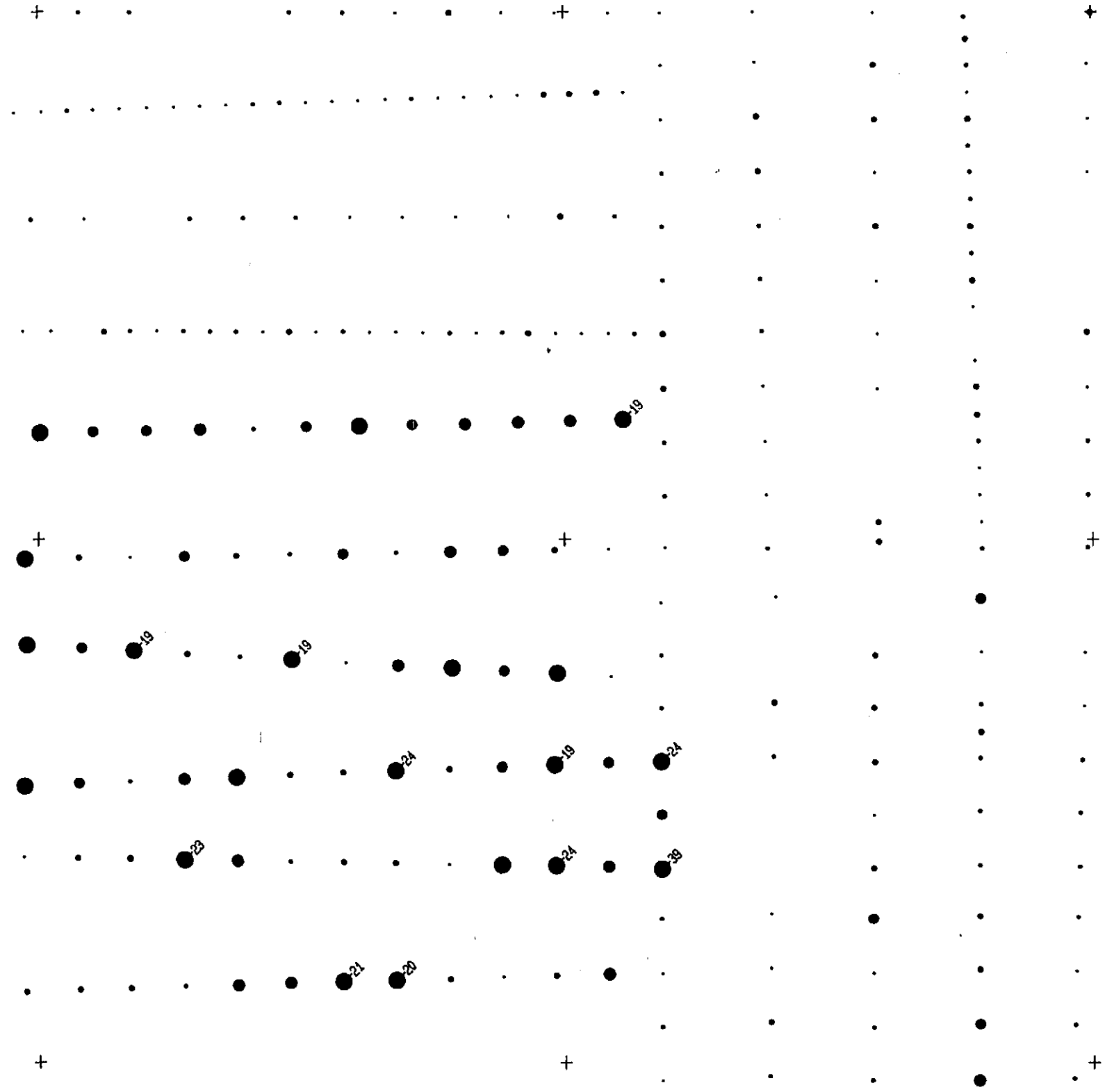
0 E

0 N

1000 S

2000 S

N/S
see Plate 4



- > 18
- ≤ 18
- ≤ 16
- ≤ 14
- ≤ 12
- ≤ 8
- ≤ 5

ARSENIC (ppm)

LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS 93N/1E	Scale 1:10000
Date JULY 1990	Report No.	Fig. No. 7

BP RESOURCES CANADA LIMITED

2000 W

1000 W

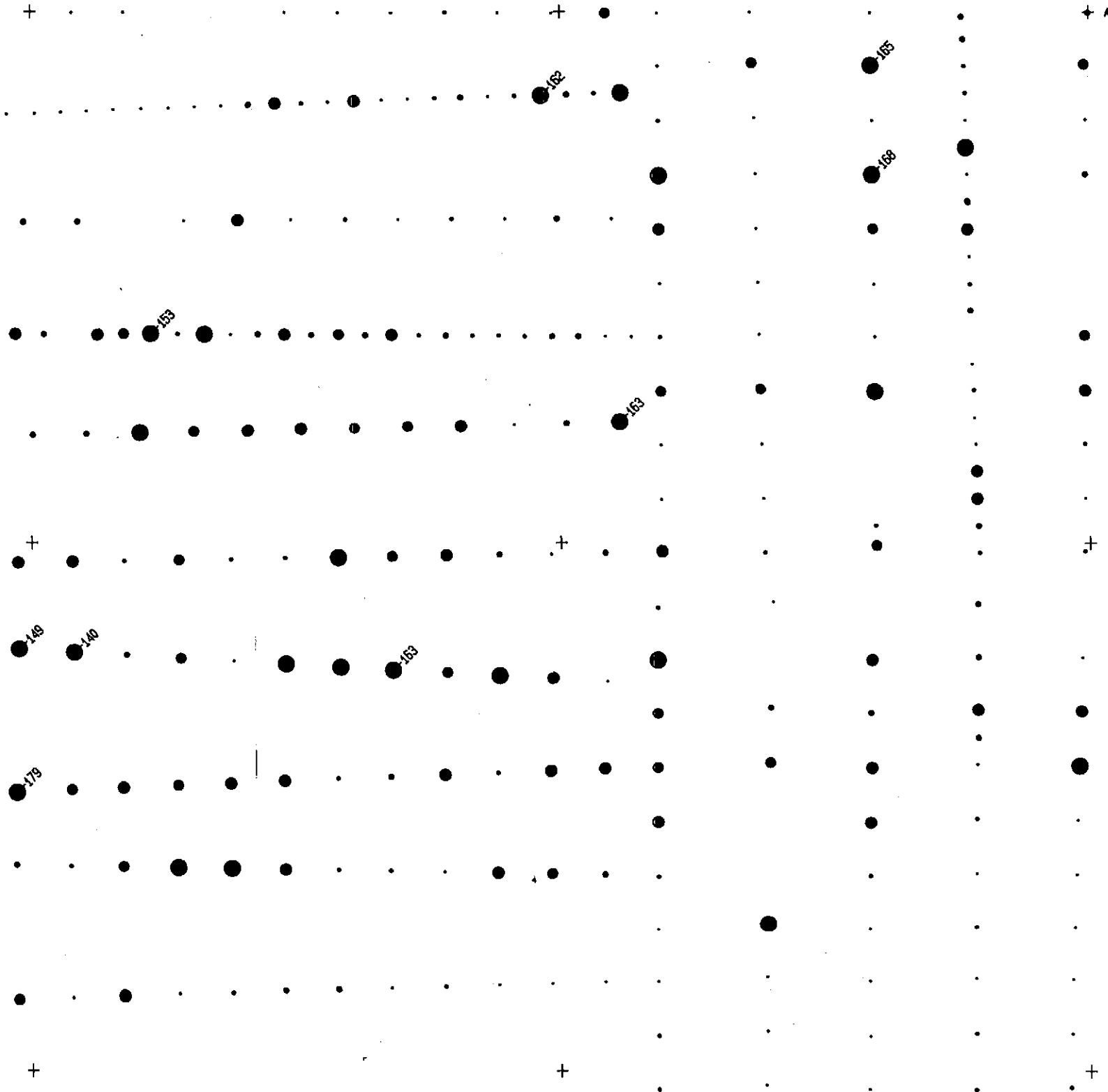
0 E

0 N

1000 S

2000 S

+ N/S see Plate 4



		BARIUM (ppm)	
	<p> 120 < ● > 135 105 < ● ≤ 135 95 < ● ≤ 120 85 < ● ≤ 105 75 < ● ≤ 95 0 < ● ≤ 85 </p>	LIP #1 M.C. SOIL GEOCHEMICAL SURVEY - JUNE	
Project No. NTS 93N/1E		Scale 1:10000	
Date JULY 1990		Report No. Fig. No. 8	
BP RESOURCES CANADA LIMITED			

2000 W

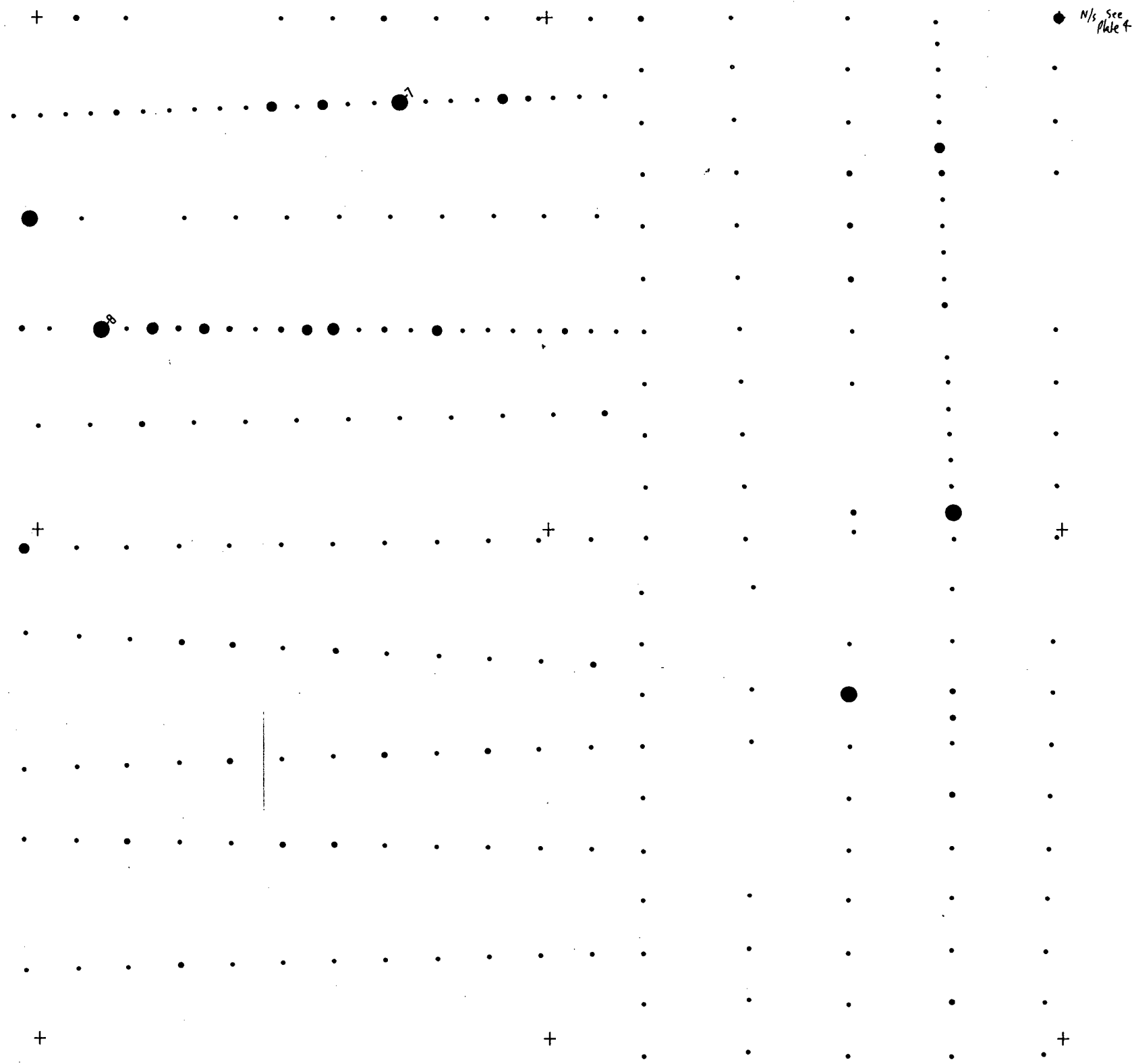
1000 W

0 E

0 N

1000 S

2000 S



		<p style="text-align: center;"> </p>		BISMUTH (ppm) LIP #1 M.C.		
				SOIL GEOCHEMICAL SURVEY - JUNE		
Project No.		NTS 93N/1E		Scale 1:10000		
Date JULY 1990		Report No.		Fig. No. 9		
BP RESOURCES CANADA LIMITED						

2000 W

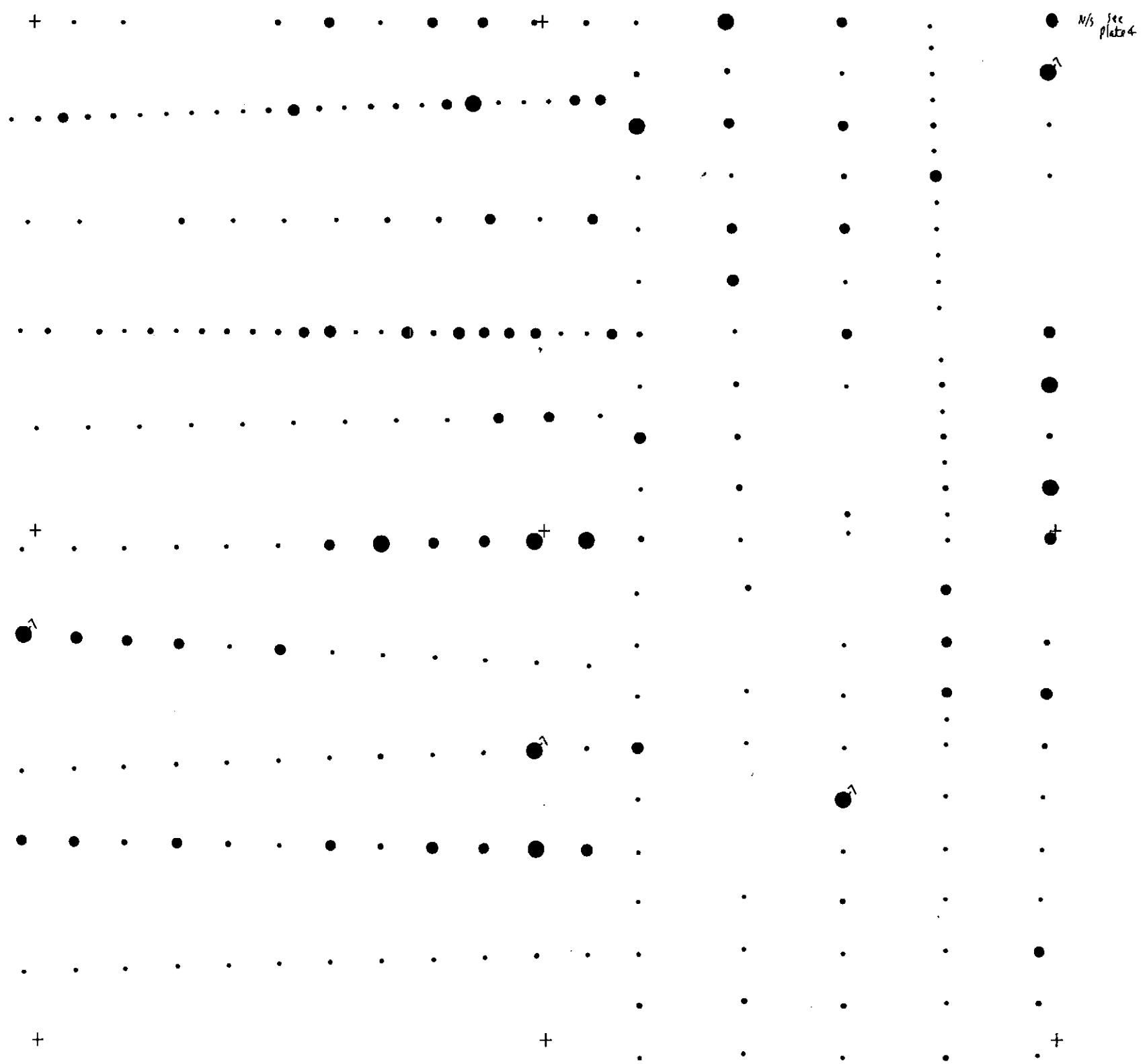
1000 W

0 E

0 N

1000 S

2000 S



		<ul style="list-style-type: none"> > 6 5 < 4 < 3 < 2 < 1 < 0 < 		BORON (ppm)	
				LIP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE		Project No.	NTS 93N/1E	Scale	1 : 10000
BP RESOURCES CANADA LIMITED		Date	JULY 1990	Report No.	Fig. No. 10

2000 W

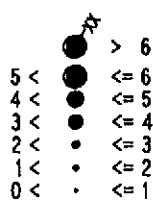
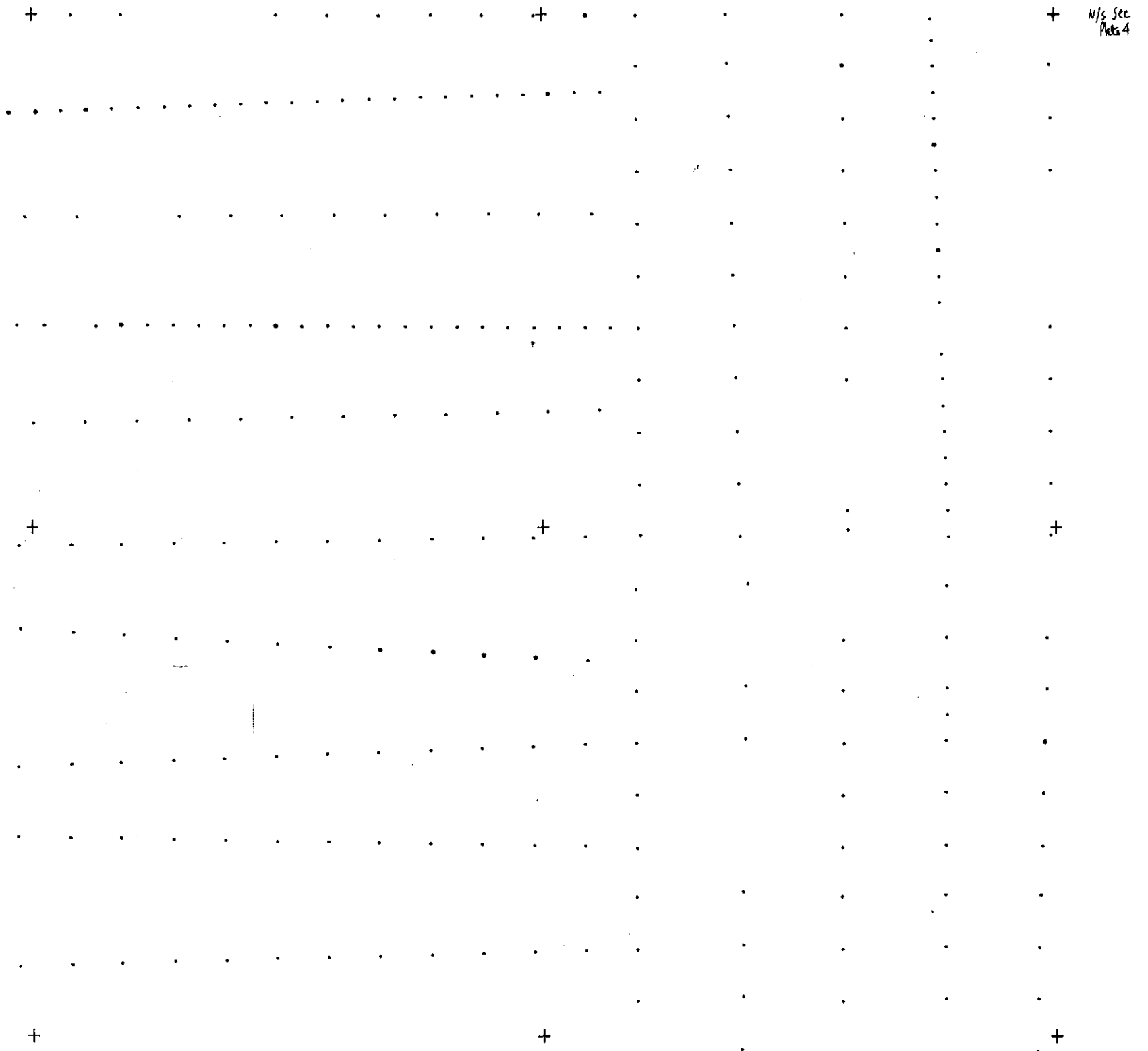
1000 W

0 E

0 N

1000 S

2000 S



CADMIUM (ppm)

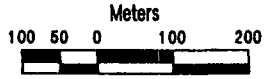
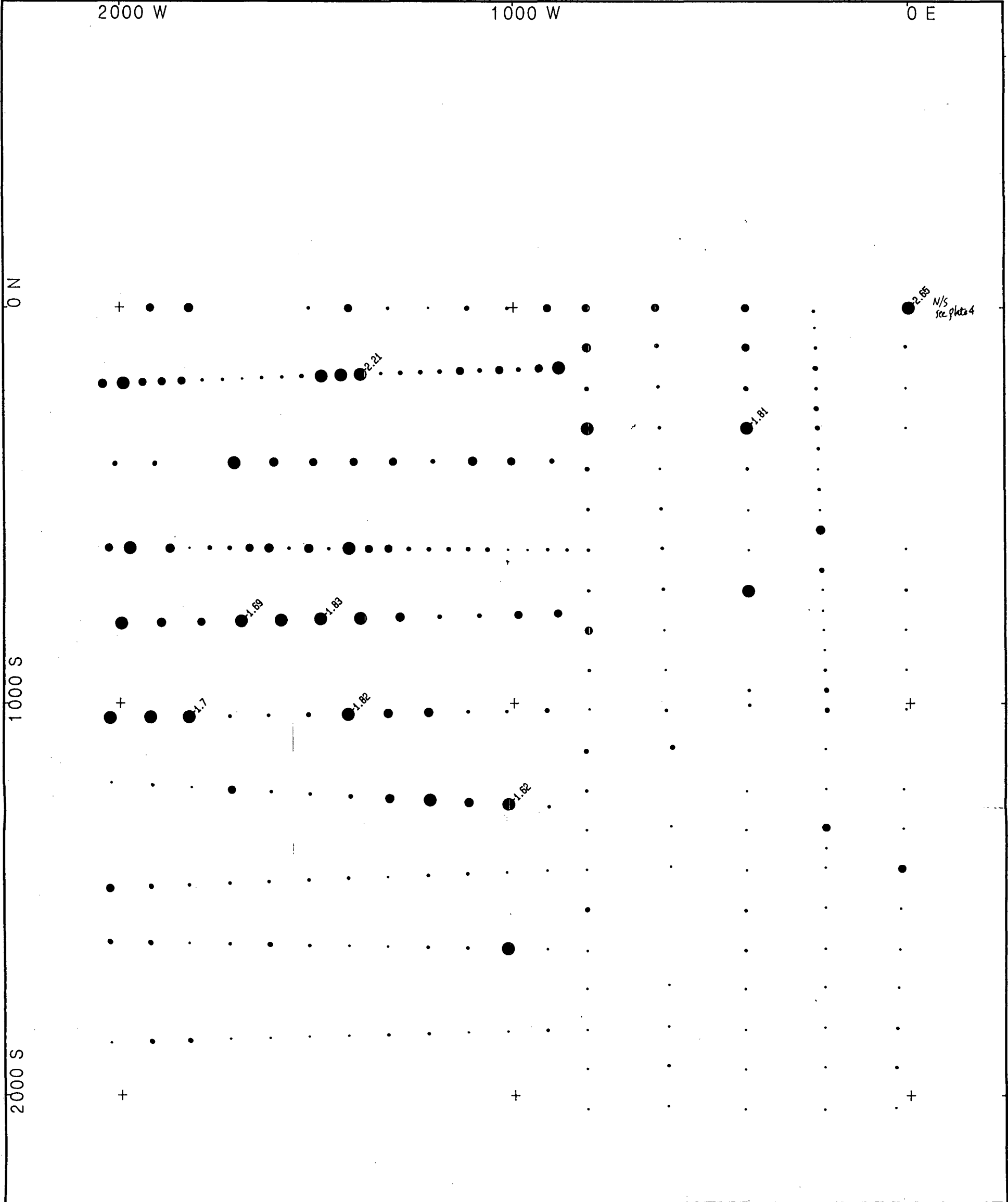
LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS	Scale
Date	93N/1E	1:10000
	Report No.	Fig. No. 11

BP RESOURCES CANADA LIMITED

JULY 1990



- > 1.5
- 1.25 < <= 1.5
- 1 < <= 1.25
- .8 < <= 1
- .6 < <= .8
- .45 < <= .6
- 0 < <= .45

CALCIUM (%)

LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS	Scale
Date	93N/1E	1:10000
JULY 1990	Report No.	Fig. No. /2

BP RESOURCES CANADA LIMITED

2000 W

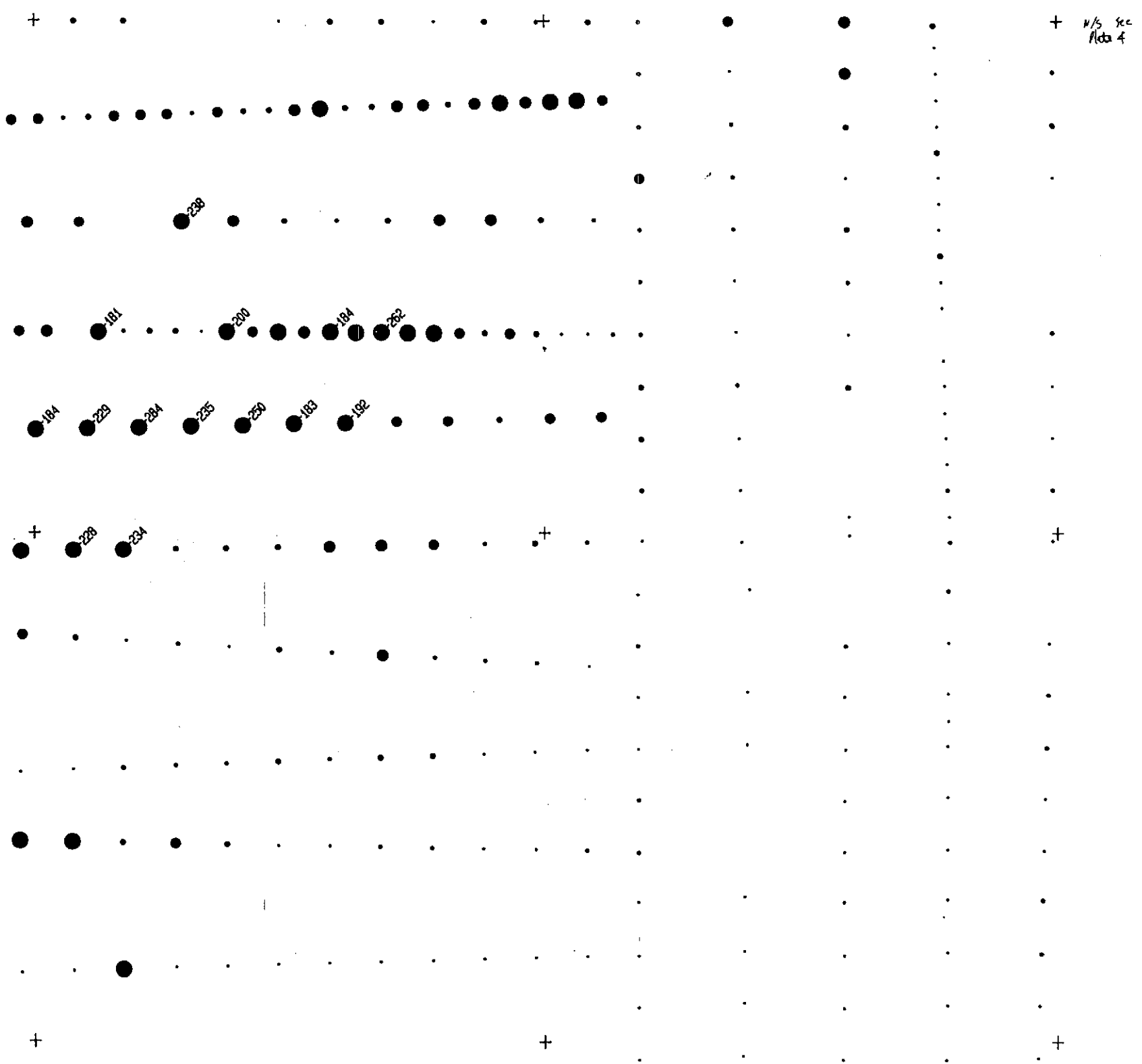
1000 W

0 E

0 N

1000 S

2000 S



N/S sec
Area 4

		<p style="text-align: center;">● ^{xx} > 180</p> <p>● 145 < <= 180</p> <p>● 120 < <= 145</p> <p>● 100 < <= 120</p> <p>● 85 < <= 100</p> <p>● 70 < <= 85</p> <p>● 0 < <= 70</p>		<p>CHROMIUM (ppm)</p> <p>LIP #1 M.C.</p> <p>SOIL GEOCHEMICAL SURVEY - JUNE</p>	
		Project No.	NTS	Scale	1 : 10000
BP RESOURCES CANADA LIMITED		Date	JULY 1990	Report No.	Fig. No. 13

2000 W

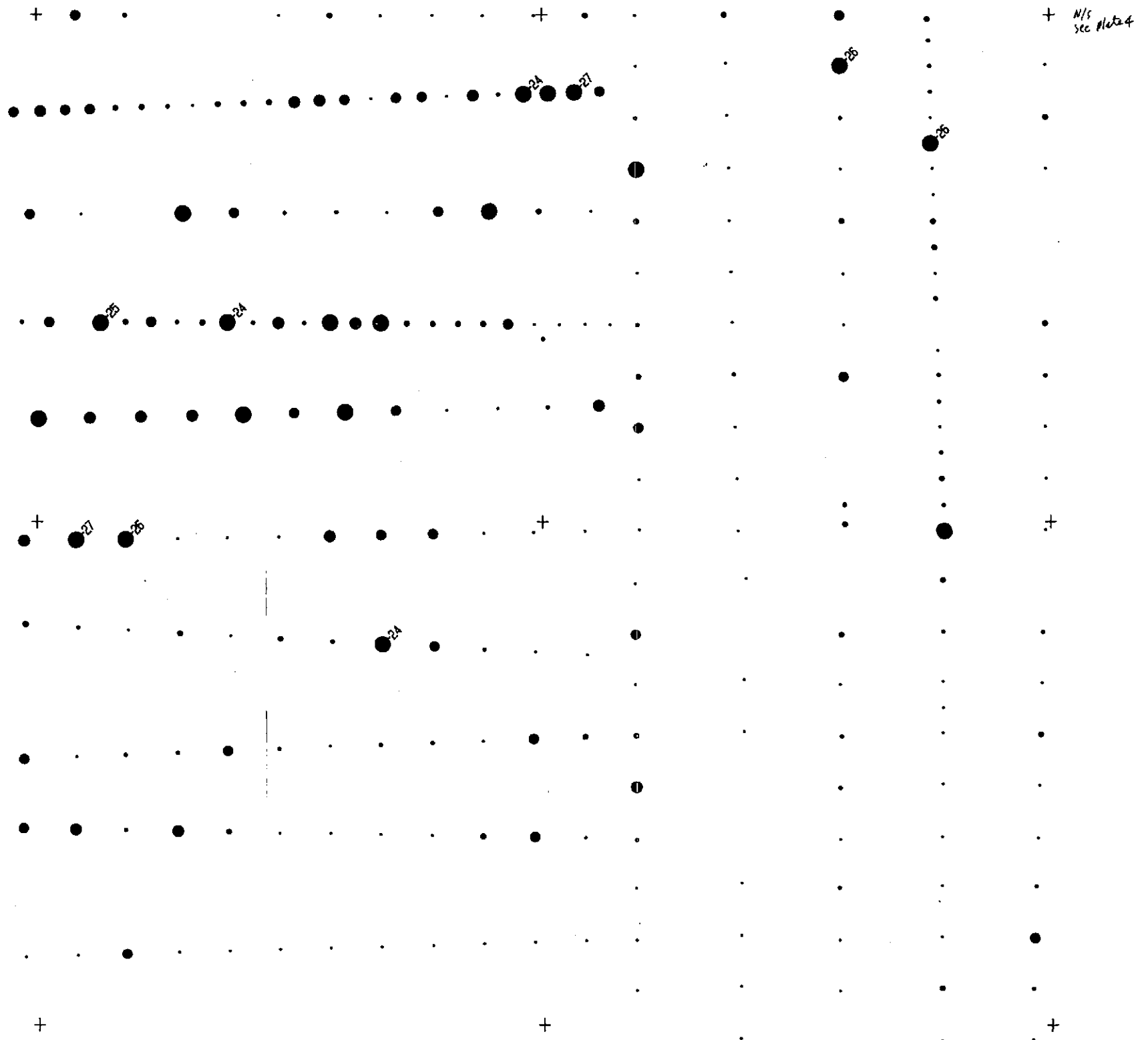
1000 W

0 E

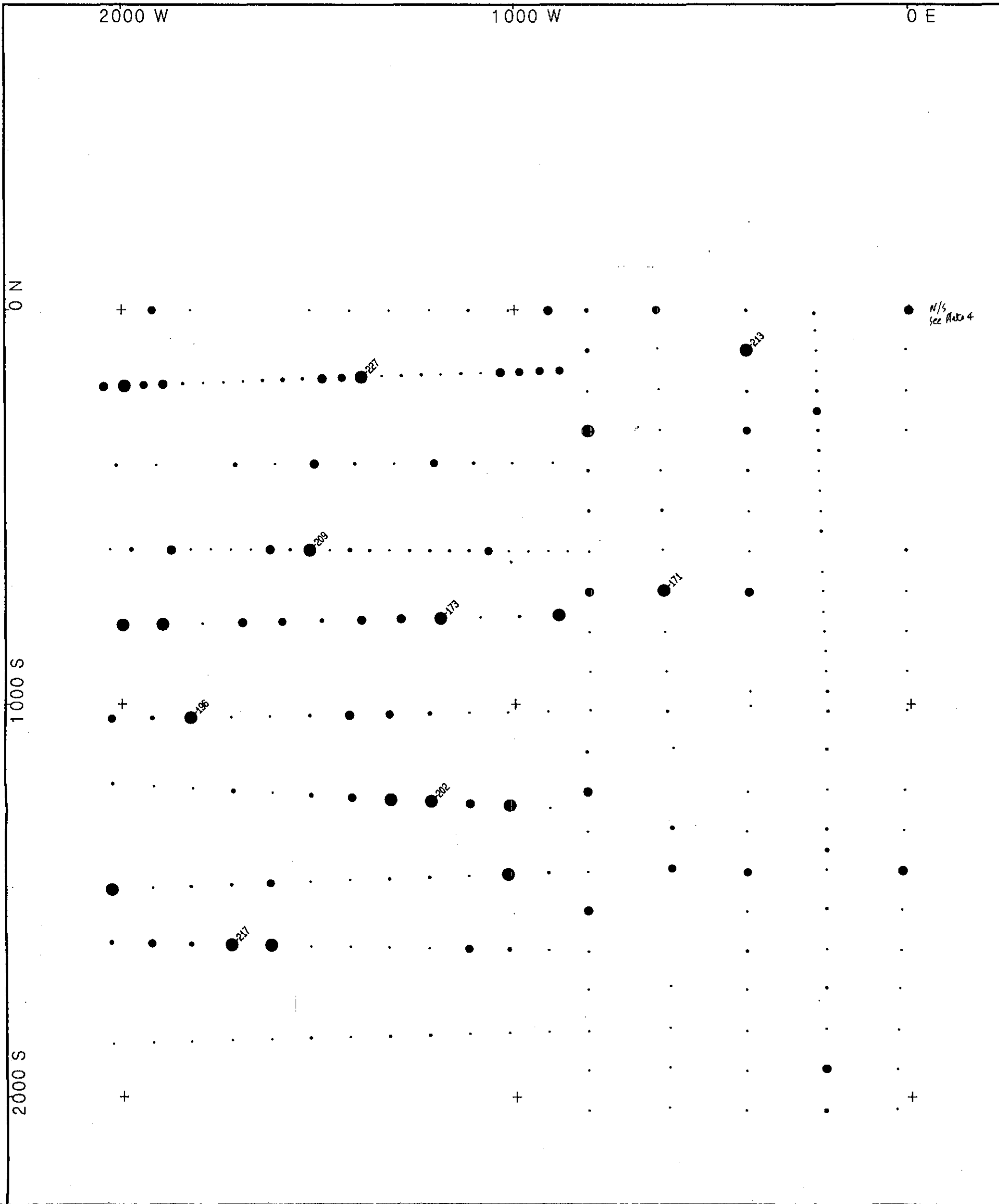
0 N

1000 S

2000 S



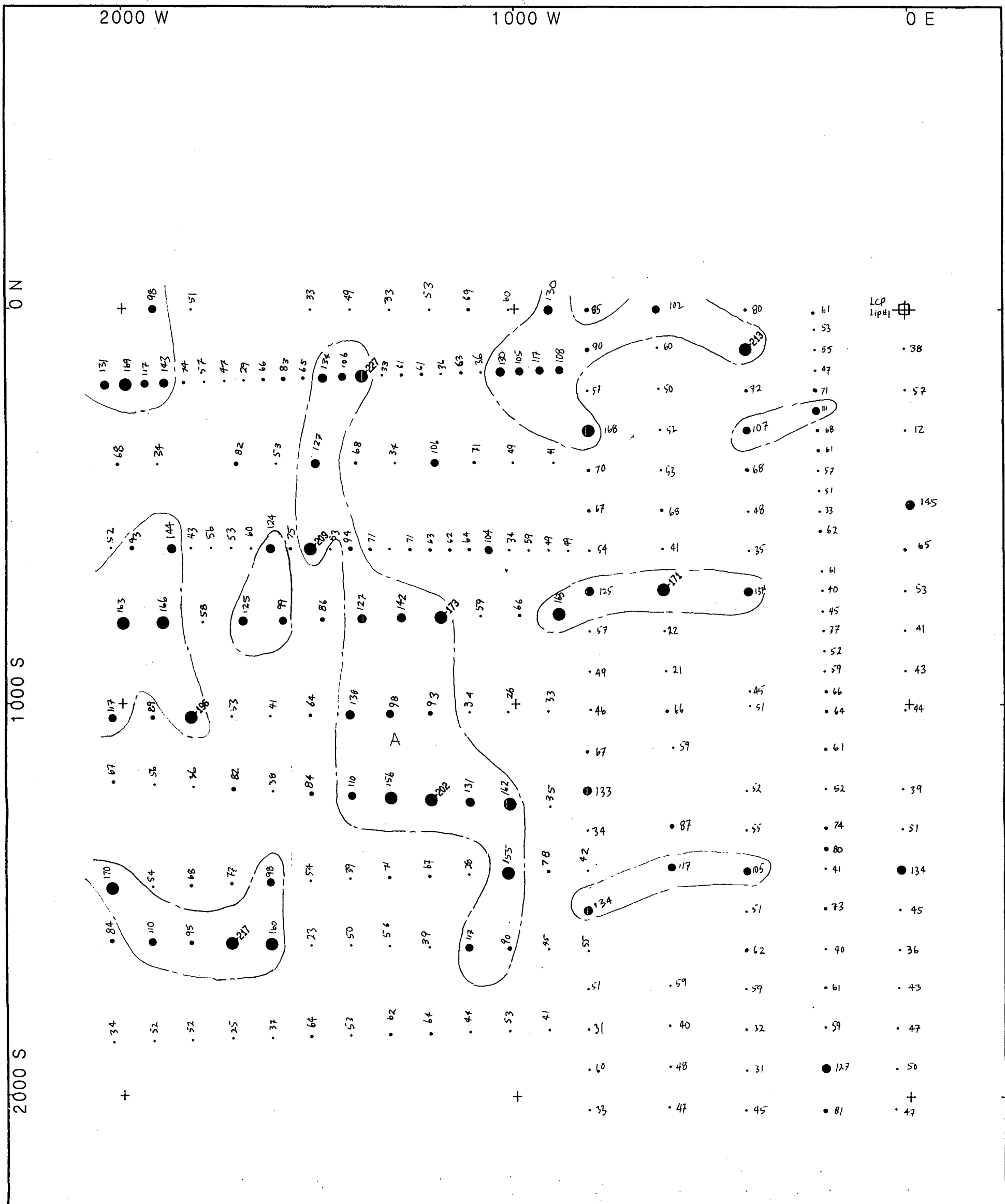
		<p style="text-align: center;">● > 23</p> <p>20 < ● ≤ 23</p> <p>18 < ● ≤ 20</p> <p>16 < ● ≤ 18</p> <p>14 < ● ≤ 16</p> <p>12 < ● ≤ 14</p> <p>0 < ● ≤ 12</p>		<p>COBALT (ppm)</p> <p>LIP #1 M.C.</p>	
		<p>SOIL GEOCHEMICAL SURVEY -- JUNE</p>		<p>Project No. NTS</p>	<p>Scale 1:10000</p>
<p>BP RESOURCES CANADA LIMITED</p>		<p>Date JULY 1990</p>	<p>Report No. 93N/1E</p>	<p>Fig. No. 14</p>	



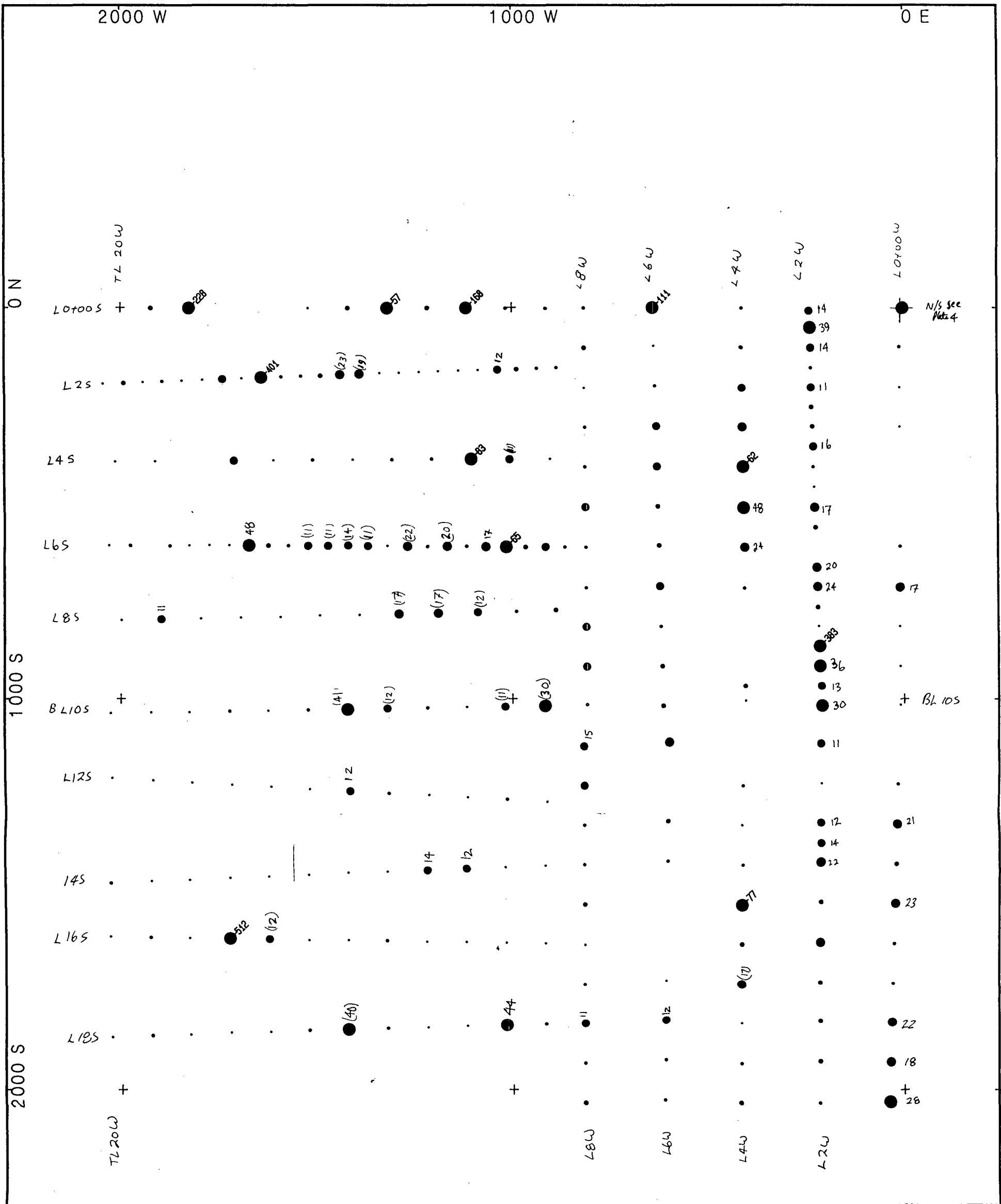
N/S
see Plate 4

		<p>COPPER (ppm)</p>	
		<p>LIP #1 M.C.</p>	
<p>SOIL GEOCHEMICAL SURVEY - JUNE</p>			
Project No.	NTS	Scale	1:10000
Date	JULY 1990	Report No.	Fig. No. 15
<p>BP RESOURCES CANADA LIMITED</p>		<p>New Horizon Software.</p>	

- > 170
- 145 < <= 170
- 120 < <= 145
- 95 < <= 120
- 80 < <= 95
- 60 < <= 80
- 0 < <= 60

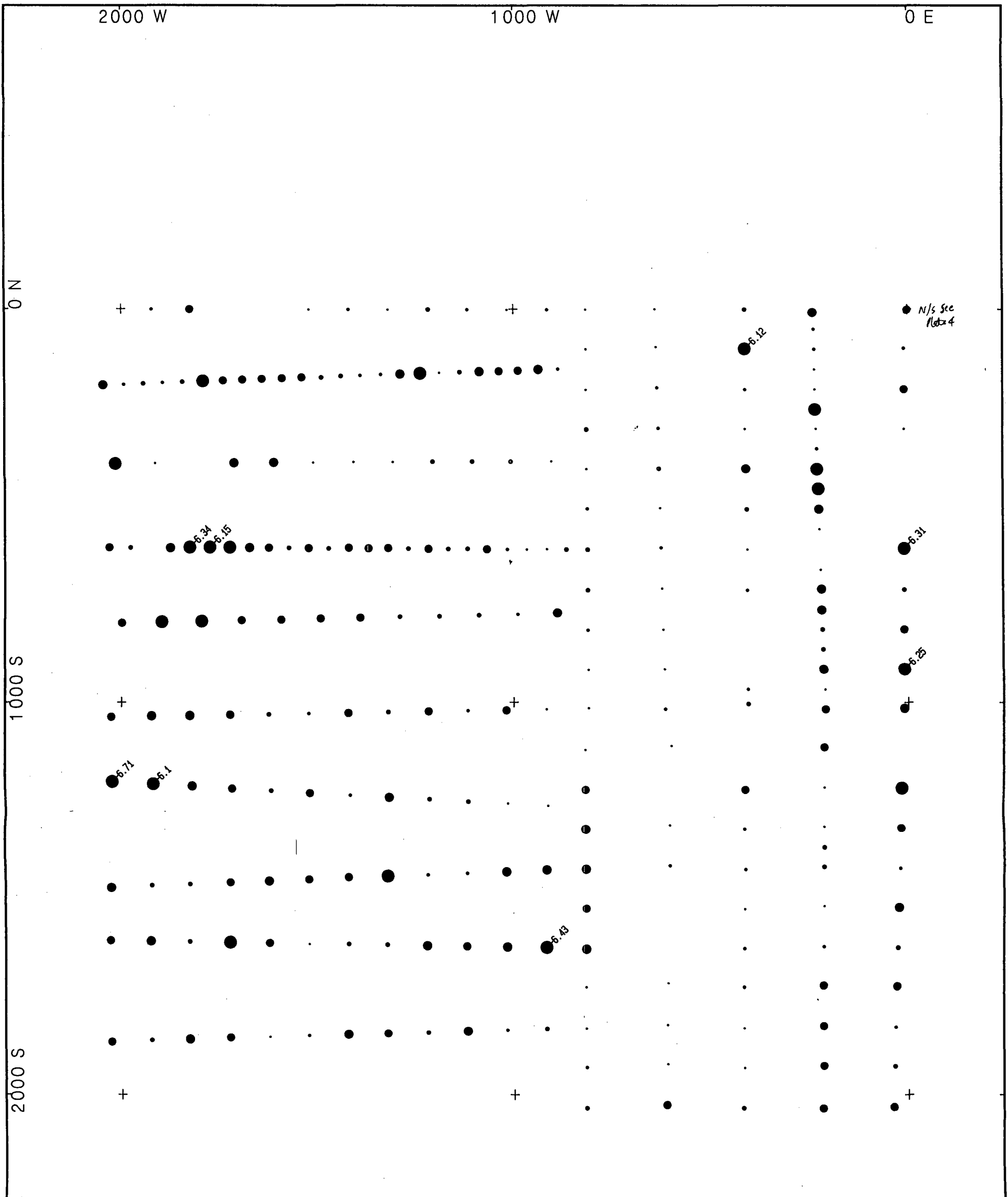


		COPPER (ppm)	
		LIP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE			
Project No.	NTS	93N/IE	Scale 1:10000
Date	JULY 1990	Report No.	Fig. No. 15a
BP RESOURCES CANADA LIMITED		New Horizon Software.	

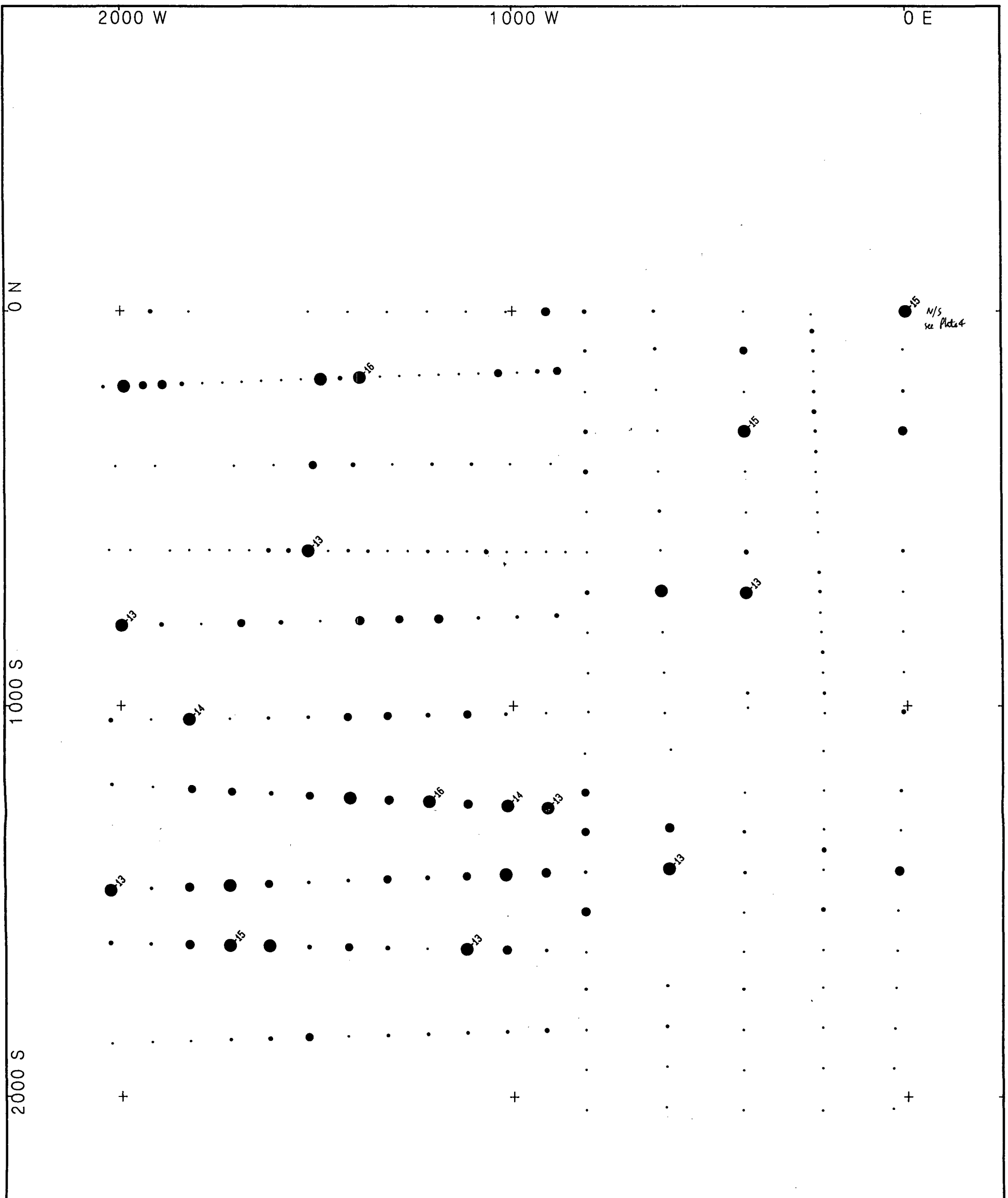


		<p style="text-align: center;">GOLD (ppb)</p> <p style="text-align: center;">LIP #1 M.C.</p>	
		<p>SOIL GEOCHEMICAL SURVEY - JUNE</p>	
Project No.	NTS	93N/1E	Scale 1:10000
Date	JULY 1990	Report No.	Fig. No. 16
<p>BP RESOURCES CANADA LIMITED</p>		<p>New Horizon Software.</p>	

- > 50
- ≤ 50
- ≤ 25
- ≤ 16
- ≤ 10
- ≤ 7
- ≤ 4



				IRON (%)	
		5.5 < ● > 6 5 < ● <= 6 4.5 < ● <= 5.5 4 < ● <= 5 3.5 < ● <= 4.5 0 < ● <= 4 0 < ● <= 3.5		LIP #1 M.C. SOIL GEOCHEMICAL SURVEY - JUNE	
BP RESOURCES CANADA LIMITED		Project No. NTS	93N/1E	Scale 1:10000	
		Date JULY 1990	Report No.	Fig. No. 17	



	<ul style="list-style-type: none"> > 12 <= 12 <= 11 <= 9 <= 8 <= 7 <= 6 	LANTHANUM (ppm)		
		LIP #1 M.C.		
SOIL GEOCHEMICAL SURVEY - JUNE				
Project No.	NTS	Scale	1:10000	
Date	JULY 1990	Report No.	Fig. No. 18	
BP RESOURCES CANADA LIMITED				

2000 W

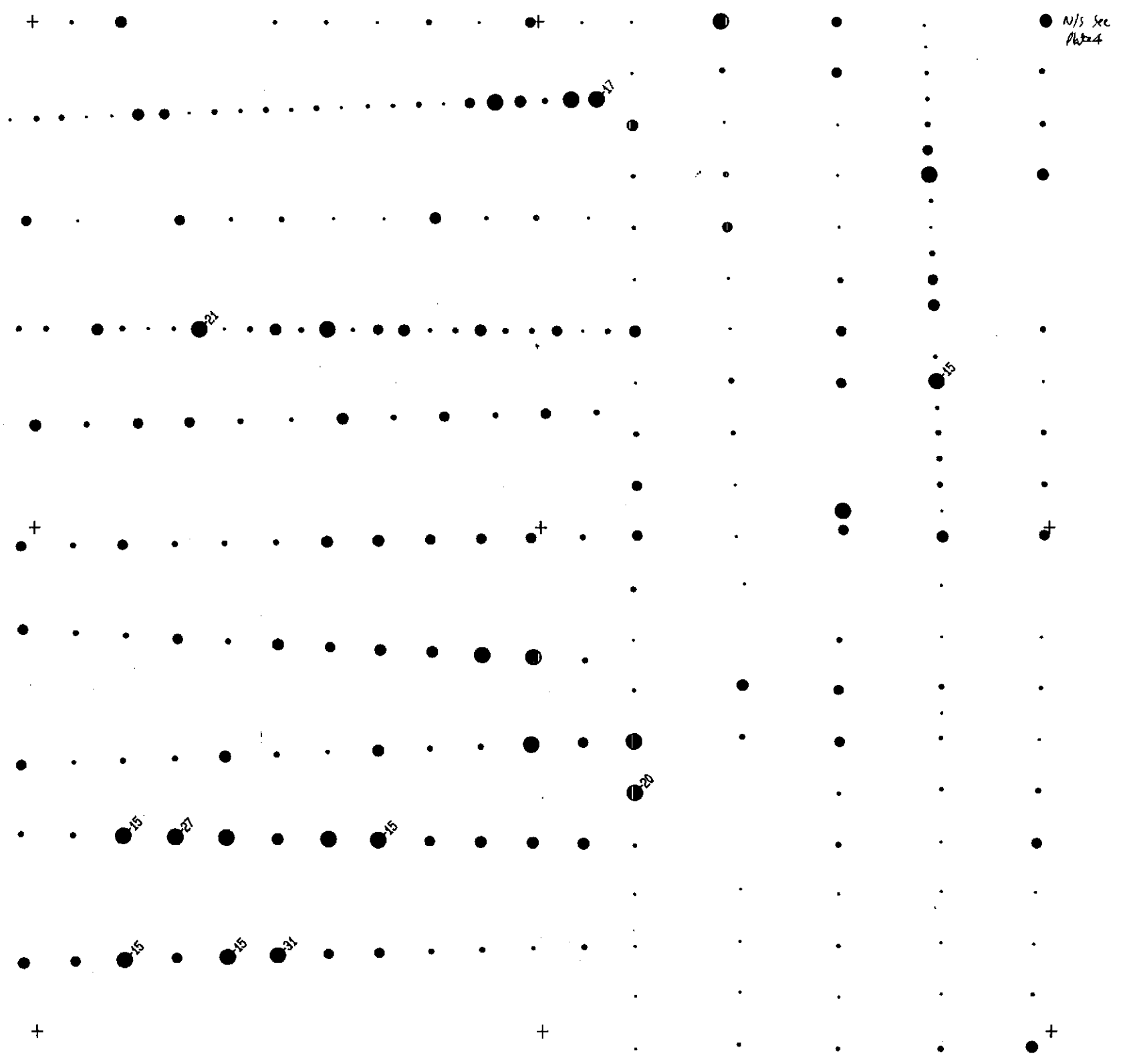
1000 W

0 E

0 N

1000 S

2000 S



N/S Sec
R/W 4

		LEAD (ppm)	
		LIP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE		Project No.	NTS 93N/IE
BP RESOURCES CANADA LIMITED		Date	JULY 1990
		Report No.	Scale 1:10000
			Fig. No. 19

2000 W

1000 W

0 E

0 N

1000 S

2000 S



		<ul style="list-style-type: none"> > 1.7 ≤ 1.7 ≤ 1.5 ≤ 1.3 ≤ 1.1 ≤ .9 ≤ .7 		MAGNESIUM (%)	
				LIP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE		Project No.	NTS 93N/1E	Scale 1:10000	
BP RESOURCES CANADA LIMITED		Date JULY 1990	Report No.	Fig. No. 20	

2000 W

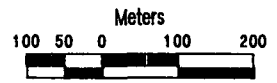
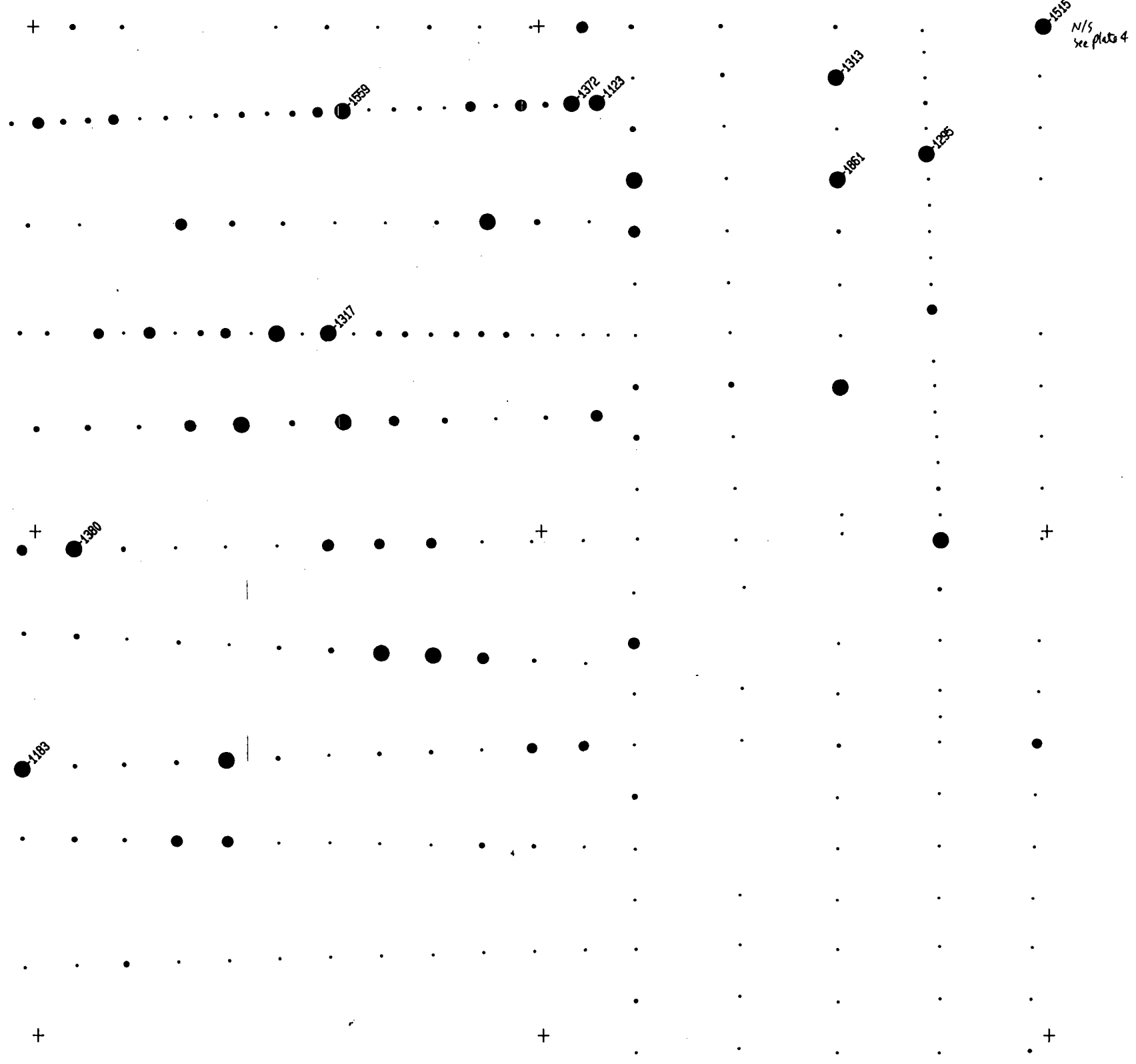
1000 W

0 E

0 N

1000 S

2000 S



- > 1100
- ≤ 1100
- ≤ 900
- ≤ 750
- ≤ 650
- ≤ 550
- ≤ 400

BP RESOURCES CANADA LIMITED

MANGANESE (ppm)

LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS 93N/1E	Scale 1:10000
Date JULY 1990	Report No.	Fig. No. 2/

2000 W

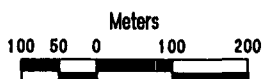
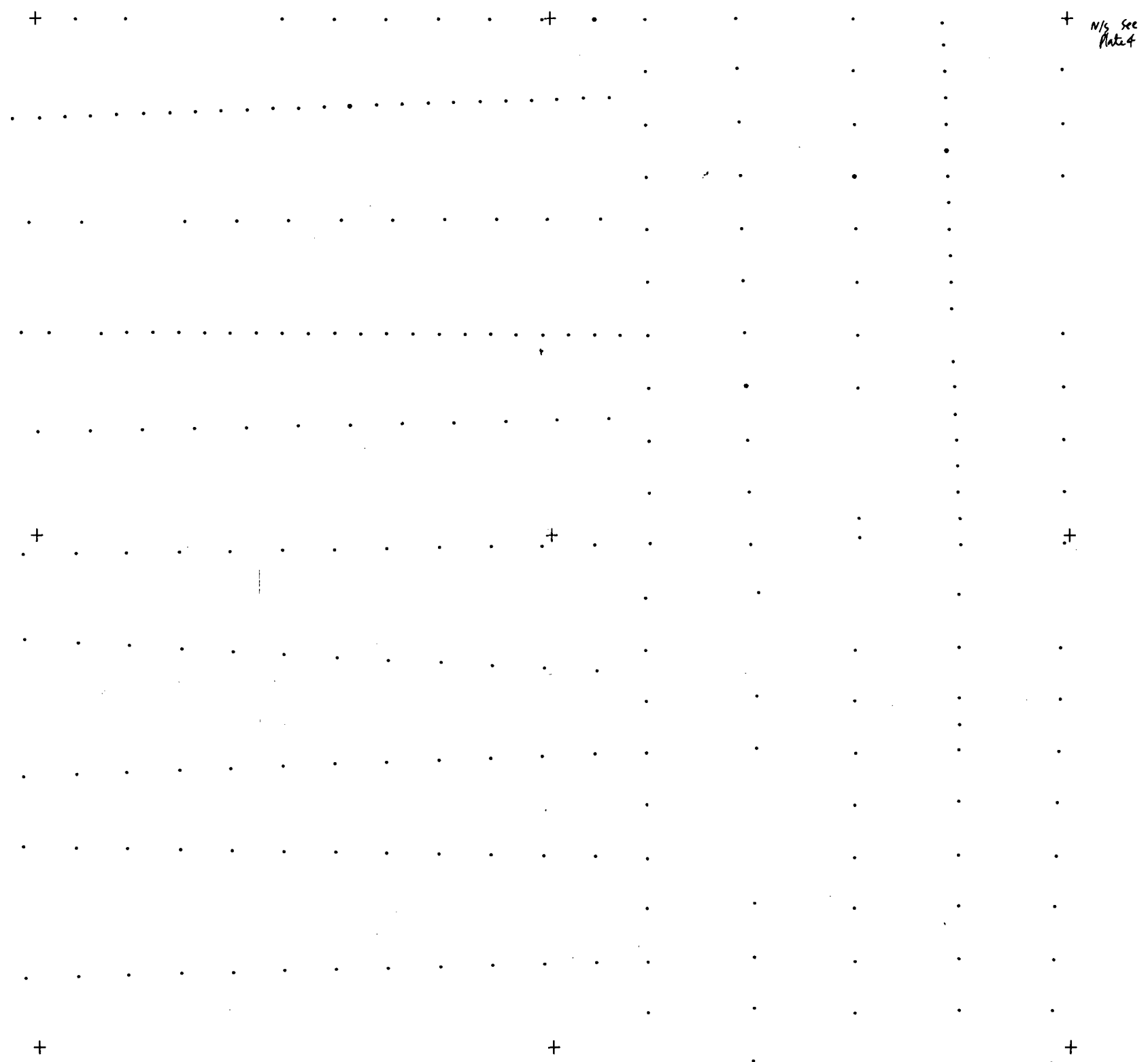
1000 W

0 E

0 N

1000 S

2000 S



- 5 < ● > 6
- 4 < ● > 5
- 3 < ● > 4
- 2 < ● > 3
- 1 < ● > 2
- 0 < ● > 1

MOLYBDENUM (ppm)

LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS	Scale
Date	93N/1E	1:10000
	Report No.	Fig. No.
JULY 1990		22

BP RESOURCES CANADA LIMITED

2000 W

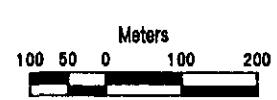
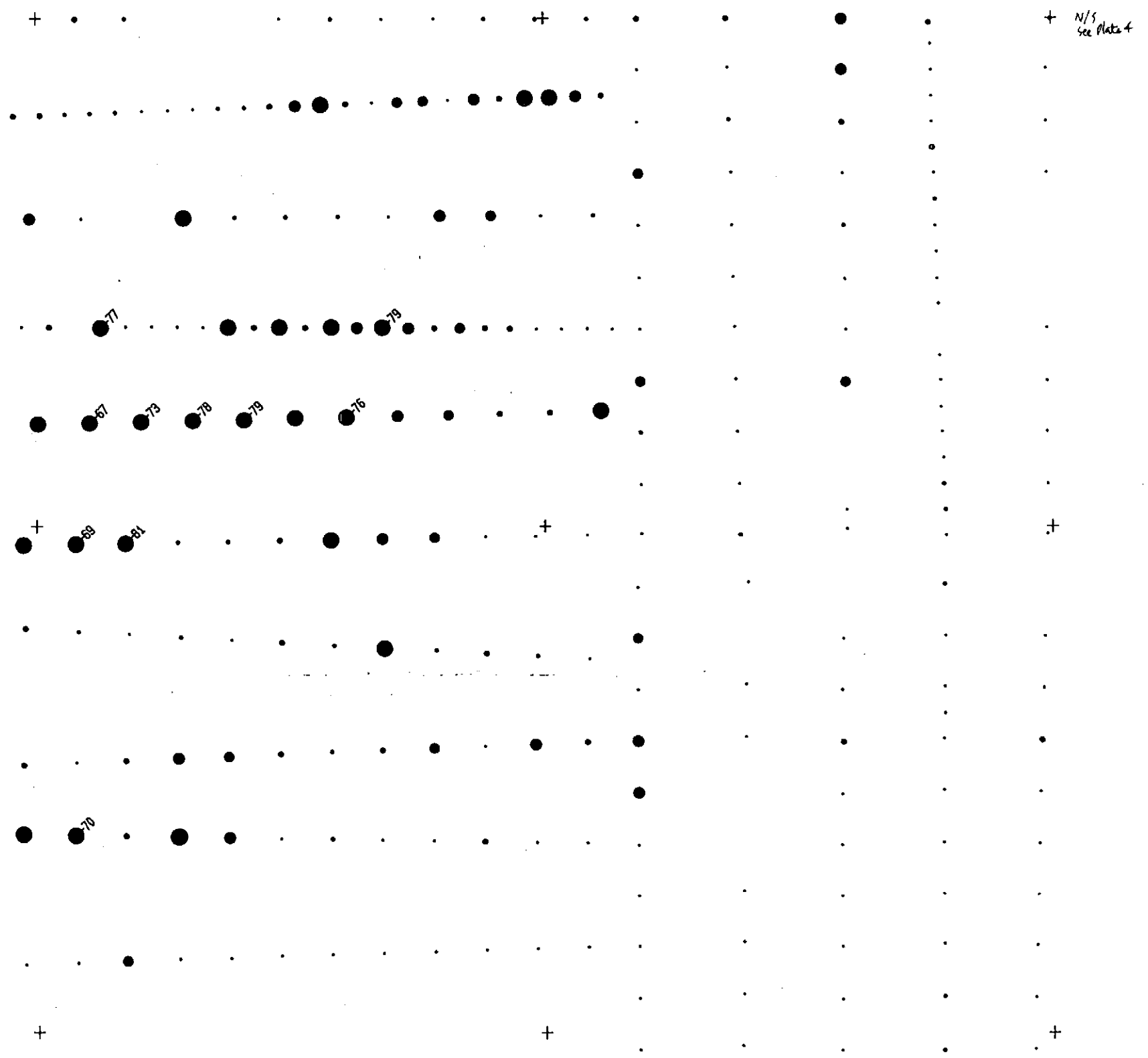
1000 W

0 E

0 N

1000 S

2000 S



- > 65
- ≤ 55
- ≤ 45
- ≤ 40
- ≤ 35
- ≤ 30

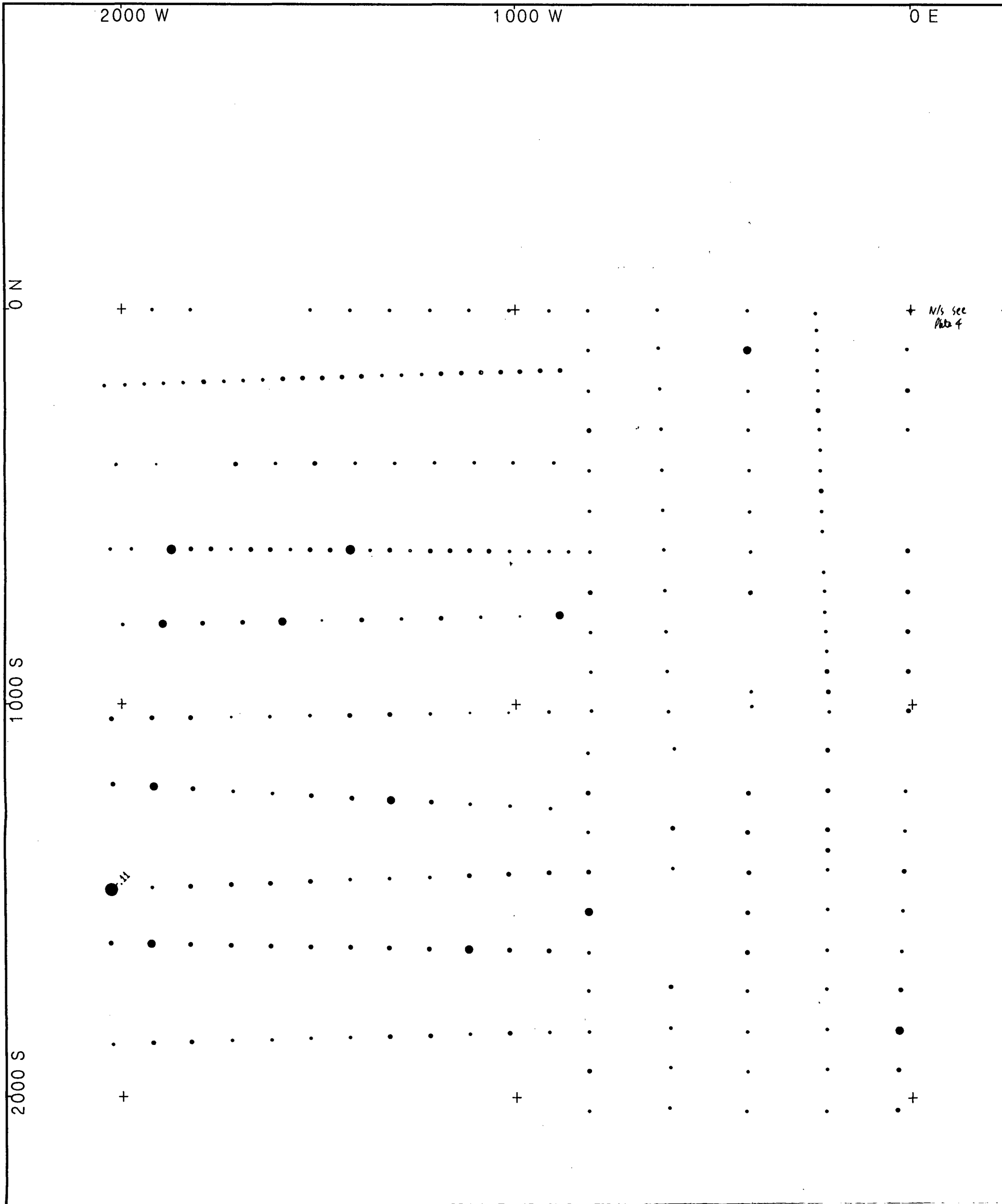
NICKEL (ppm)

LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS 93N/1E	Scale 1:10000
Date JULY 1990	Report No.	Fig. No. 23

BP RESOURCES CANADA LIMITED



		POTASSIUM (%)	
		LIP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE			
Project No.	NTS	Scale	1:10000
Date	JULY 1990	Report No.	Fig. No. 25
BP RESOURCES CANADA LIMITED		New Horizon Software.	

- > .1
- .09 < <= .1
- .08 < <= .09
- .06 < <= .08
- .04 < <= .06
- .02 < <= .04
- 0 < <= .02

2000 W

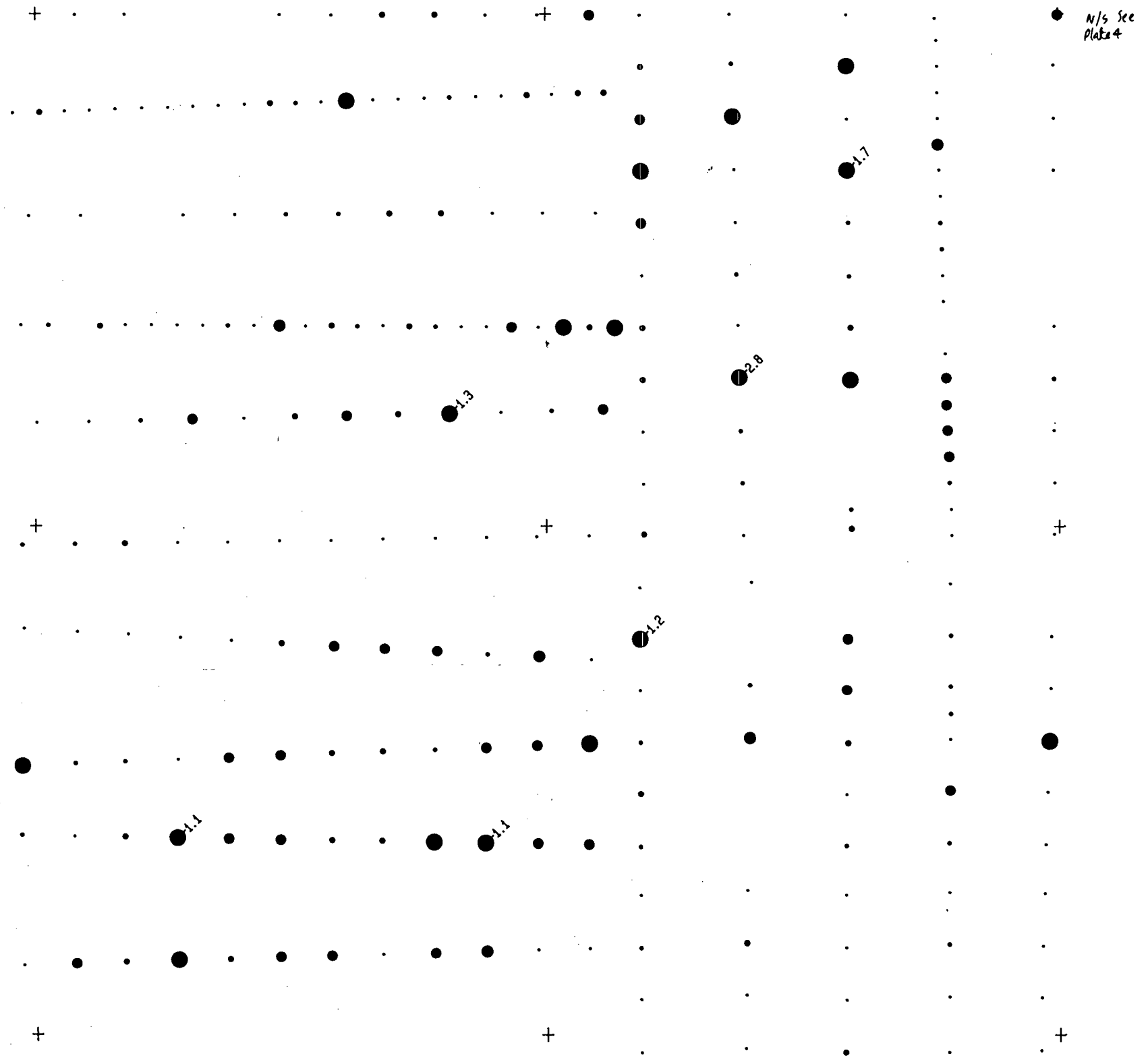
1000 W

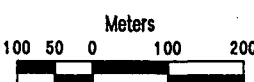
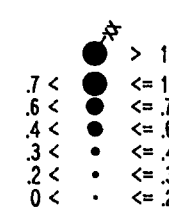
0 E

0 N

1000 S

2000 S



		SILVER (ppm)		
		LIP #1 M.C.		
SOIL GEOCHEMICAL SURVEY - JUNE				
Project No.	NTS	93N/1E	Scale	1:10000
Date	JULY 1990	Report No.	Fig. No.	26
BP RESOURCES CANADA LIMITED				New Horizon Software.

2000 W

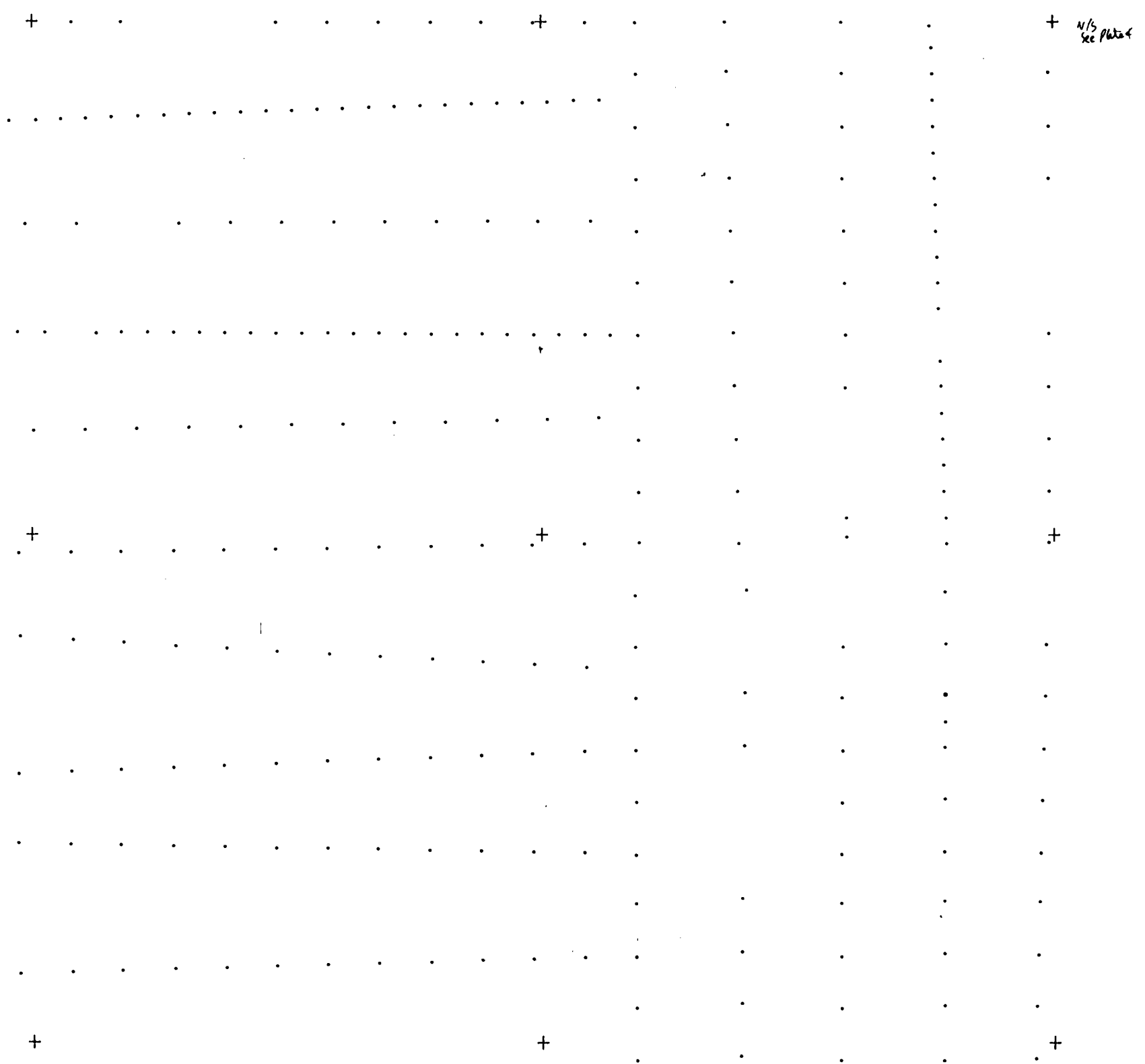
1000 W

0 E

0 N

1000 S

2000 S



	<ul style="list-style-type: none"> ● > .06 ● ≤ .06 ● ≤ .05 ● ≤ .04 ● ≤ .03 ● ≤ .02 ● ≤ .01 	SODIUM (%)		
		LIP #1 M.C.		
SOIL GEOCHEMICAL SURVEY - JUNE				
Project No.	NTS	93N/1E	Scale	1:10000
Date	JULY 1990	Report No.	Fig. No.	27
BP RESOURCES CANADA LIMITED				

2000 W

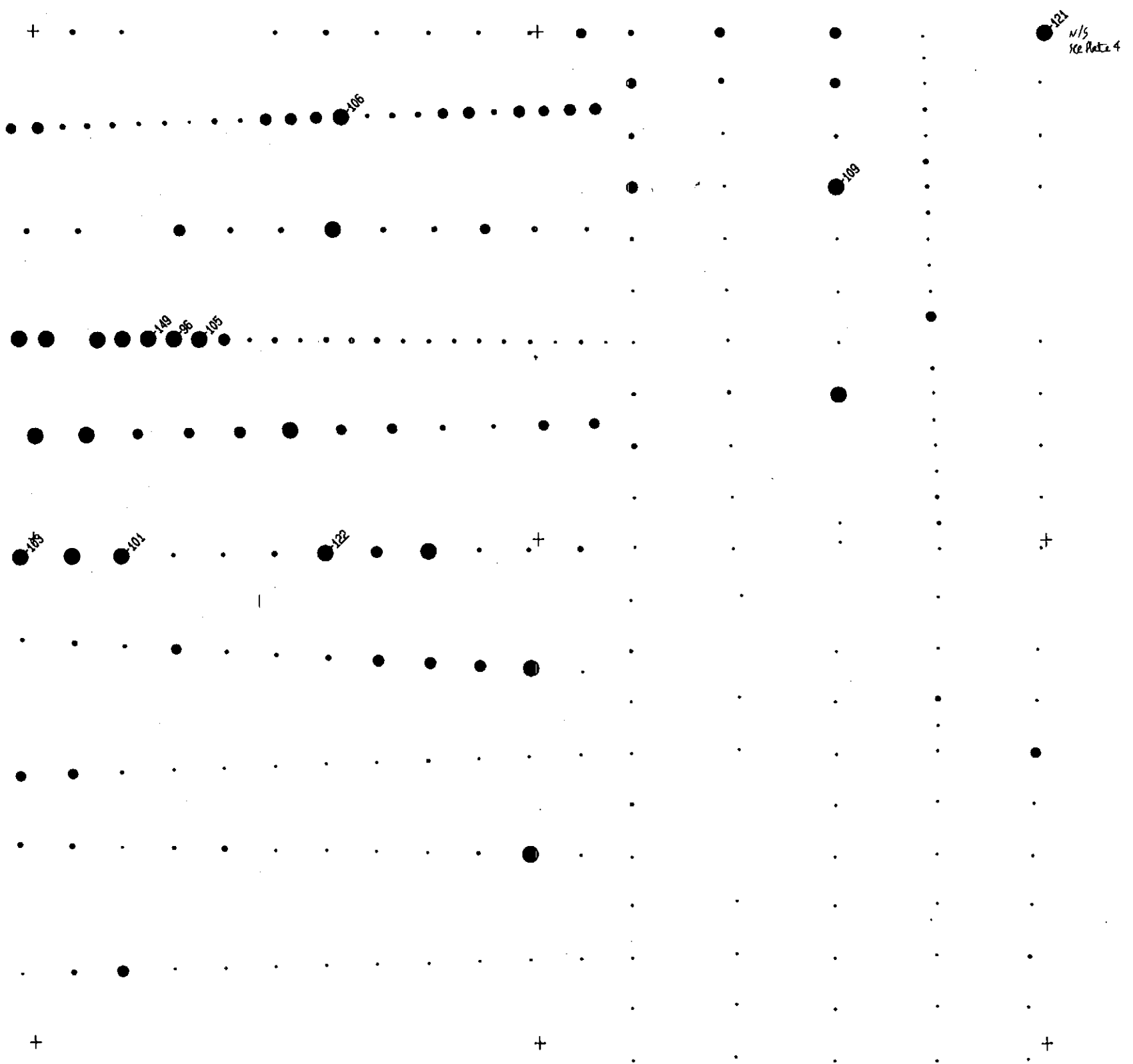
1000 W

0 E

0 N

1000 S

2000 S



		STRONTIUM (ppm) LIP #1 M.C. SOIL GEOCHEMICAL SURVEY - JUNE	
		Project No.	NFS
Date	JULY 1990	Report No.	Fig. No. 28
BP RESOURCES CANADA LIMITED		New Horizon Software.	

2000 W

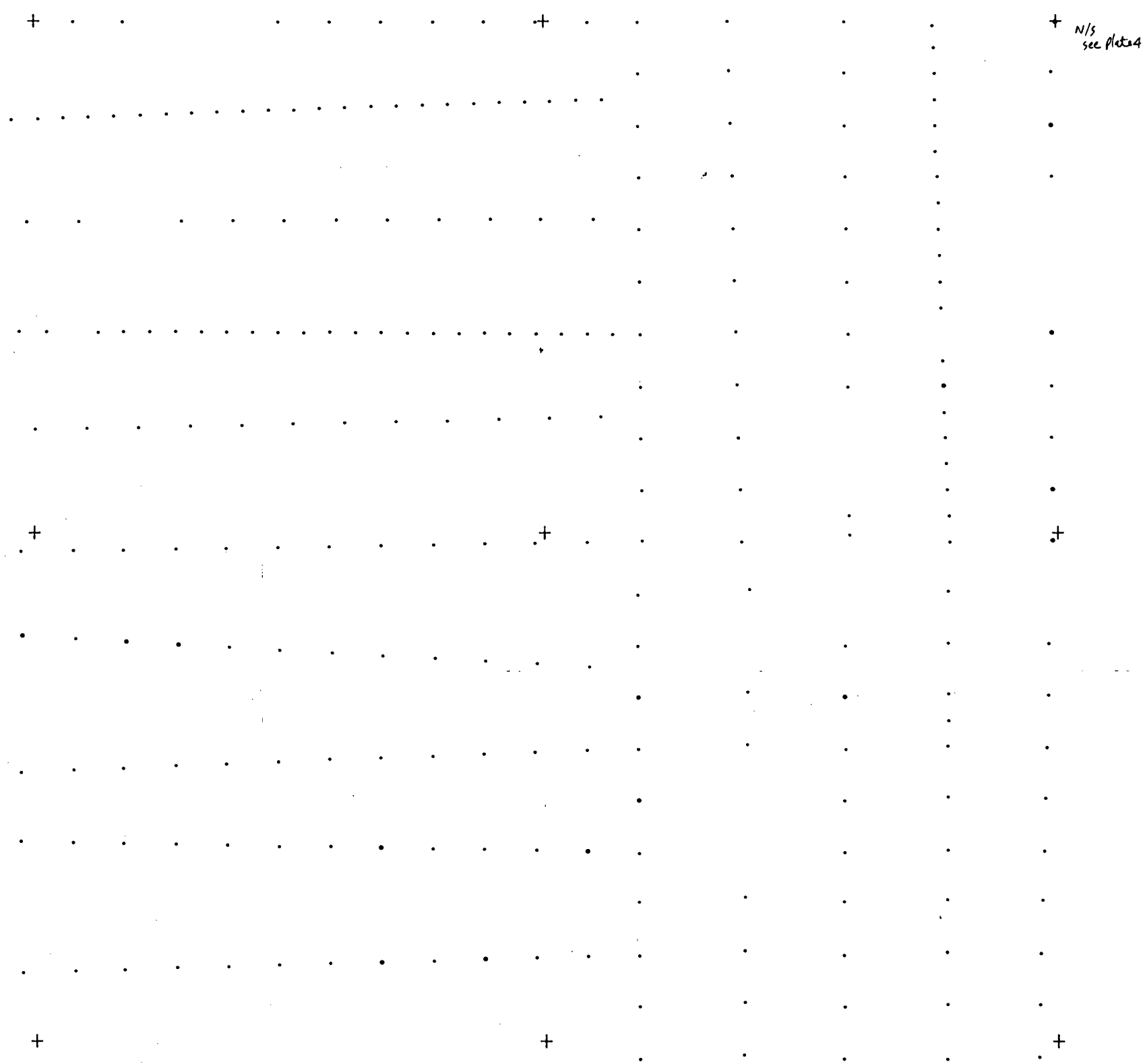
1000 W

0 E

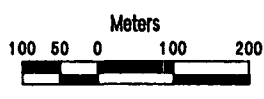
0 N

1000 S

2000 S



N/S
see plate 4



- > 6
- ≤ 6
- ≤ 5
- ≤ 4
- ≤ 3
- ≤ 2
- ≤ 1

THORIUM (ppm)

LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS	Scale
	93N/E	1:10000
Date	Report No.	Fig. No.
JULY 1990		29

BP RESOURCES CANADA LIMITED

2000 W

1000 W

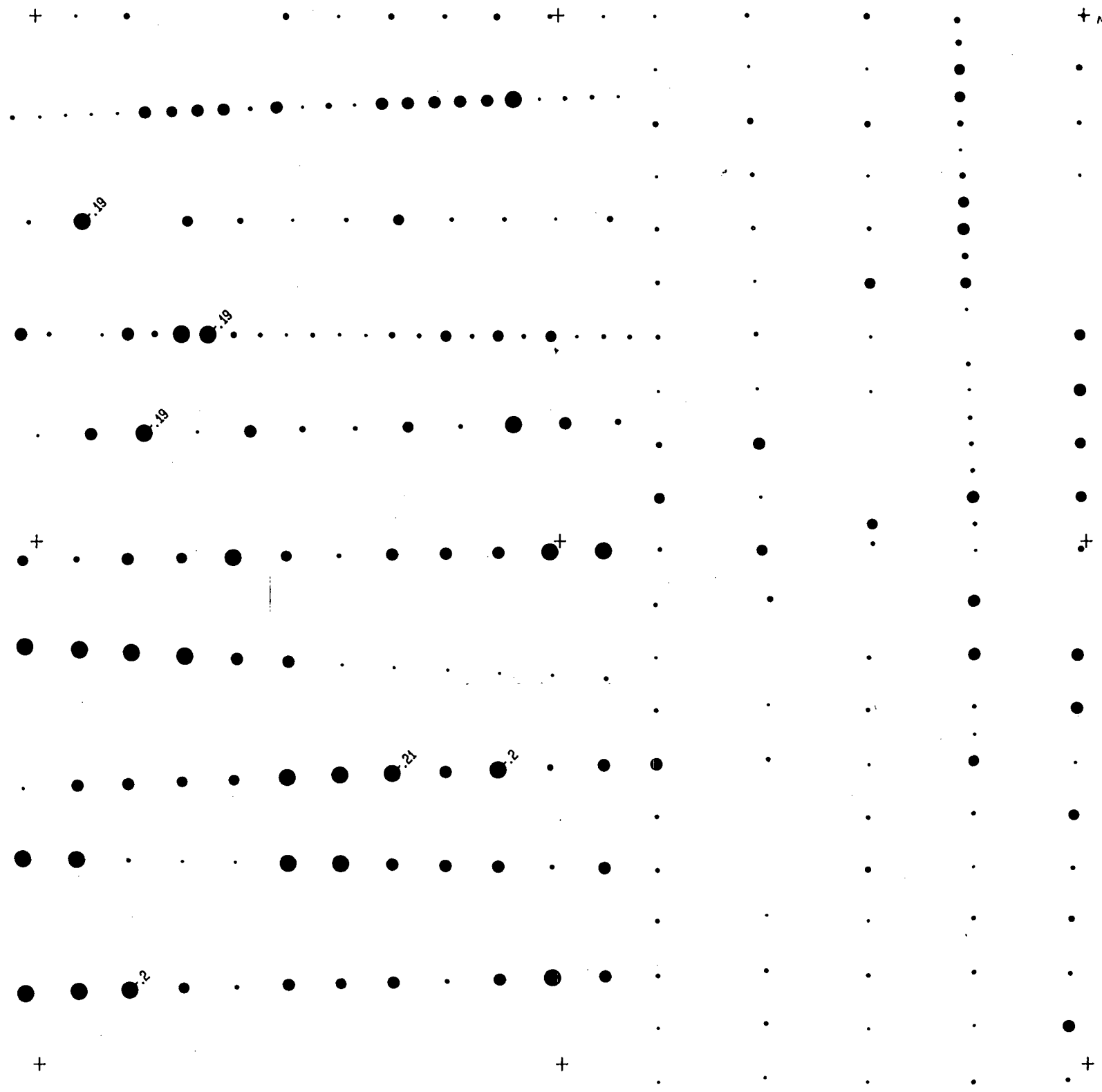
0 E

0 N

1000 S

2000 S

+ N/S see plate 4



		<p style="text-align: center;">● > .18</p> <p style="text-align: center;">● ≤ .18</p> <p style="text-align: center;">● ≤ .16</p> <p style="text-align: center;">● ≤ .13</p> <p style="text-align: center;">● ≤ .12</p> <p style="text-align: center;">● ≤ .11</p> <p style="text-align: center;">● ≤ .09</p>	
		<p style="text-align: center;">TITANIUM (%)</p> <p style="text-align: center;">LIP #1 M.C.</p> <p style="text-align: center;">SOIL GEOCHEMICAL SURVEY - JUNE</p>	
Project No.	NTS	93N/1E	Scale 1:10000
Date	JULY 1990	Report No.	Fig. No. 30
BP RESOURCES CANADA LIMITED			

2000 W

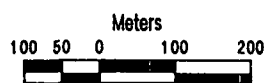
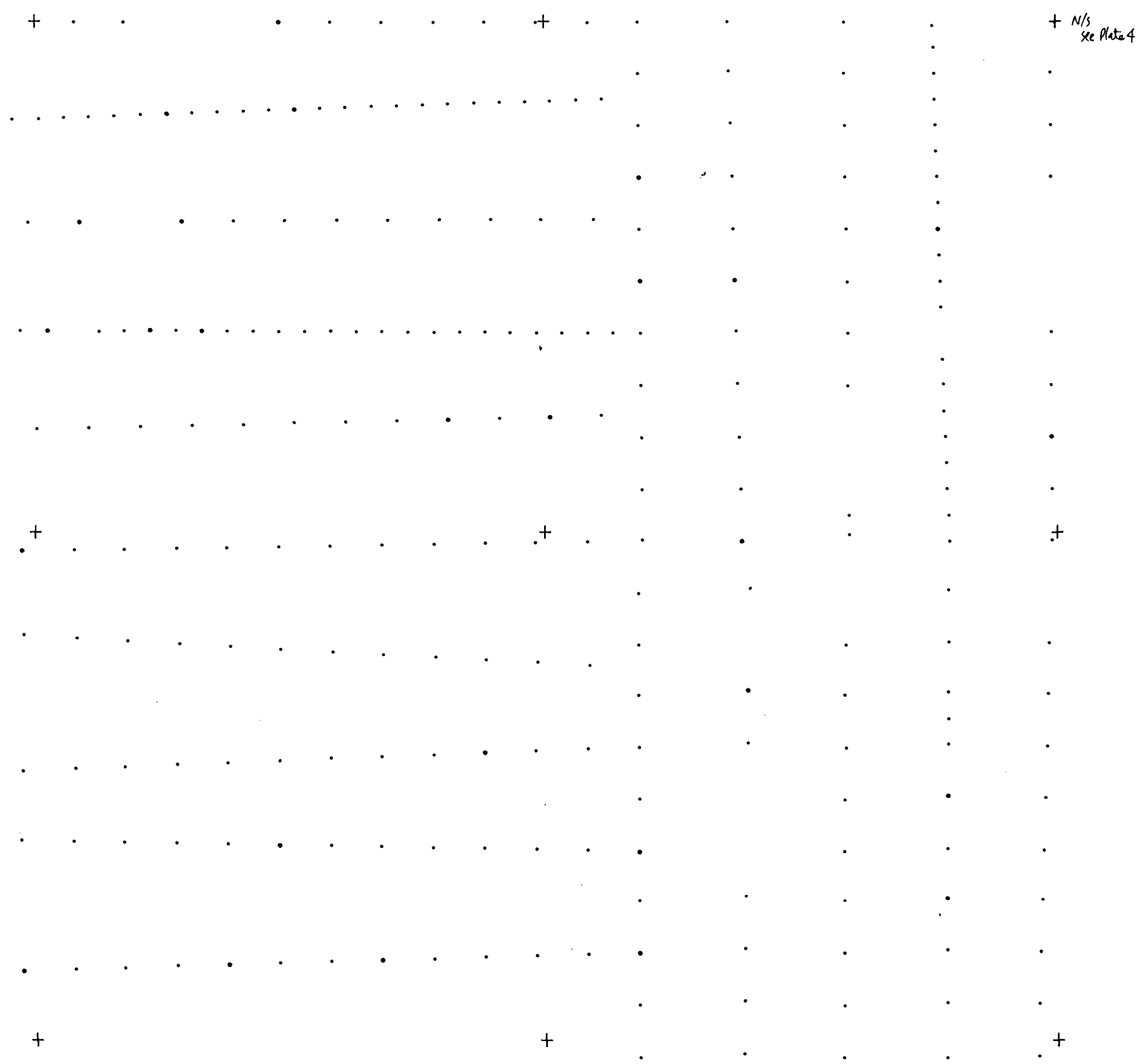
1000 W

0 E

0 N

1000 S

2000 S



- > 6
- ≤ 6
- ≤ 5
- ≤ 4
- ≤ 3
- ≤ 2
- ≤ 1

TUNGSTEN (ppm)

LIP #1 M.C.

SOIL GEOCHEMICAL SURVEY - JUNE

Project No.	NTS	Scale
Date	93N/1E	1:10000
JULY 1990	Report No.	Fig. No. 31

BP RESOURCES CANADA LIMITED

2000 W

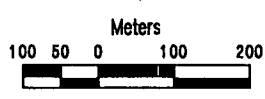
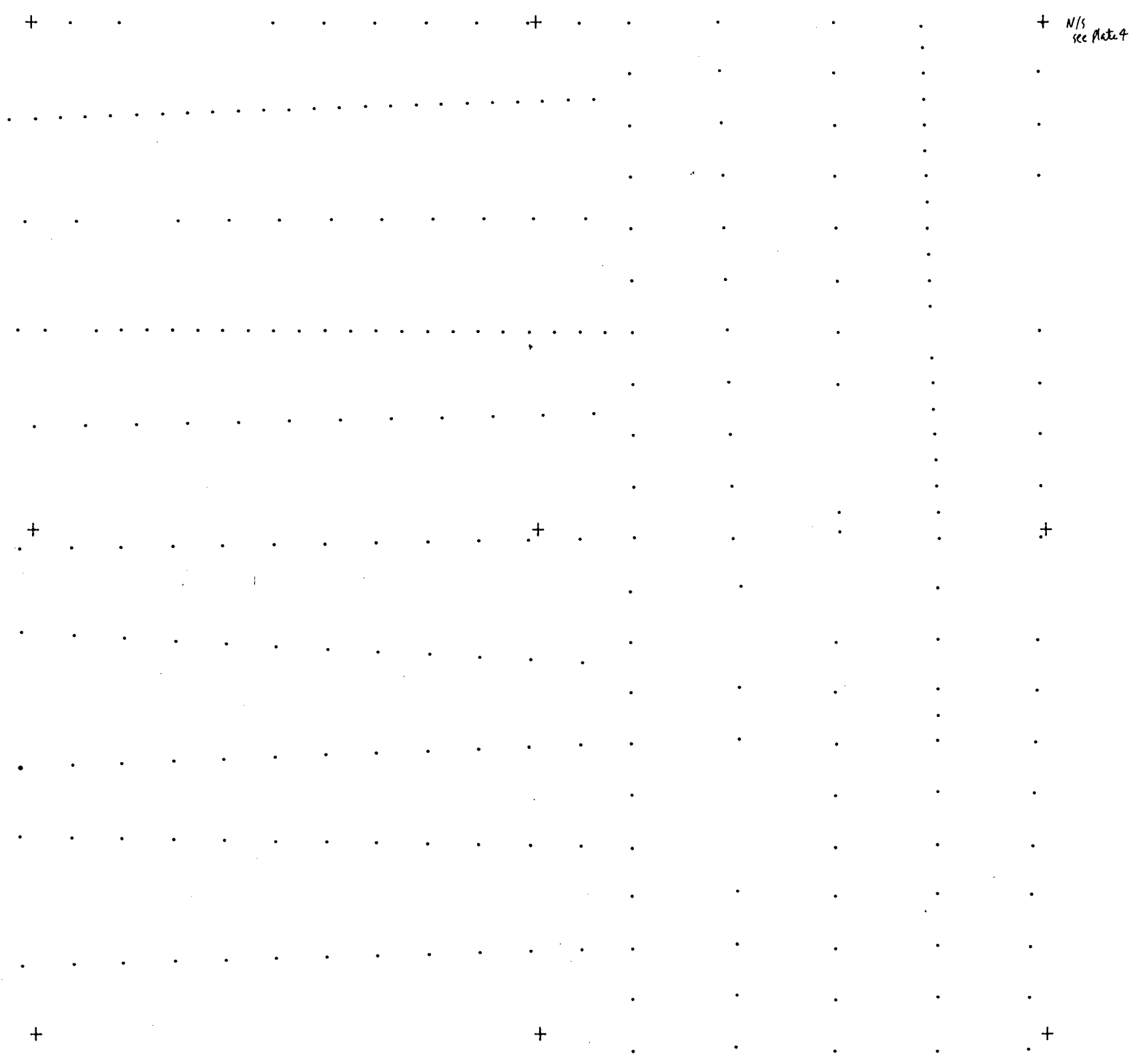
1000 W

0 E

0 N

1000 S

2000 S



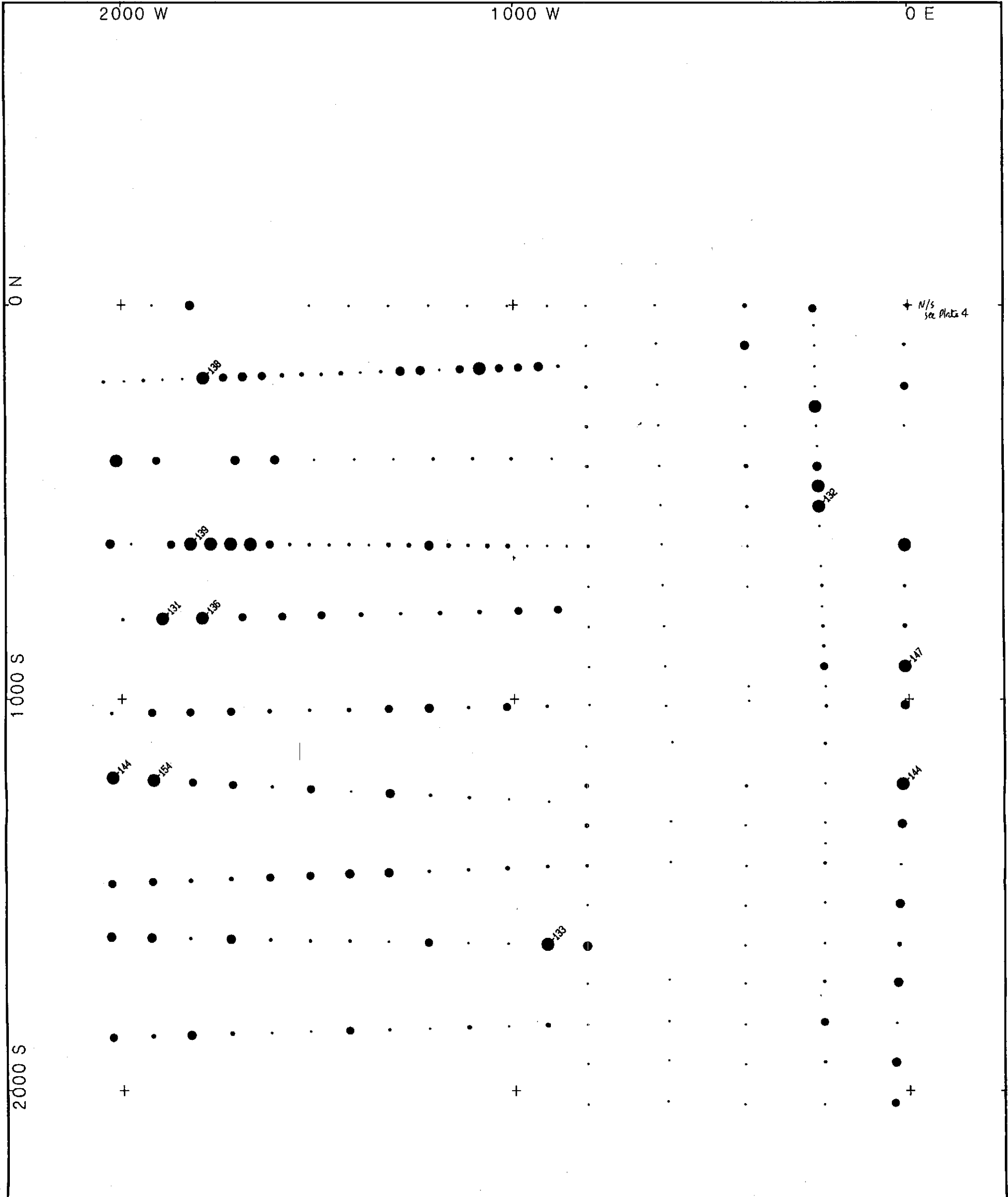
- > 30
- 25 < ≤ 30
- 20 < ≤ 25
- 15 < ≤ 20
- 10 < ≤ 15
- 5 < ≤ 10
- 0 < ≤ 5

URANIUM (ppm)

LIP #1 M.C.

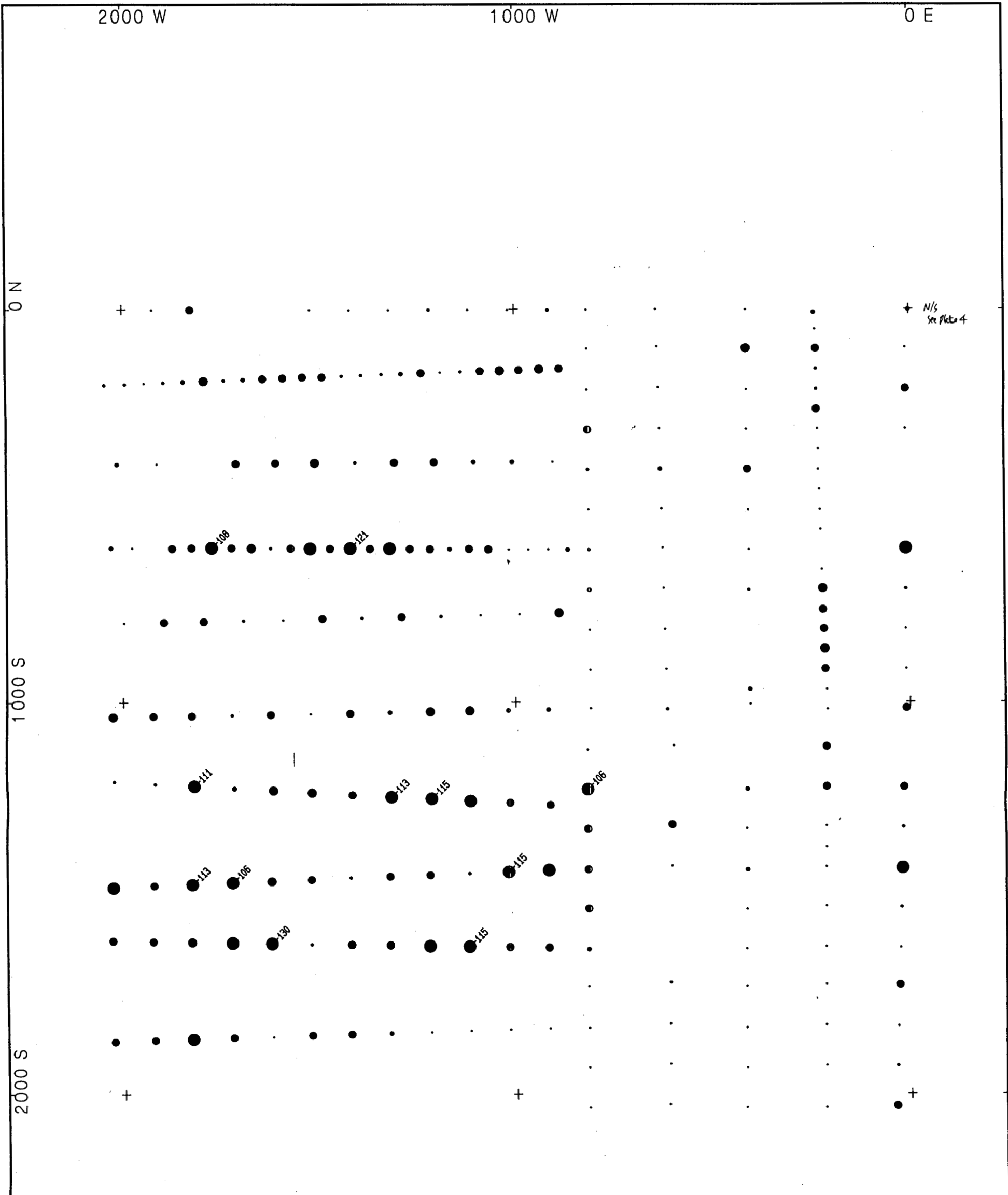
SOIL GEOCHEMICAL SURVEY - JUNE

BP RESOURCES CANADA LIMITED		
Project No.	NTS 93N/1E	Scale 1:10000
Date JULY 1990	Report No.	Fig. No. 32



		VANADIUM (ppm)	
		LP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE			
Project No.	NTS	93N/1E	Scale 1:10000
Date	JULY 1990	Report No.	Fig. No. 33
BP RESOURCES CANADA LIMITED			

- > 130
- 125 < ≤ 130
- 115 < ≤ 125
- 105 < ≤ 115
- 100 < ≤ 105
- 90 < ≤ 100
- 0 < ≤ 90

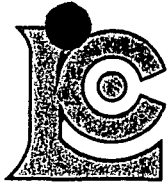


		ZINC (ppm)	
		LIP #1 M.C.	
SOIL GEOCHEMICAL SURVEY - JUNE			
Project No.	NTS	93N/1E	Scale 1:10000
Date	JULY 1990	Report No.	Fig. No. 34
BP RESOURCES CANADA LIMITED		New Horizon Software.	

- > 105
- ≤ 105
- ≤ 92
- ≤ 85
- ≤ 70
- ≤ 65
- ≤ 60

APPENDIX 1

CHEMEX CERTIFICATES



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221

BRUASET, R. U.

5851 HALIFAX ST.
BURNABY, BC
V5B 2P4

A9017600

Comments:

CERTIFICATE

A9017600

BRUASET, R. U.

Project:
P.O. #:

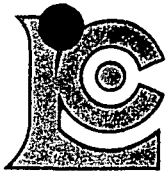
Samples submitted to our lab in Vancouver, BC.
This report was printed on 8-JUL-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	93	Dry, sieve to -80 mesh

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
101	93	Au ppb: Fuse 10 g sample	FA-NAA	1	10000



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BRUASET, R. U.

5851 HALIFAX ST.
BURNABY, BC
V5B 2P4

Page Number : 1
Total Pages : 3
Invoice Date : 8-JUL-90
Invoice No. : I-9017600
P.O. Number :

Project :
Comments :

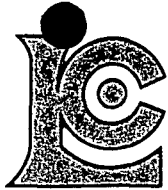
CERTIFICATE OF ANALYSIS

A9017600

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb																		
L90-001S	201 --	30																		
L90-002S	201 --	13																		
L90-003S	201 --	36																		
L90-004S	201 --	383																		
L90-005S	201 --	4																		
L90-006S	201 --	10																		
L90-007S	201 --	24																		
L90-008S	201 --	20																		
L90-010S	201 --	8																		
L90-011S	201 --	17																		
L90-012S	201 --	2																		
L90-013S	201 --	5																		
L90-014S	201 --	16																		
L90-015S	201 --	10																		
L90-016S	201 --	9																		
L90-017S	201 --	11																		
L90-018S	201 --	7																		
L90-019S	201 --	14																		
L90-020S	201 --	39																		
L90-021S	201 --	14																		
L90-022S	201 --	5																		
L90-023S	201 --	6																		
L90-024S	201 --	11																		
L90-025S	201 --	24																		
L90-026S	201 --	62																		
L90-027S	201 --	48																		
L90-028S	201 --	24																		
L90-029S	201 --	6																		
L90-032S	201 --	8																		
L90-033S	201 --	4																		
L90-036S	201 --	6																		
L90-037S	201 --	2																		
L90-038S	201 --	7																		
L90-039S	201 --	77																		
L90-040S	201 --	8																		
L90-041S	201 --	17																		
L90-042S	201 --	3																		
L90-043S	201 --	7																		
L90-044S	201 --	8																		
L90-045S	201 --	7																		

CERTIFICATION:

Theresa Vornh



Chemex Labs Ltd.

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TO: BRUASET, R. U.

5851 HALIFAX ST.
BURNABY, BC
V5B 2P4

Project :
Comments :

Page Number : 2
Total Pages : 3
Invoice Date : 8-JUL-90
Invoice No. : I-9017600
P.O. Number :

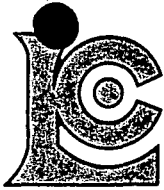
CERTIFICATE OF ANALYSIS

A9017600

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb																		
L90-047S	201 --	8																		
L90-048S	201 --	9																		
L90-049S	201 --	9																		
L90-050S	201 --	19																		
L90-051S	201 --	9																		
L90-052S	201 --	22																		
L90-053S	201 --	14																		
L90-054S	201 --	12																		
L90-055S	201 --	4																		
L90-056S	201 --	11																		
L90-057S	201 --	3																		
L90-059S	201 --	5																		
L90-060S	201 --	8																		
L90-061S	201 --	4																		
L90-062S	201 --	5																		
L90-063S	201 --	5																		
L90-064S	201 --	12																		
L90-065S	201 --	7																		
L90-066S	201 --	7																		
L90-067S	201 --	12																		
L90-068S	201 --	12																		
L90-069S	201 --	7																		
L90-070S	201 --	11																		
L90-071S	201 --	15																		
L90-072S	201 --	7																		
L90-073S	201 --	6																		
L90-074S	201 --	8																		
L90-075S	201 --	4																		
L90-076S	201 --	7																		
L90-077S	201 --	11																		
L90-078S	201 --	5																		
L90-079S	201 --	8																		
L90-080S	201 --	5																		
L90-081S	201 --	7																		
L90-082S	201 --	12																		
L90-083S	201 --	3																		
L90-086S	201 --	5																		
L90-087S	201 --	8																		
L90-089S	201 --	21																		
L90-090S	201 --	10																		

CERTIFICATION:

John Viner



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V5B 2P4

Page Number: 3
Total Pages: 3
Invoice Date: 8-JUL-90
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P.O. Number:

Project:
Comments:

CERTIFICATE OF ANALYSIS

A9017600

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb									
L90-091S	201 --	8									
L90-092S	201 --	7									
L90-093S	201 --	12									
L90-094S	201 --	9									
L90-095S	201 --	9									
L90-096S	201 --	11									
L90-097S	201 --	14									
L90-098S	201 --	7									
L90-099S	201 --	3									
L90-100S	201 --	111									
L90-101S	201 --	44									
L90-105S	201 --	12									
L90-108S	201 --	5									

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V5B 2P4

A9017581

Comments:

CERTIFICATE

A9017581

BRUASET, R. U.

Project:
P.O. #:

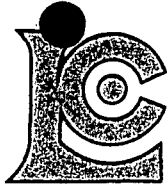
Samples submitted to our lab in Vancouver, BC.
This report was printed on 8-JUL-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	67	Dry, sieve to -80 mesh

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
101	67	Au ppb: Fuse 10 g sample	FA-NAA	1	10000



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British Columbia, Canada V7J 2C1
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BURNABY, BC
V5B 2P4

Project :
Comments :

Page Number : 1
Total Pages : 2
Invoice Date : 8-JUL-90
Invoice No. : I-9017581
P.O. Number :

CERTIFICATE OF ANALYSIS

A9017581

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb											
L90-110S	201 --	6											
L90-111S	201 --	6											
L90-112S	201 --	168											
L90-113S	201 --	9											
L90-115S	201 --	57											
L90-116S	201 --	8											
L90-117S	201 --	2											
L90-120S	201 --	228											
L90-121S	201 --	9											
L90-123S	201 --	4											
L90-124S	201 --	8											
L90-125S	201 --	3											
L90-126S	201 --	5											
L90-127S	201 --	4											
L90-128S	201 --	< 1											
L90-129S	201 --	15											
L90-130S	201 --	4											
L90-131S	201 --	401											
L90-132S	201 --	5											
L90-133S	201 --	6											
L90-134S	201 --	8											
L90-135S	201 --	23											
L90-136S	201 --	19											
L90-137S	201 --	2											
L90-139S	201 --	2											
L90-140S	201 --	2											
L90-141S	201 --	3											
L90-142S	201 --	4											
L90-143S	201 --	3											
L90-144S	201 --	12											
L90-145S	201 --	9											
L90-146S	201 --	6											
L90-147S	201 --	7											
L90-149S	201 --	6											
L90-150S	201 --	14											
L90-151S	201 --	9											
L90-152S	201 --	65											
L90-153S	201 --	17											
L90-154S	201 --	7											
L90-155S	201 --	20											

CERTIFICATION:



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BURNABY, BC
V5B 2P4

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Total Pages: 2
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Invoice No.: I-9017581
P.O. Number:

Project:
Comments:

CERTIFICATE OF ANALYSIS

A9017581

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb									
L90-156S	201 --	6									
L90-157S	201 --	22									
L90-158S	201 --	4									
L90-159S	201 --	11									
L90-160S	201 --	14									
L90-161S	201 --	11									
L90-162S	201 --	11									
L90-163S	201 --	5									
L90-164S	201 --	9									
L90-165S	201 --	48									
L90-166S	201 --	4									
L90-167S	201 --	2									
L90-168S	201 --	3									
L90-170S	201 --	5									
L90-172S	201 --	5									
L90-173S	201 --	2									
L90-174S	201 --	3									
L90-175S	201 --	1									
L90-179S	201 --	16									
L90-180S	201 --	1									
L90-181S	201 --	5									
L90-182S	201 --	4									
L90-183S	201 --	5									
L90-184S	201 --	7									
L90-185S	201 --	83									
L90-186S	201 --	11									
L90-187S	201 --	2									

CERTIFICATION:

Mark Vank



Chemex Labs Ltd.

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British Columbia, Canada . V7J 2C1
PHONE: 604-984-0221

BRUASET, R. U.
5851 HALIFAX ST.
BURNABY, BC
V5B 2P4

A9018121

Comments:

CERTIFICATE

A9018121

BRUASET, R. U.

Project:
P.O. #:

Samples submitted to our lab in Vancouver, BC.
This report was printed on 14-JUL-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	89	Dry, sieve to -80 mesh

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
101	89	Au ppb: Fuse 10 g sample	FA-NAA	1	10000



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 PHONE: 604-984-0221

To: BRUASET, R. U.
 5851 HALIFAX ST.
 BURNABY, BC
 V5B 2P4

Page Number: 1
 Total Pages: 3
 Invoice Date: 13-JUL-90
 Invoice No.: I-9018121
 P.O. Number:

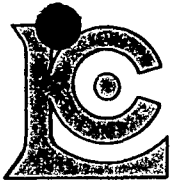
Project:
 Comments:

CERTIFICATE OF ANALYSIS

A9018121

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb										
L90-188S	201 --	30										
L90-189S	201 --	11										
L90-193S	201 --	2										
L90-194S	201 --	5										
L90-195S	201 --	12										
L90-196S	201 --	41										
L90-197S	201 --	5										
L90-198S	201 --	3										
L90-199S	201 --	5										
L90-200S	201 --	4										
L90-201S	201 --	3										
L90-202S	201 --	3										
L90-203S	201 --	2										
L90-204S	201 --	11										
L90-205S	201 --	1										
L90-206S	201 --	1										
L90-207S	201 --	1										
L90-208S	201 --	1										
L90-209S	201 --	2										
L90-211S	201 --	17										
L90-212S	201 --	17										
L90-213S	201 --	12										
L90-214S	201 --	6										
L90-215S	201 --	10										
L90-216S	201 --	1										
L90-217S	201 --	1										
L90-218S	201 --	12										
L90-219S	201 --	14										
L90-220S	201 --	2										
L90-221S	201 --	< 1										
L90-222S	201 --	2										
L90-223S	201 --	4										
L90-224S	201 --	< 1										
L90-225S	201 --	2										
L90-227S	201 --	4										
L90-228S	201 --	5										
L90-229S	201 --	2										
L90-230S	201 --	< 1										
L90-231S	201 --	2										
L90-232S	201 --	2										

CERTIFICATION: _____



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212 Brooksbank Ave., North Vancouver
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Total Pages: 3
Invoice Date: 13-JUL-90
Invoice No.: I-9018121
P.O. Number:

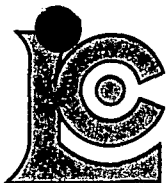
Project:
Comments:

CERTIFICATE OF ANALYSIS

A9018121

SAMPLE DESCRIPTION	PREP CODE	Au NAA ppb									
L90-278S	201 --	5									
L90-280S	201 --	2									
L90-282S	201 --	3									
L90-283S	201 --	< 1									
L90-284S	201 --	17									
L90-285S	201 --	6									
L90-287S	201 --	2									
L90-288S	201 --	2									
L90-289S	201 --	6									

CERTIFICATION: _____



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To: BRUASET, R. U.
5851 HALIFAX ST.
BURNABY, BC
V5B 2P4

A9018629

Comments:

CERTIFICATE

A9018629

BRUASET, R. U.

Project: LIP
P.O.#: NONE

Samples submitted to our lab in Vancouver, BC.
This report was printed on 2-AUG-90.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	5	Geochem ring to approx 150 mesh Crush and split (0-10 pounds)
294	5	

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
101	5	Au ppb: Fuse 10 g sample	FA-NAA	1	10000

APPENDIX 2

ACME CERTIFICATES

GEOCHEMICAL ANALYSIS CERTIFICATE

BP Resources Canada Ltd. File # 90-2377 Page 1

700 - 890 W. Pender St., Vancouver BC V6B 4W3 1989

(Detection limit given in Acme price list is 2 ppm)

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
L90-001S	1	64	12	59	.2	28	23	948	4.59	7	5	ND	1	40	.2	2	2	99	.69	.110	5	76	.91	82	.08	2	2.00	.01	.04	1
L90-002S	1	66	3	45	.1	33	13	338	3.50	3	5	ND	1	45	.7	2	6	81	.65	.072	7	63	1.00	89	.11	2	2.14	.01	.05	1
L90-003S	1	59	7	72	.3	34	15	447	5.08	4	5	ND	1	44	.4	2	2	106	.55	.145	6	72	1.05	111	.14	3	2.40	.01	.05	1
RE L90-008S	1	61	7	47	.2	29	11	292	3.12	6	5	ND	1	43	.2	2	2	69	.71	.091	7	65	.87	55	.11	3	2.15	.01	.04	1
L90-004S	1	52	8	91	.5	27	13	274	4.35	4	5	ND	1	35	.6	2	2	96	.43	.105	7	60	.84	115	.11	2	2.29	.01	.04	1
L90-005S	1	37	8	73	.5	24	11	314	4.10	7	5	ND	1	29	.2	2	2	91	.39	.115	5	64	.74	68	.11	3	1.80	.01	.04	1
L90-006S	1	45	5	77	.5	24	14	309	5.30	10	5	ND	1	21	.6	2	2	90	.27	.250	6	60	.69	72	.10	2	2.85	.01	.04	1
L90-007S	1	40	15	87	.6	20	13	324	5.32	9	5	ND	2	20	.6	3	2	95	.26	.357	7	62	.61	79	.09	3	3.18	.01	.04	1
L90-008S	1	59	5	45	.2	26	11	277	2.98	4	5	ND	1	41	.2	2	2	66	.67	.086	7	63	.82	51	.10	2	2.09	.01	.04	1
L90-010S	1	62	11	52	.2	24	13	694	3.06	5	5	ND	1	69	.2	2	3	78	1.05	.076	6	66	.94	91	.08	2	1.84	.01	.04	1
L90-011S	1	33	10	56	.2	19	10	225	5.49	12	5	ND	1	29	.2	2	2	132	.38	.282	6	64	.58	83	.13	2	1.90	.01	.04	1
L90-012S	1	51	7	56	.3	27	16	322	5.80	7	5	ND	1	30	1.3	2	2	127	.49	.175	4	99	.87	58	.12	2	2.29	.01	.05	1
L90-013S	1	57	2	50	.3	23	15	264	5.68	11	5	ND	1	28	.2	2	2	121	.35	.103	5	68	.69	111	.14	2	2.26	.01	.04	2
L90-014S	1	61	6	53	.2	34	12	320	3.54	7	5	ND	1	45	.3	2	2	83	.58	.087	7	66	1.00	89	.13	2	2.06	.01	.04	1
L90-015S	1	68	13	51	.1	29	11	340	3.37	6	5	ND	1	42	.2	2	3	82	.61	.074	7	69	.94	64	.12	5	2.07	.01	.04	1
L90-016S	2	111	10	82	.7	37	26	1295	5.73	8	5	ND	1	52	1.2	2	4	127	.77	.130	8	88	.95	134	.08	2	2.81	.01	.06	1
L90-017S	1	71	7	62	.1	27	12	340	3.30	9	5	ND	1	40	.7	2	2	80	.56	.066	7	66	.88	63	.12	3	2.06	.01	.04	1
L90-018S	1	47	5	62	.1	29	13	406	3.26	5	5	ND	1	49	.3	2	2	86	.72	.067	6	64	1.14	78	.13	2	2.14	.01	.04	1
L90-019S	1	55	5	73	.2	27	14	322	3.97	8	5	ND	1	34	.5	2	2	90	.46	.067	7	66	.91	81	.13	2	2.71	.01	.04	1
L90-020S	1	53	2	58	.1	28	13	257	3.98	11	5	ND	1	31	.2	2	2	84	.38	.072	8	69	.76	93	.12	2	2.79	.01	.04	1
L90-021S	1	61	2	69	.2	36	15	343	5.04	7	5	ND	1	33	.9	2	2	108	.49	.173	4	87	1.00	92	.12	2	2.67	.01	.04	1
L90-022S	1	80	9	57	.2	47	18	445	4.23	5	5	ND	1	74	.6	2	2	102	.93	.105	6	140	1.51	72	.12	4	2.38	.01	.04	1
L90-023S	1	213	10	89	1.0	51	26	1313	6.12	11	5	ND	1	61	1.3	2	2	120	.97	.172	9	125	1.19	165	.04	2	3.69	.01	.07	1
L90-024S	1	72	2	53	.1	37	14	363	3.69	9	5	ND	1	48	.2	2	2	87	.80	.103	6	93	1.09	67	.12	4	1.84	.01	.04	1
L90-025S	2	107	2	55	1.7	20	12	1861	1.88	5	5	ND	1	109	.2	2	3	36	1.81	.208	15	42	.35	168	.01	3	1.76	.01	.04	1
L90-026S	1	68	4	71	.3	34	16	449	5.04	12	5	ND	1	34	.5	2	3	101	.48	.204	6	86	.94	99	.10	4	2.69	.01	.04	1
L90-027S	1	48	8	59	.3	26	12	346	4.07	2	5	ND	1	33	.2	3	3	94	.40	.076	6	71	.91	68	.13	2	1.98	.01	.04	1
L90-028S	1	35	10	41	.4	11	8	160	2.57	3	5	ND	1	28	.2	2	2	64	.30	.055	8	47	.33	58	.09	4	1.77	.01	.03	1
L90-029S	1	137	10	63	.9	42	18	1022	3.78	4	5	ND	1	86	.2	2	2	77	1.35	.173	13	97	1.02	133	.04	2	2.95	.01	.05	1
L90-032S	1	45	13	66	.3	26	13	282	3.72	11	5	ND	1	34	.2	2	3	87	.47	.063	7	60	.86	82	.13	3	2.32	.01	.04	1
L90-033S	1	51	10	57	.4	30	15	371	4.06	11	5	ND	1	34	.2	2	2	88	.49	.112	6	62	.83	96	.11	2	2.15	.01	.04	1
L90-036S	1	52	7	70	.6	25	15	397	4.90	11	5	ND	1	31	.5	2	2	96	.44	.308	5	72	.79	110	.10	2	2.14	.01	.05	1
L90-037S	1	55	9	59	.6	24	12	286	3.95	10	5	ND	2	31	.2	4	6	83	.36	.080	7	56	.69	94	.11	2	2.33	.01	.05	1
L90-038S	1	105	9	69	.4	36	13	419	3.68	11	5	ND	1	37	.3	2	2	78	.45	.078	7	69	1.12	110	.07	2	2.67	.01	.06	1
L90-039S	1	51	6	59	.1	25	13	397	3.09	4	5	ND	1	39	.2	2	2	70	.48	.068	6	53	.98	107	.10	7	2.09	.01	.05	1
L90-040S	1	62	8	47	.3	28	11	309	3.58	9	5	ND	1	31	.5	2	2	79	.46	.088	6	56	.92	80	.12	2	2.15	.01	.05	1
L90-041S	1	59	4	56	.1	27	13	289	3.84	13	5	ND	1	30	.2	2	2	75	.39	.094	7	55	.81	75	.09	3	2.50	.01	.04	1
STANDARD C*	19	62	42	136	7.2	75	31	1081	4.21	43	21	8	40	51	18.2	19	22	57	.53	.094	38	59	.95	180	.08	34	1.97	.06	.14	12
STANDARD C	17	59	39	132	7.2	68	31	1032	4.03	41	19	7	36	52	18.2	16	21	55	.52	.095	36	58	.91	180	.08	32	1.92	.06	.14	11

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

DATE RECEIVED: JUL 9 1990 DATE REPORT MAILED: July 11/90 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	M ppm
L90-042S	1	32	5	44	.2	19	8	218	2.95	4	5	ND	1	28	.2	3	2	65	.34	.049	6	43	.58	61	.11	2	1.82	.01	.03	1
L90-043S	1	31	2	42	.1	20	9	179	3.18	6	5	ND	1	29	.2	3	2	76	.34	.115	5	46	.47	74	.09	3	1.74	.01	.03	1
L90-044S	1	45	6	55	.4	20	11	344	4.21	6	5	ND	1	22	.2	3	2	90	.32	.266	5	54	.61	73	.09	2	2.51	.01	.04	1
L90-045S	1	81	7	48	.2	32	16	285	4.53	15	5	ND	1	29	.2	3	2	87	.38	.073	5	58	.84	79	.11	3	2.31	.01	.04	1
L90-047S	1	127	4	58	.2	31	16	301	4.80	14	5	ND	1	25	.2	3	3	95	.36	.154	4	58	.78	82	.09	2	2.55	.01	.04	1
L90-048S	1	59	2	53	.3	20	12	249	4.99	11	5	ND	1	22	.2	3	2	112	.27	.211	5	64	.61	70	.10	2	2.22	.01	.03	1
L90-049S	1	61	4	52	.2	23	12	255	4.62	10	5	ND	1	22	.2	3	2	94	.24	.124	5	59	.58	76	.10	2	2.07	.01	.03	2
L90-050S	1	40	2	48	.3	16	8	202	3.80	6	5	ND	1	23	.2	2	2	84	.31	.170	5	48	.52	72	.08	2	1.69	.01	.03	1
L90-051S	1	73	5	56	.6	21	10	294	3.10	7	5	ND	1	35	.2	2	3	75	.40	.035	8	47	.60	82	.10	2	1.72	.01	.04	2
L90-052S	1	41	6	45	.2	17	9	219	4.36	7	5	ND	1	25	.2	3	2	100	.26	.109	5	50	.64	65	.13	2	2.13	.01	.04	1
L90-053S	1	88	2	58	.3	27	12	281	4.01	9	5	ND	1	36	.2	2	3	83	.44	.050	8	53	.81	94	.09	2	2.11	.01	.05	1
L90-054S	1	74	7	60	.3	30	12	400	3.47	8	5	ND	1	53	.7	3	3	82	.85	.063	6	57	1.28	116	.10	4	2.36	.02	.06	1
L90-055S	1	52	3	72	.3	26	14	336	3.39	5	5	ND	1	34	.4	4	2	74	.44	.050	6	54	1.18	88	.14	4	2.35	.01	.05	1
L90-056S	1	61	2	76	.1	31	16	521	4.91	14	5	ND	1	33	.5	2	2	97	.39	.087	5	77	1.04	94	.15	4	2.05	.01	.05	1
L90-057S	1	145	4	42	.6	31	10	1515	1.73	2	5	ND	1	121	1.3	3	2	31	2.65	.116	15	43	.40	87	.02	4	1.82	.01	.02	1
L90-059S	1	85	2	54	.2	36	12	405	3.01	3	5	ND	1	54	.2	2	3	74	.85	.071	8	79	1.13	73	.09	2	1.98	.01	.04	1
L90-060S	1	90	2	50	.4	30	10	312	2.57	2	5	ND	1	65	.2	2	2	69	1.14	.042	7	84	.91	73	.09	3	1.59	.01	.04	1
L90-061S	1	57	12	54	.5	29	14	639	3.41	4	5	ND	1	52	.2	2	2	95	.70	.084	6	85	1.05	78	.12	6	1.98	.01	.04	1
L90-062S	1	168	5	78	1.0	43	22	1016	4.36	6	5	ND	1	78	.7	2	2	93	1.41	.175	8	105	1.14	130	.04	2	2.40	.01	.06	2
L90-063S	1	70	5	64	.5	21	15	786	3.48	7	5	ND	1	50	.3	2	2	95	.61	.049	8	72	.72	120	.10	2	1.85	.01	.04	1
L90-064S	1	67	2	48	.2	30	12	387	3.87	6	5	ND	1	40	.2	2	2	90	.55	.165	6	84	.89	64	.10	2	1.92	.01	.03	2
L90-065S	1	54	12	63	.4	28	14	318	4.47	10	5	ND	1	40	.2	2	2	93	.55	.112	6	82	.90	83	.10	3	2.08	.01	.04	1
L90-066S	1	125	4	69	.4	43	15	614	4.02	10	5	ND	1	43	.2	2	2	88	.55	.089	8	90	1.11	98	.08	2	2.58	.01	.05	1
L90-067S	1	57	8	46	.1	33	17	606	3.74	8	5	ND	1	52	.2	2	2	90	.90	.106	6	93	1.17	62	.12	5	1.73	.01	.04	1
L90-068S	1	49	10	56	.1	28	12	357	3.31	7	5	ND	1	37	.2	2	2	82	.48	.058	5	73	1.06	68	.13	2	2.02	.01	.04	1
L90-069S	1	46	10	53	.4	21	10	276	3.00	4	5	ND	1	36	.2	2	2	80	.43	.053	6	62	.77	106	.11	3	1.74	.01	.04	1
L90-070S	1	67	8	50	.1	30	12	337	3.07	3	5	ND	1	39	.2	2	2	69	.66	.078	6	63	1.19	76	.10	2	2.43	.01	.04	1
L90-071S	1	133	4	106	1.2	44	18	819	5.00	7	5	ND	1	44	.5	2	2	102	.60	.073	9	83	1.08	133	.08	2	2.81	.01	.05	1
L90-072S	1	34	6	84	.2	18	10	252	5.41	8	5	ND	2	19	.2	2	2	102	.23	.239	9	56	.53	102	.10	2	2.40	.01	.04	1
L90-073S	1	42	13	75	.3	55	15	387	5.23	24	5	ND	1	32	.2	2	2	97	.43	.128	7	69	1.15	96	.15	5	1.95	.01	.06	1
L90-074S	1	134	20	78	.4	53	19	610	4.58	14	5	ND	2	48	.3	3	2	90	.72	.083	10	71	1.22	114	.11	2	2.92	.01	.07	1
L90-075S	1	55	5	69	.3	25	13	258	5.41	39	5	ND	1	28	.2	2	2	118	.42	.283	5	79	.76	79	.11	2	2.03	.01	.04	2
L90-076S	1	51	2	53	.1	23	10	299	3.40	8	5	ND	1	27	.2	2	2	72	.37	.078	7	49	.88	65	.10	2	2.22	.01	.04	1
L90-077S	1	31	2	49	.3	12	8	249	3.48	5	5	ND	1	24	.2	2	2	79	.29	.163	5	45	.48	66	.10	2	1.86	.01	.04	2
RE L90-073S	1	41	10	73	.3	54	17	376	5.08	24	5	ND	1	31	.2	2	2	94	.41	.123	7	67	1.11	94	.14	3	1.87	.01	.06	1
L90-078S	1	60	2	53	.2	25	12	476	3.58	6	5	ND	1	32	.3	2	2	68	.42	.144	6	46	.86	80	.09	3	2.34	.01	.05	1
L90-079S	1	33	2	37	.1	19	9	204	4.23	5	5	ND	1	26	.2	2	2	88	.31	.124	5	50	.56	76	.09	2	2.02	.01	.03	1
STANDARD C	18	57	37	132	7.2	70	32	1031	4.00	38	17	7	36	52	18.6	15	20	55	.52	.095	36	59	.91	179	.08	37	1.87	.06	.14	11
STANDARD C*	18	62	37	129	7.2	68	31	1022	3.97	42	19	8	37	50	18.5	17	18	56	.48	.095	35	58	.89	170	.08	33	1.79	.06	.14	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
L90-080S	1	47	6	56	.1	23	12	281	4.66	8	5	ND	1	19	.2	2	2	84	.27	.235	4	57	.62	52	.09	2	3.04	.01	.03	1
L90-081S	1	48	2	43	.2	22	10	262	3.14	10	5	ND	1	30	.2	2	2	64	.46	.097	6	46	.79	59	.11	3	1.91	.01	.04	1
L90-082S	1	40	2	57	.4	20	9	277	3.03	5	5	ND	1	25	.2	2	2	60	.34	.083	7	43	.67	59	.10	2	2.24	.01	.04	1
L90-083S	1	59	2	64	.2	21	10	337	2.87	5	5	ND	1	30	.2	2	2	61	.33	.048	7	49	.69	123	.06	2	2.23	.01	.05	1
L90-086S	1	117	7	58	.7	28	11	295	3.60	7	5	ND	1	32	.5	2	2	75	.42	.045	13	64	.82	98	.10	2	2.45	.01	.04	1
L90-087S	1	87	11	76	.3	29	11	312	3.30	9	5	ND	1	34	.2	2	2	62	.41	.058	10	50	.88	87	.07	2	2.13	.01	.05	2
L90-089S	1	59	2	47	.1	29	10	318	3.20	5	5	ND	1	39	.3	2	2	73	.62	.090	6	59	1.02	59	.12	3	1.85	.01	.04	1
L90-090S	1	66	2	65	.1	31	12	353	3.95	7	5	ND	1	35	.5	2	2	84	.46	.067	6	65	1.02	83	.13	2	2.16	.01	.04	2
L90-091S	1	21	4	44	.3	17	8	278	2.14	3	5	ND	1	20	.2	3	2	49	.30	.053	5	38	.54	53	.08	3	1.36	.01	.03	1
RE L90-096S	1	51	7	64	.2	27	11	278	3.89	9	5	ND	1	28	.2	2	2	80	.40	.154	4	73	.87	73	.10	2	2.13	.01	.04	1
L90-092S	1	22	6	38	.3	12	7	188	2.81	3	5	ND	1	32	.5	2	2	89	.39	.064	5	54	.34	66	.14	3	1.16	.01	.03	1
L90-093S	2	171	7	55	2.8	28	13	636	3.10	5	5	ND	1	44	.2	2	2	61	.59	.221	12	77	.55	96	.02	3	2.52	.01	.03	1
L90-094S	1	41	2	57	.1	24	10	363	3.67	6	5	ND	1	32	.6	2	2	82	.47	.172	4	67	.73	62	.10	2	1.99	.01	.03	1
L90-095S	1	68	2	49	.3	28	11	273	3.15	8	5	ND	1	37	.5	2	2	70	.49	.066	7	69	.87	72	.09	5	2.02	.01	.04	2
L90-096S	1	53	9	67	.2	28	12	291	4.04	7	5	ND	1	29	.3	2	2	83	.42	.161	5	74	.91	71	.11	4	2.19	.01	.04	1
L90-097S	1	52	7	60	.1	28	12	320	3.89	9	5	ND	1	35	.5	2	2	82	.53	.113	6	77	.94	66	.11	2	2.14	.01	.04	1
L90-098S	1	50	2	53	.8	32	12	318	3.69	9	5	ND	1	36	.5	2	2	86	.55	.090	5	81	1.07	57	.12	4	2.02	.01	.03	1
L90-099S	1	60	8	40	.3	24	12	493	2.48	5	5	ND	1	53	.6	2	2	69	.80	.057	7	69	.67	99	.07	3	1.54	.01	.04	1
L90-100S	1	102	13	49	.1	40	15	494	3.46	5	5	ND	1	61	.7	2	2	79	.98	.095	7	108	1.20	59	.11	6	1.90	.01	.04	1
L90-101S	1	67	4	48	.4	18	10	219	2.78	11	5	ND	2	25	.7	2	2	62	.30	.054	6	48	.59	93	.11	2	2.52	.01	.03	1
L90-105S	1	63	3	64	.4	20	12	308	4.00	5	5	ND	1	20	.6	2	4	78	.29	.204	6	50	.57	63	.08	3	2.14	.01	.04	1
L90-108S	1	36	11	70	.2	19	10	284	4.56	5	5	ND	1	23	.2	2	2	103	.35	.207	4	55	.63	63	.10	2	1.65	.01	.04	1
L90-110S	2	130	4	62	.5	33	16	755	3.55	3	5	ND	1	61	1.1	2	2	80	.94	.137	10	98	.91	99	.03	3	2.18	.01	.03	1
L90-111S	1	60	9	59	.2	33	12	323	3.38	3	5	ND	1	49	.7	2	2	80	.60	.062	6	80	1.20	56	.11	3	1.98	.01	.03	1
L90-112S	1	69	2	53	.1	31	12	313	3.83	2	5	ND	1	48	.4	2	2	89	.66	.081	6	100	1.02	59	.12	4	2.13	.01	.03	1
L90-113S	1	53	7	65	.4	22	11	427	4.10	9	5	ND	1	41	.2	2	2	89	.37	.082	6	65	.89	81	.11	4	2.14	.01	.04	1
L90-115S	1	33	2	59	.4	23	9	229	3.23	2	5	ND	1	46	.2	2	3	90	.47	.066	5	95	.69	65	.12	2	1.82	.01	.03	1
L90-116S	1	49	6	60	.2	32	15	454	3.72	6	5	ND	1	52	1.0	2	2	88	.90	.066	5	87	1.21	65	.09	4	2.04	.01	.04	1
L90-117S	1	33	6	53	.1	21	11	263	3.06	6	5	ND	1	41	.7	2	2	79	.50	.032	6	68	.92	58	.12	3	1.93	.01	.03	2
L90-120S	1	51	12	76	.1	33	14	427	4.65	6	5	ND	1	44	1.0	2	2	116	1.03	.060	3	93	1.41	62	.12	2	2.15	.01	.04	1
L90-121S	1	98	5	53	.1	36	17	596	3.63	7	5	ND	1	55	.9	2	3	85	.98	.083	8	93	1.29	68	.09	2	2.17	.01	.04	1
L90-123S	1	131	4	64	.2	39	18	475	5.16	5	5	ND	1	69	1.8	2	2	98	1.24	.073	7	104	1.07	61	.10	2	2.52	.01	.04	1
L90-124S	1	169	7	61	.4	36	19	772	3.98	3	5	ND	1	73	1.4	2	2	80	1.28	.151	12	102	1.03	65	.05	3	2.36	.01	.04	1
L90-125S	1	117	7	59	.2	33	17	609	4.19	7	5	ND	1	57	.2	3	2	92	.90	.089	9	76	1.08	60	.09	4	1.92	.01	.04	1
L90-126S	1	143	2	63	.2	34	17	629	3.88	3	5	ND	1	56	1.2	2	2	83	.87	.094	10	99	1.13	64	.08	3	1.97	.01	.04	1
L90-127S	1	74	3	67	.1	34	16	668	4.04	4	5	ND	1	52	.4	2	3	86	.83	.084	8	114	1.22	55	.09	3	1.95	.01	.03	1
L90-128S	1	57	12	89	.1	29	15	390	5.79	5	5	ND	1	46	.6	2	2	138	.60	.244	4	103	1.07	67	.14	2	2.19	.01	.06	1
STANDARD C	17	57	35	132	7.2	67	31	1030	4.00	41	18	6	36	52	18.6	15	18	56	.52	.094	36	57	.91	183	.08	39	1.88	.06	.14	11
STANDARD C*	17	56	38	123	7.2	67	31	974	3.80	38	17	6	36	48	18.4	17	19	55	.48	.088	36	56	.86	171	.08	34	1.69	.05	.14	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	M ppm
L90-129S	1	47	10	61	.1	30	14	534	4.65	4	5	ND	1	45	.2	2	2	112	.55	.122	5	109	.91	56	.13	2	2.08	.01	.04	2
L90-130S	1	29	4	66	.1	24	9	287	4.80	5	5	ND	1	32	.2	2	2	123	.33	.107	6	79	.70	68	.15	2	2.06	.01	.04	1
L90-131S	1	66	8	72	.1	35	15	434	5.00	4	5	ND	1	55	.4	2	2	112	.55	.069	5	103	1.62	69	.15	2	2.97	.01	.04	1
L90-132S	1	83	6	80	.2	34	16	627	4.53	6	5	ND	1	47	.2	2	2	101	.48	.080	6	93	1.34	89	.11	2	2.84	.01	.05	1
L90-133S	1	65	7	84	.4	40	16	461	4.55	7	5	ND	1	78	.2	3	4	103	.70	.109	6	91	1.55	110	.14	3	2.94	.01	.05	1
L90-134S	1	134	6	77	.3	53	19	589	4.21	4	5	ND	1	78	.6	2	2	93	1.27	.134	12	136	1.55	80	.08	5	2.85	.01	.05	2
L90-135S	1	106	7	63	.1	56	20	684	4.39	5	5	ND	1	80	.2	2	4	101	1.35	.123	8	176	1.59	57	.12	3	2.30	.01	.05	1
L90-136S	2	227	3	62	1.0	37	18	1559	3.59	2	5	ND	1	106	.8	2	2	70	2.21	.262	16	89	.80	113	.03	2	2.79	.01	.05	1
L90-137S	1	33	6	64	.2	25	10	248	4.00	2	5	ND	1	47	.2	2	2	99	.59	.094	6	88	.69	71	.14	3	2.24	.01	.03	1
L90-139S	1	61	6	70	.1	44	17	420	5.17	6	5	ND	1	54	.2	2	7	116	.72	.148	5	139	1.41	56	.16	3	2.60	.01	.04	1
L90-140S	1	61	8	76	.1	44	18	412	5.85	4	5	ND	1	56	.9	2	2	122	.71	.126	5	135	1.42	80	.15	2	2.80	.01	.04	1
L90-141S	1	36	2	50	.3	26	8	253	2.59	2	5	ND	1	63	.2	2	2	83	.64	.030	6	87	.75	90	.16	4	1.65	.01	.05	1
L90-142S	1	63	9	62	.2	52	20	686	4.46	4	5	ND	1	71	.2	2	2	109	.95	.105	6	144	1.64	58	.15	6	2.55	.01	.05	1
L90-143S	1	36	13	77	.1	36	14	416	5.03	2	5	ND	1	53	.4	2	4	126	.68	.214	5	161	.99	83	.17	2	2.09	.01	.05	1
L90-144S	1	130	12	92	.4	57	24	792	4.70	9	5	ND	1	71	.3	2	3	110	.98	.093	9	136	1.39	162	.09	2	3.28	.01	.06	1
L90-145S	1	105	8	79	.2	57	21	635	4.85	9	5	ND	1	61	1.1	2	2	110	.80	.092	6	152	1.50	94	.11	2	2.97	.01	.05	1
L90-146S	1	117	14	91	.4	52	27	1372	5.18	9	5	ND	1	80	.5	2	2	123	.97	.091	8	164	1.58	85	.11	4	2.43	.01	.05	1
L90-147S	1	108	17	76	.4	37	18	1123	3.61	2	5	ND	1	77	.5	2	2	93	1.32	.121	9	105	1.08	122	.05	4	2.11	.01	.05	1
RE L90-143S	1	40	11	76	.1	35	17	426	4.96	2	5	ND	1	51	.9	2	5	124	.67	.215	5	159	1.00	83	.16	2	2.06	.01	.05	1
L90-149S	1	49	7	70	.9	26	11	266	4.41	6	5	ND	1	37	.2	2	2	87	.47	.136	6	79	.79	66	.10	4	2.51	.01	.03	1
L90-150S	1	49	3	57	.4	27	11	336	3.12	2	5	ND	1	49	.3	2	2	81	.55	.064	6	67	.97	63	.11	2	1.77	.01	.04	1
L90-151S	1	59	10	53	.8	17	7	175	3.15	2	5	ND	1	38	.2	2	3	76	.40	.095	6	65	.39	94	.08	2	1.78	.01	.03	1
L90-152S	1	34	8	38	.2	18	8	201	3.55	4	5	ND	1	43	.2	2	2	102	.45	.115	4	86	.51	91	.13	4	1.40	.01	.03	1
L90-153S	1	104	7	83	.5	38	18	594	4.91	9	5	ND	1	50	.2	2	2	104	.66	.129	8	109	1.21	82	.11	4	2.71	.01	.05	1
L90-154S	1	64	11	79	.2	36	16	566	4.11	7	5	ND	1	50	.3	2	2	100	.64	.076	6	98	1.22	78	.13	4	2.29	.01	.05	1
L90-155S	1	62	8	69	.2	41	15	571	4.27	5	5	ND	1	50	.2	2	2	103	.72	.097	6	109	1.18	82	.10	5	2.44	.01	.05	1
L90-156S	1	63	6	74	.3	39	15	515	4.84	8	5	ND	1	50	.5	2	4	118	.64	.104	7	153	1.09	90	.13	3	2.14	.01	.05	1
L90-157S	1	71	11	83	.4	46	15	586	4.48	2	5	ND	1	45	.5	2	2	102	.71	.097	5	172	1.31	77	.11	5	2.08	.01	.04	1
L90-158S	1	49	10	101	.2	79	22	556	4.77	4	5	ND	1	57	.9	2	3	104	.92	.084	5	262	2.09	114	.12	2	2.42	.01	.06	1
L90-159S	1	71	5	81	.3	46	19	325	4.66	4	5	ND	1	52	.8	2	2	90	.92	.061	7	151	1.02	93	.09	2	2.76	.01	.03	1
L90-160S	1	94	13	121	.4	64	23	1317	4.71	8	5	ND	1	59	.2	2	5	91	1.39	.122	7	184	1.68	97	.08	5	2.51	.01	.09	1
L90-161S	1	53	7	73	.2	36	13	390	4.18	3	5	ND	1	44	.4	2	4	99	.56	.122	6	127	1.01	91	.11	4	2.21	.01	.05	1
L90-162S	1	209	12	94	.7	57	19	1053	4.89	10	5	ND	1	58	1.1	2	3	95	1.19	.136	13	157	1.39	111	.06	3	2.96	.01	.06	1
L90-163S	1	75	8	75	.2	39	13	364	4.39	3	5	ND	1	48	.7	2	2	99	.59	.089	8	117	1.01	95	.10	3	2.25	.01	.04	1
L90-164S	1	124	4	64	.3	63	24	708	4.94	6	5	ND	1	79	.8	2	3	113	1.05	.095	8	200	1.65	64	.12	3	2.58	.01	.05	1
L90-165S	1	60	21	91	.1	24	15	617	5.22	7	5	ND	1	105	.4	2	4	128	.84	.147	6	56	.94	128	.19	3	2.62	.01	.05	2
L90-166S	1	53	6	72	.1	25	14	353	5.63	6	5	ND	1	96	.2	2	3	126	.66	.091	6	99	.98	80	.17	2	2.69	.01	.04	1
STANDARD C	18	59	38	132	7.2	73	31	1030	4.04	39	20	7	37	53	18.5	15	19	55	.52	.094	37	58	.92	179	.08	33	1.95	.06	.14	12
STANDARD C*	18	58	42	131	7.2	69	31	1014	4.04	37	21	6	38	52	18.4	17	21	54	.51	.095	37	59	.92	183	.08	33	1.90	.06	.14	13

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
L90-167S	1	56	4	108	.1	25	18	824	6.15	4	5	ND	1	149	.5	2	5	127	.72	.344	4	91	1.28	153	.12	3	2.52	.01	.05	2
L90-168S	1	43	7	81	.2	23	15	397	6.34	6	5	ND	1	92	1.4	3	2	139	.41	.149	5	75	.94	97	.16	2	2.33	.01	.05	1
L90-170S	1	144	11	79	.4	77	25	671	5.45	9	5	ND	1	93	.4	2	8	114	1.02	.106	6	181	2.25	112	.09	3	3.38	.01	.09	1
L90-172S	1	93	8	50	.3	40	17	515	4.11	4	5	ND	1	91	.3	2	2	87	1.38	.068	6	132	1.31	93	.10	3	2.10	.01	.04	2
L90-173S	1	52	8	70	.1	26	14	441	4.74	4	5	ND	1	83	.5	2	3	122	.91	.064	5	112	.96	117	.14	2	1.88	.01	.04	1
L90-174S	1	68	9	67	.2	46	17	405	5.69	7	5	ND	1	55	.3	3	6	126	.71	.239	3	143	1.44	87	.11	2	2.60	.01	.04	1
L90-175S	1	34	2	32	.1	19	8	179	3.18	2	5	ND	1	58	.2	2	2	108	.63	.022	4	118	.59	92	.19	2	1.62	.01	.02	2
L90-179S	1	82	10	75	.1	61	23	857	5.15	7	5	ND	1	74	.4	2	2	119	1.45	.103	5	238	2.00	53	.13	3	2.46	.01	.05	2
L90-180S	1	53	6	81	.1	32	17	560	5.29	6	5	ND	1	59	.8	2	2	122	1.02	.106	5	125	1.03	107	.12	2	2.07	.01	.04	1
L90-181S	1	127	8	86	.3	32	13	436	3.23	6	5	ND	1	60	.2	2	2	71	.94	.074	9	90	1.01	74	.07	2	1.91	.01	.05	1
L90-182S	1	68	2	62	.3	31	13	373	3.37	5	5	ND	1	86	.2	2	2	83	.96	.070	8	75	1.21	82	.11	2	2.13	.01	.03	1
L90-183S	1	34	3	74	.4	30	12	328	3.41	4	5	ND	1	53	.2	2	2	84	.88	.072	6	88	1.13	71	.13	3	1.89	.01	.04	1
L90-184S	1	106	11	80	.4	46	17	461	4.08	3	5	ND	1	56	.2	2	2	94	.80	.083	7	132	1.41	78	.10	3	2.29	.01	.04	1
L90-185S	1	71	6	70	.1	41	21	954	4.14	5	5	ND	1	62	.2	2	2	98	1.05	.103	7	142	1.31	60	.10	4	2.24	.01	.04	1
RE L90-182S	1	66	3	61	.2	31	14	370	3.36	5	5	ND	1	87	.2	2	2	82	.96	.070	7	74	1.21	80	.11	4	2.16	.01	.03	1
L90-186S	1	49	7	68	.1	24	15	596	4.07	9	5	ND	1	57	.2	2	2	96	.99	.109	5	86	.94	87	.09	2	1.76	.01	.04	1
L90-187S	1	41	2	56	.2	31	11	361	3.19	7	5	ND	1	45	.2	2	2	81	.80	.080	5	82	1.16	60	.12	4	1.87	.01	.03	1
STANDARD C	18	58	38	132	7.2	70	32	1031	4.14	39	19	7	37	53	18.6	16	20	55	.54	.095	37	59	.94	179	.08	35	2.00	.06	.14	11
STANDARD C*	18	58	40	126	7.2	66	31	1015	4.03	37	19	7	37	51	18.9	15	20	54	.52	.093	35	56	.91	172	.08	34	1.87	.05	.14	11

GEOCHEMICAL ANALYSIS CERTIFICATE

BP Resources Canada Ltd. File # 90-2536 Page 1

700 - 890 W. Pender St., Vancouver BC V6B 4W3

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
L90-188S	1	33	8	66	.1	28	9	365	3.22	2	5	ND	1	52	.2	2	2	92	.72	.031	6	80	1.06	86	.18	6	1.96	.01	.03	1
L90-189S	1	26	10	67	.1	27	9	301	4.53	10	5	ND	1	42	.3	2	2	115	.52	.106	7	95	.78	71	.18	6	2.03	.01	.02	1
L90-193S	1	34	9	86	.2	26	9	281	3.87	14	5	ND	1	44	.3	2	2	92	.56	.055	9	73	.77	86	.15	4	2.36	.01	.02	1
L90-194S	1	93	9	87	.1	45	18	721	4.88	16	5	ND	1	85	.5	2	2	123	1.18	.072	8	115	1.30	116	.15	4	2.74	.01	.04	1
L90-195S	1	98	11	67	.2	50	17	732	4.48	6	5	ND	1	79	.2	2	2	108	1.09	.073	9	130	1.42	98	.16	6	2.57	.01	.05	1
L90-196S	1	138	11	84	.1	57	20	883	4.51	14	5	ND	1	122	.5	2	2	101	1.82	.106	9	136	1.42	125	.10	4	2.63	.01	.06	1
L90-197S	1	64	7	59	.1	37	12	378	3.53	6	5	ND	1	57	.2	2	2	91	.72	.055	7	89	1.14	80	.13	2	2.34	.01	.03	1
L90-198S	1	41	7	75	.2	35	11	367	4.35	9	5	ND	1	45	.2	2	2	102	.55	.135	7	89	1.17	81	.17	2	2.32	.01	.04	1
L90-199S	1	53	7	62	.1	34	10	318	4.51	14	5	ND	1	45	.3	3	2	106	.48	.056	6	100	.99	99	.13	2	2.26	.01	.01	1
L90-200S	1	196	10	74	.4	81	26	465	5.48	2	5	ND	1	101	.6	2	2	114	1.70	.094	14	234	1.16	76	.15	2	3.27	.01	.06	1
L90-201S	1	89	8	79	.3	69	27	1380	5.12	9	5	ND	1	86	.4	2	2	110	1.33	.082	6	228	1.76	115	.12	2	2.50	.01	.06	1
L90-202S	1	117	9	89	.3	61	19	727	4.77	17	5	ND	1	103	.6	3	4	99	1.26	.083	8	157	1.66	118	.13	2	2.46	.01	.06	2
L90-203S	1	163	11	56	.2	60	21	575	4.85	18	5	ND	1	94	.5	2	2	92	1.29	.101	13	184	1.17	94	.09	2	2.72	.01	.04	1
L90-204S	1	166	8	74	.2	67	20	564	5.54	13	5	ND	1	87	.4	2	2	131	1.11	.053	8	229	1.76	92	.16	2	2.88	.01	.07	1
L90-205S	1	58	9	77	.3	73	19	466	5.72	13	5	ND	1	63	.4	2	3	136	.96	.145	6	284	2.00	133	.19	2	2.53	.01	.06	1
L90-206S	1	125	9	62	.5	78	19	814	4.73	16	5	ND	1	68	.8	2	2	108	1.69	.119	9	235	1.75	98	.09	2	2.46	.01	.06	1
L90-207S	1	99	8	60	.2	79	23	907	4.95	8	5	ND	1	71	.2	2	2	112	1.43	.105	8	250	2.25	113	.16	2	2.52	.01	.08	1
L90-208S	1	86	6	75	.4	58	17	590	4.59	14	5	ND	1	81	.9	4	2	110	1.83	.073	6	183	1.48	114	.12	2	2.28	.01	.01	1
L90-209S	1	127	11	63	.5	76	23	1055	4.93	17	5	ND	1	68	.5	2	2	104	1.41	.109	11	192	1.56	105	.10	2	2.79	.01	.05	1
L90-211S	1	142	8	71	.4	50	17	687	4.40	13	5	ND	1	67	.4	2	2	96	1.19	.076	9	112	1.34	103	.13	2	2.48	.01	.04	1
L90-212S	1	173	10	64	1.3	41	12	594	4.40	15	5	ND	1	58	.6	2	2	103	.73	.085	11	103	.91	108	.11	2	2.37	.01	.05	2
L90-213S	1	59	7	57	.1	36	11	338	4.43	15	5	ND	1	48	.2	2	2	103	.63	.096	7	93	1.16	69	.18	4	2.49	.01	.03	1
L90-214S	1	66	10	52	.3	39	13	463	3.93	15	5	ND	1	64	.3	2	2	107	.86	.062	7	105	1.13	86	.15	4	2.29	.01	.02	2
RE L90-211S	1	145	6	74	.3	51	17	692	4.37	15	5	ND	1	67	.4	2	2	96	1.20	.076	9	112	1.34	100	.13	2	2.45	.01	.04	1
L90-215S	1	163	8	90	.5	63	20	809	5.29	19	5	ND	1	63	.7	4	3	111	.98	.100	8	119	1.56	163	.12	2	3.42	.01	.07	1
L90-216S	1	78	9	98	1.0	36	16	685	5.01	14	5	ND	1	36	.2	2	2	100	.42	.074	10	64	1.26	112	.16	2	3.13	.01	.06	1
L90-217S	1	153	14	115	.6	51	17	704	5.25	19	5	ND	1	40	.3	4	2	105	.45	.108	12	69	1.34	120	.12	7	3.47	.01	.05	1
L90-218S	1	28	8	62	.5	17	7	350	3.81	13	5	ND	1	35	.2	2	3	99	.46	.147	9	66	.46	79	.20	2	1.55	.01	.05	2
L90-219S	1	67	8	74	.3	43	14	534	3.91	9	5	ND	1	44	.2	2	2	92	.56	.059	8	89	1.47	108	.15	2	2.98	.01	.04	1
L90-220S	1	71	11	82	.4	39	14	445	6.00	24	5	ND	1	35	.5	3	3	120	.44	.086	9	100	1.10	93	.21	3	2.87	.01	.03	1
L90-221S	1	39	6	65	.4	31	10	357	4.99	9	5	ND	1	33	.2	3	2	118	.46	.143	7	77	1.23	76	.18	2	2.81	.01	.04	1
L90-222S	1	54	8	72	.5	40	14	424	5.00	12	5	ND	1	40	.3	3	2	107	.57	.143	7	90	1.35	112	.17	2	2.96	.01	.05	1
L90-223S	1	98	11	86	.5	45	17	1003	5.35	18	5	ND	1	38	.3	2	3	110	.50	.101	9	85	1.42	113	.13	2	3.45	.01	.05	1
L90-224S	1	77	8	106	.2	47	14	433	4.62	15	5	ND	1	36	.2	2	2	102	.48	.074	12	79	1.56	102	.13	2	3.24	.01	.05	1
L90-225S	1	68	8	113	.3	36	14	485	4.46	7	5	ND	1	47	.2	2	2	102	.55	.064	10	71	1.49	114	.16	2	3.27	.01	.05	1
L90-227S	1	54	6	77	.3	23	11	472	4.20	13	5	ND	1	65	.2	4	2	111	.77	.070	7	48	1.45	105	.15	2	3.08	.01	.04	1
L90-228S	1	170	9	104	.9	38	18	1183	5.26	18	8	ND	1	65	.3	2	2	115	.94	.079	13	64	1.56	179	.08	2	3.91	.01	.11	1
STANDARD C	20	58	40	132	7.1	75	31	1076	4.24	44	20	8	40	52	18.9	17	21	60	.54	.099	40	60	1.00	182	.10	34	2.06	.06	.14	12
STANDARD C	18	60	36	132	7.0	72	29	1019	4.00	39	23	7	38	53	18.5	15	20	57	.51	.094	38	60	.93	181	.09	33	1.94	.06	.13	11

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

DATE RECEIVED: JUL 14 1990 DATE REPORT MAILED: *July 18/90* SIGNED BY: *C. Leung* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
L90-229S	1	67	9	64	.2	38	15	473	6.71	17	5	ND	2	47	.6	3	2	144	.43	.122	7	108	1.16	149	.17	7	2.92	.01	.06	1
L90-230S	1	56	8	63	.2	32	14	624	6.10	13	5	ND	1	52	.4	3	2	154	.55	.141	6	95	1.11	140	.17	5	2.37	.01	.07	1
L90-231S	1	36	8	111	.2	20	10	325	5.37	19	5	ND	2	46	.5	3	2	110	.41	.173	9	50	.78	90	.17	4	2.62	.01	.06	1
L90-232S	1	82	10	67	.2	34	15	478	4.53	11	5	ND	2	65	.7	3	3	115	.88	.051	9	81	1.11	103	.18	4	2.86	.01	.04	1
L90-233S	1	38	8	87	.2	20	9	296	4.30	6	5	ND	1	41	.3	2	3	100	.47	.178	8	67	.73	72	.16	2	2.67	.01	.04	1
L90-234S	1	81	12	92	.4	37	15	472	4.74	19	5	ND	1	46	.7	3	2	108	.50	.079	9	96	1.05	134	.15	4	3.52	.01	.05	1
L90-235S	1	110	10	80	.6	35	13	580	3.78	3	5	ND	1	58	.7	2	3	89	.71	.126	12	77	1.07	134	.06	2	3.21	.01	.06	1
L90-236S	1	156	11	113	.6	61	24	1033	5.33	16	5	ND	1	78	1.1	3	2	117	1.20	.134	11	131	1.66	163	.09	2	3.83	.01	.07	1
L90-237S	1	202	12	115	.5	35	18	983	4.11	17	5	ND	1	77	1.4	2	2	91	1.38	.117	16	75	.82	101	.08	2	2.74	.01	.05	1
L90-238S	1	136	13	104	.3	39	14	799	4.12	13	5	ND	1	73	1.1	4	2	98	1.19	.120	10	82	1.32	134	.07	2	3.05	.01	.04	1
L90-239S	1	162	13	72	.7	34	11	472	3.37	17	5	ND	1	94	1.2	2	2	74	1.62	.117	14	75	.87	117	.06	2	2.62	.01	.03	1
RE L90-244S	1	67	6	57	.5	26	8	328	4.05	12	5	ND	1	37	.4	2	2	79	.47	.180	7	50	.78	77	.11	2	2.14	.01	.04	1
L90-240S	1	35	8	71	.2	15	6	191	2.08	3	5	ND	1	38	.2	2	3	51	.51	.032	13	40	.56	75	.11	2	1.72	.01	.03	1
L90-241S	1	41	7	60	.1	23	9	266	4.01	16	5	ND	1	36	.2	2	2	105	.46	.135	8	64	.86	68	.14	2	2.24	.01	.04	1
L90-242S	1	53	6	60	.2	23	9	369	3.76	10	5	ND	1	37	.3	3	2	86	.38	.057	7	52	1.05	74	.17	2	2.57	.01	.05	1
L90-243S	1	44	8	56	.7	20	8	259	5.09	5	5	ND	2	27	.3	2	2	102	.29	.125	7	59	.73	69	.15	2	3.08	.01	.04	1
L90-244S	1	64	7	56	.5	26	8	326	4.05	12	5	ND	1	37	.3	2	2	79	.47	.180	7	52	.78	76	.11	2	2.15	.01	.05	1
L90-245S	1	62	9	69	.1	30	11	374	4.88	20	5	ND	2	37	.4	4	2	92	.47	.177	7	60	1.09	70	.15	2	2.51	.01	.06	2
L90-246S	1	53	9	75	.6	22	9	395	5.25	21	5	ND	1	30	.5	4	2	107	.36	.295	6	60	.76	87	.13	2	2.85	.01	.03	1
L90-247S	1	64	31	85	.5	25	10	330	3.75	16	5	ND	1	32	.4	4	2	85	.33	.068	9	56	.95	86	.15	2	2.74	.01	.04	1
L90-248S	1	37	15	45	.4	13	5	169	2.26	16	5	ND	1	35	.2	2	2	66	.38	.067	8	45	.49	80	.10	2	2.15	.01	.03	2
L90-249S	1	25	10	83	.8	19	8	292	4.98	7	5	ND	1	23	.4	4	3	101	.33	.213	7	70	.78	69	.13	2	2.88	.01	.03	1
L90-250S	1	52	15	103	.4	41	17	625	5.49	12	5	ND	1	75	.5	3	2	122	.65	.202	6	157	1.28	118	.20	2	2.12	.01	.06	1
L90-253S	1	52	10	81	.6	28	10	368	4.25	12	5	ND	1	55	.5	3	2	101	.77	.050	6	70	.95	72	.17	2	2.49	.01	.05	1
L90-254S	1	34	12	72	.2	27	10	324	4.64	12	5	ND	1	34	.3	3	2	115	.42	.072	6	70	.98	102	.18	2	2.39	.01	.04	2
L90-255S	1	84	8	73	.3	59	17	481	4.94	3	5	ND	1	52	.3	2	2	117	.73	.098	8	150	1.91	87	.18	4	2.96	.01	.06	1
L90-256S	1	110	7	80	.1	70	20	632	5.26	12	5	ND	1	60	.5	4	2	121	.77	.085	7	157	2.34	84	.18	4	3.53	.01	.07	1
L90-257S	1	95	15	92	.4	39	13	422	4.29	9	5	ND	1	37	.5	4	3	91	.43	.087	11	91	1.31	99	.11	3	2.93	.01	.06	1
L90-258S	1	217	27	101	1.1	57	19	779	5.58	23	5	ND	1	50	.8	3	2	120	.53	.087	15	105	1.09	131	.09	4	3.82	.01	.06	1
L90-259S	1	160	13	130	.6	51	16	796	4.52	15	5	ND	1	56	.8	3	2	95	.62	.100	12	95	1.31	127	.09	3	3.13	.01	.06	1
L90-260S	1	23	12	61	.5	16	6	226	3.07	6	5	ND	1	40	.5	2	3	92	.51	.092	8	63	.42	117	.18	2	1.58	.01	.06	2
L90-261S	1	50	13	80	.4	31	11	360	4.39	12	5	ND	1	35	.3	4	3	93	.45	.100	9	70	1.15	84	.18	4	2.80	.01	.05	1
L90-262S	1	56	15	80	.4	30	12	348	4.10	10	5	ND	2	31	.2	3	2	89	.37	.100	8	78	.96	80	.16	3	3.29	.01	.05	1
L90-263S	1	39	10	100	.8	27	11	398	5.46	2	5	ND	1	31	.2	3	2	112	.47	.308	6	85	.86	72	.15	5	2.57	.01	.06	1
L90-264S	1	117	11	115	1.1	38	15	572	4.59	17	5	ND	1	41	.2	3	2	90	.46	.064	13	64	1.15	108	.15	4	3.29	.01	.08	1
L90-265S	1	90	11	85	.6	27	17	501	5.07	24	5	ND	1	87	.6	3	2	89	1.29	.119	10	57	.91	96	.10	6	2.56	.01	.06	1
L90-266S	1	45	11	75	.6	26	11	273	6.43	16	5	ND	2	38	.2	3	2	133	.45	.303	7	75	.81	93	.16	5	2.46	.01	.06	1
STANDARD C	20	63	40	141	7.3	75	32	1084	4.23	38	17	8	41	53	18.0	20	21	61	.55	.094	39	59	.98	184	.10	33	2.07	.06	.14	12
STANDARD C	18	57	38	132	7.3	72	31	1034	4.06	44	21	7	39	52	18.6	16	18	58	.52	.096	39	60	.94	181	.09	38	1.98	.06	.13	11

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
L90-269S	1	47	11	76	.1	18	13	411	4.79	6	5	ND	1	29	.3	2	2	107	.30	.303	5	56	.64	77	.11	2	2.63	.01	.05	1
L90-271S	1	50	6	61	.1	21	13	259	4.46	7	5	ND	1	35	.4	2	2	120	.47	.192	5	68	.57	74	.15	3	1.73	.01	.05	1
L90-272S	1	47	2	58	.1	30	18	281	3.72	5	5	ND	1	44	.2	2	2	89	.51	.274	6	73	.71	57	.11	4	2.12	.01	.07	1
L90-273S	1	43	2	78	.1	27	14	343	4.55	7	5	ND	1	29	.7	2	2	119	.37	.178	5	71	.67	65	.12	2	2.23	.01	.05	1
L90-274S	1	36	9	44	.1	14	8	283	4.02	7	5	ND	1	27	.5	2	2	103	.30	.232	5	56	.45	62	.10	2	2.06	.01	.04	1
L90-275S	1	45	7	64	.2	18	10	272	5.09	6	5	ND	1	25	.5	2	2	124	.28	.227	6	61	.57	69	.13	2	2.69	.01	.04	1
L90-276S	1	134	3	98	.9	36	16	739	3.83	7	5	ND	1	68	1.1	2	2	83	.99	.190	11	78	.83	129	.04	3	3.06	.01	.05	1
L90-277S	1	51	6	64	.1	22	12	263	4.99	4	5	ND	1	31	.5	2	2	123	.40	.079	6	74	.69	108	.14	5	3.03	.01	.04	1
L90-278S	1	39	3	85	.1	19	13	306	5.92	4	5	ND	1	27	.6	2	2	144	.28	.217	7	62	.65	67	.16	3	2.23	.01	.04	1
L90-280S	1	44	9	78	.1	22	12	284	5.34	6	5	ND	2	28	.4	2	2	123	.34	.312	8	67	.64	76	.12	5	2.62	.01	.05	1
L90-282S	1	43	8	55	.1	23	12	269	6.25	8	5	ND	2	29	.6	2	2	147	.40	.347	5	77	.68	68	.13	6	2.92	.01	.05	1
L90-283S	1	41	8	49	.2	19	8	212	4.73	6	5	ND	1	23	1.0	2	2	101	.20	.166	6	59	.58	78	.13	3	2.09	.01	.05	2
L90-284S	1	53	2	64	.3	24	14	395	4.02	4	5	ND	1	40	.6	2	2	92	.47	.096	6	62	.91	107	.15	6	2.30	.01	.06	1
L90-285S	1	65	7	96	.1	29	16	332	6.31	12	5	ND	2	23	.6	2	2	126	.29	.327	7	81	.89	96	.13	5	3.39	.01	.05	1
L90-287S	1	12	11	22	.2	6	3	94	.92	2	5	ND	1	33	.2	2	2	38	.30	.032	11	23	.18	88	.09	2	1.21	.01	.03	1
L90-288S	1	57	7	77	.1	29	16	360	4.97	4	5	ND	2	25	.9	2	2	108	.29	.280	7	79	.84	64	.11	2	3.34	.01	.05	1
L90-289S	1	38	8	52	.1	24	11	296	3.63	3	5	ND	1	39	.4	2	2	96	.48	.060	6	74	.78	96	.12	7	2.47	.01	.04	1
STANDARD C	19	58	38	134	7.3	71	32	1058	3.96	40	18	7	36	53	18.2	15	19	57	.48	.095	38	61	.88	179	.07	38	2.04	.06	.14	12

GEOCHEMICAL ANALYSIS CERTIFICATE


BP Resources Canada Ltd. PROJECT LIP File # 90-2786

700 - 890 W. Pender St., Vancouver BC V6B 4M3

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Mi ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	V ppm
L90-28R	1	35	9	54	1	43	17	553	2.74	3	5	ND	1	27	5	4	2	41	.61	.091	2	98	2.09	22	.11	5	1.73	.02	.03	2
L90-54R	1	41	2	8	1	8	4	155	1.59	2	5	ND	1	119	2	2	2	25	.84	.182	9	36	.33	84	.11	4	.86	.05	.29	2
L90-114R	1	104	17	66	2	104	26	476	3.23	15	5	ND	1	141	7	4	2	119	2.42	.081	5	86	1.37	61	.20	13	2.14	.04	.03	1
L90-171R	1	95	6	67	1	6	20	882	5.43	5	5	ND	1	60	1.2	2	2	111	2.50	.120	7	16	.91	40	.21	13	1.77	.04	.17	1
L90-310R	1	67	6	44	1	16	12	312	3.54	2	5	ND	6	32	6	2	3	114	.90	.162	14	37	.75	49	.18	4	.89	.03	.12	1
STANDARD C	19	58	43	128	7.2	72	31	1027	3.96	43	18	6	39	53	18.5	16	23	56	.48	.094	40	59	.88	180	.07	35	1.85	.06	.14	12

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

DATE RECEIVED: JUL 23 1990 DATE REPORT MAILED:

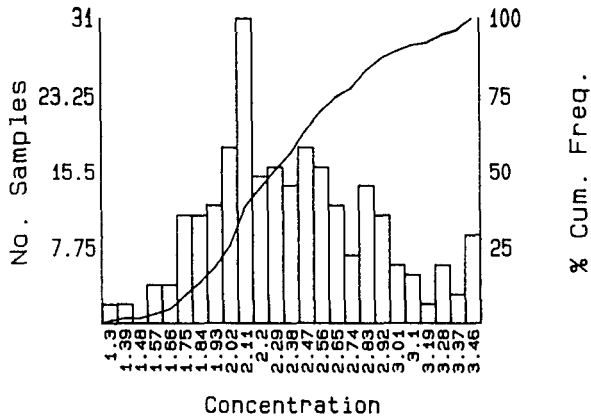
SIGNED BY  J.D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

APPENDIX 3

DOT-PLOT STATISTICS (FIGS. 35-64)

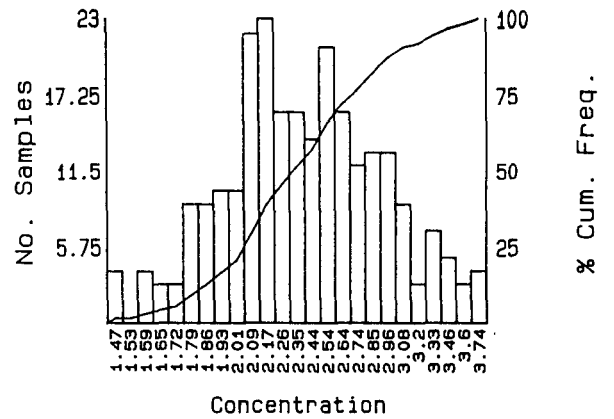
ALUMINUM (%)

TRUNCATED ARITHMETIC



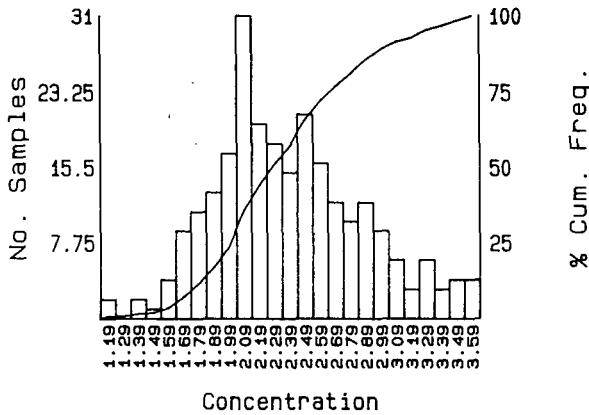
Mean = 2.335
SD = .431

TRUNCATED LOGARITHMIC



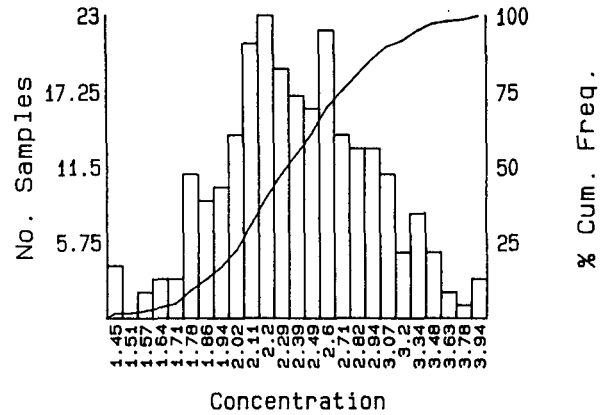
Mean = 2.305
SD = .001

ARITHMETIC



Mean = 2.394
SD = .498

LOGARITHMIC



Mean = 2.343
SD = .001

Number Samples = 249
Minimum Value = 1.16
Maximum Value = 3.91

SUBSET CRITERIA

Property Code (s) = [] East North
Sample Type (s) = []
Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

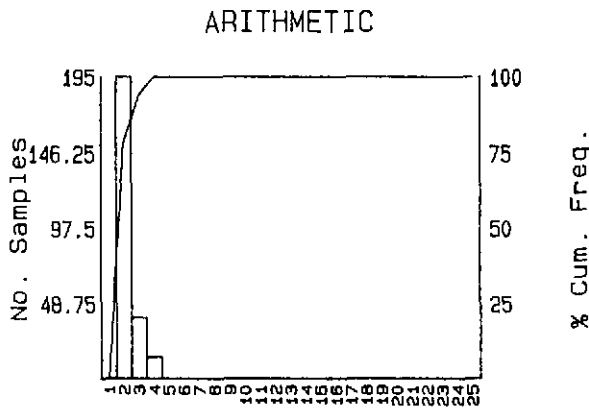
Date
JULY 1990

Report No.

N.T.S.
93N/1E

Fig. No.
35

BP RESOURCES CANADA LIMITED



Concentration
 Mean = 2.273
 SD = .559

Number Samples = 249
 Minimum Value = 2
 Maximum Value = 4

SUBSET CRITERIA
 Property Code (s) = [] East North
 Sample Type (s) = []
 Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

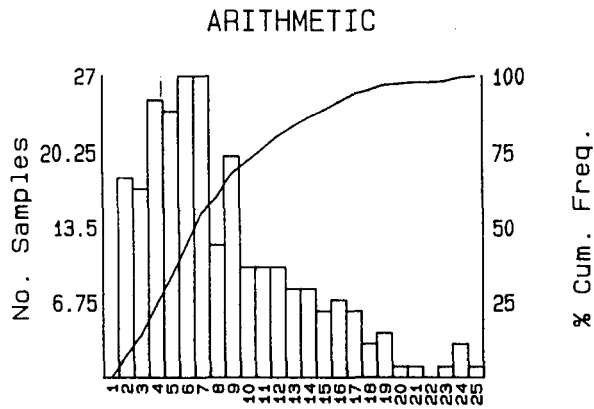
N.T.S.

93N/1E

Fig. No.

36

BP RESOURCES CANADA LIMITED



Concentration
 Mean = 8.39
 SD = 5.261

Number Samples = 249
 Minimum Value = 2
 Maximum Value = 39

SUBSET CRITERIA
 Property Code (s) = [] East North
 Sample Type (s) = []
 Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

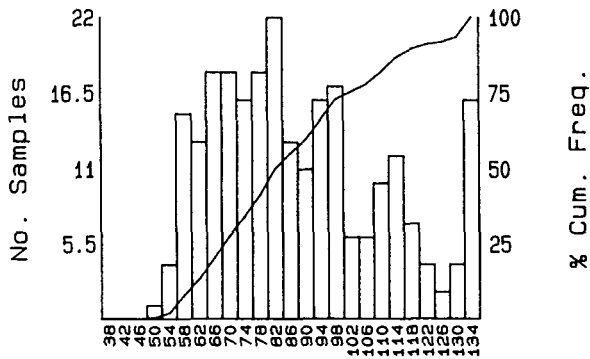
LIP #1 M.C.

Project Code	Date JULY 1990	Report No.	N.T.S. 93N/1E	Fig. No. 37
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BP RESOURCES CANADA LIMITED

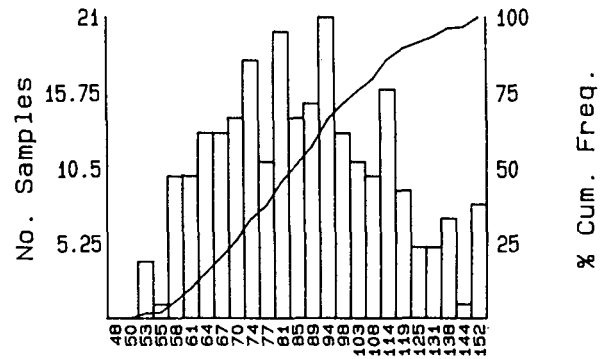
BARIUM (ppm)

TRUNCATED ARITHMETIC



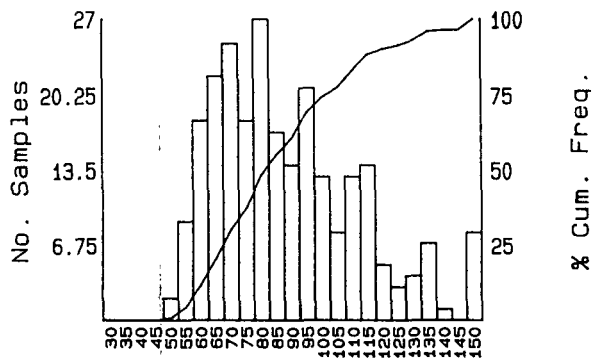
Concentration
 Mean = 85.322
 SD = 19.955

TRUNCATED LOGARITHMIC



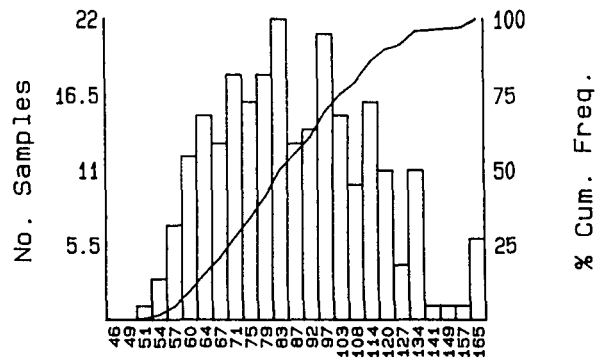
Concentration
 Mean = 83.721
 SD = .104

ARITHMETIC



Concentration
 Mean = 88.811
 SD = 24.721

LOGARITHMIC



Concentration
 Mean = 85.701
 SD = .115

Number Samples = 249
 Minimum Value = 51
 Maximum Value = 179

SUBSET CRITERIA
 Property Code(s) = [] East North
 Sample Type(s) = []
 Lab. Code(s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date
 JULY 1990

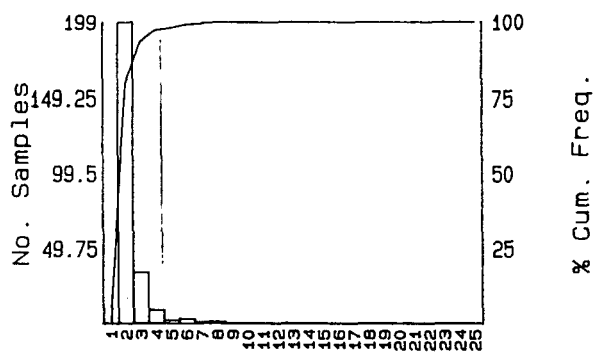
Report No.

N.T.S.
 93N/1E

Fig. No.
 38

BP RESOURCES CANADA LIMITED

ARITHMETIC



Mean = 2.325
SD = .83

Number Samples = 249
Minimum Value = 2
Maximum Value = 8

SUBSET CRITERIA

Property Code (s) = East North
Sample Type (s) =
Lab. Code (s) =

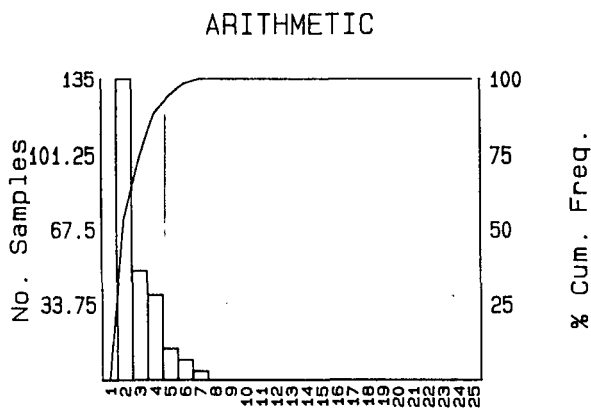
SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code	Date	Report No.	N.T.S.	Fig. No.
	JULY 1990		93N/1E	39

BP RESOURCES CANADA LIMITED



Concentration

Mean = 2.896
SD = 1.224

Number Samples = 249 Minimum Value = 2 Maximum Value = 7	SUBSET CRITERIA Property Code (s) = [] East North Sample Type (s) = [] Lab. Code (s) = []
----------------------------------------------------------------	----------------------------------------------------------------------------------------------------

SOIL GEOCHEMICAL SURVEY - JUNE

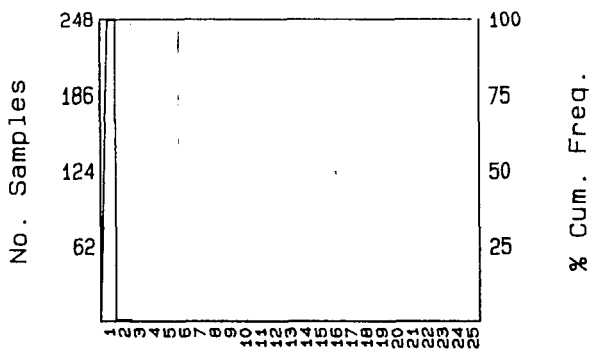
Project Name

LIP #1 M.C.

Project Code	Date JULY 1990	Report No.	N.T.S. 93N/1E	Fig. No. 40
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BP RESOURCES CANADA LIMITED

ARITHMETIC



Concentration
 Mean = 1.016
 SD = .078

Number Samples = 249
 Minimum Value = 1
 Maximum Value = 1.8

SUBSET CRITERIA
 Property Code (s) = East North
 Sample Type (s) =
 Lab. Code (s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

N.T.S.

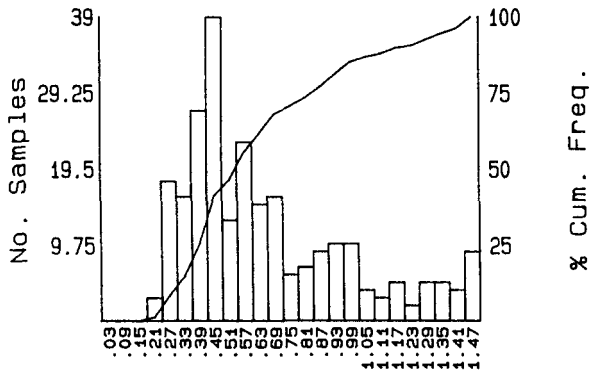
93N/1E

Fig. No.

41

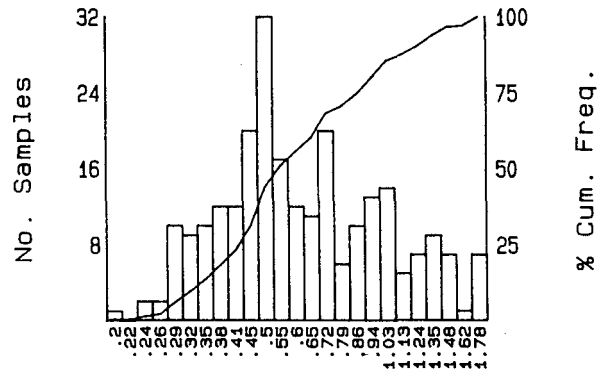
BP RESOURCES CANADA LIMITED

TRUNCATED ARITHMETIC



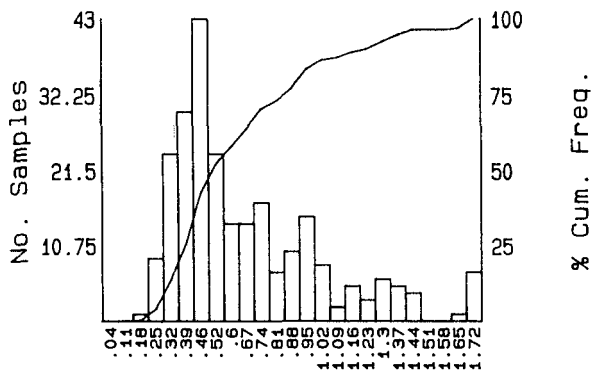
Concentration
 Mean = .616
 SD = .274

TRUNCATED LOGARITHMIC



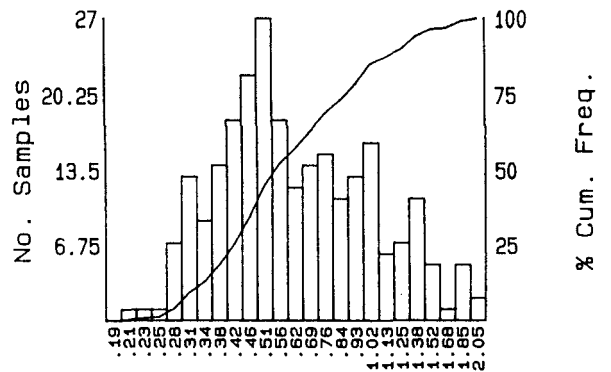
Concentration
 Mean = .576
 SD = .002

ARITHMETIC



Concentration
 Mean = .68
 SD = .377

LOGARITHMIC



Concentration
 Mean = .598
 SD = .002

Number Samples = 249
 Minimum Value = .2
 Maximum Value = 2.65

SUBSET CRITERIA
 Property Code (s) = [] East North
 Sample Type (s) = []
 Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

N.T.S.

93N/1E

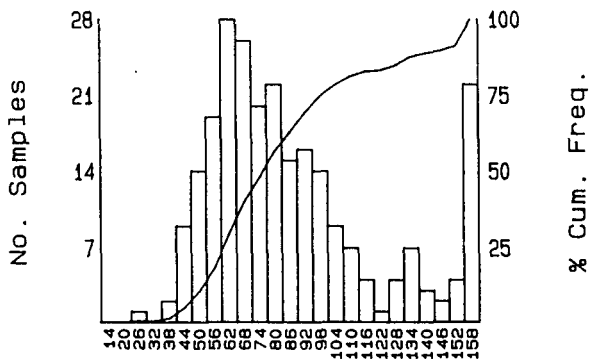
Fig. No.

42

BP RESOURCES CANADA LIMITED

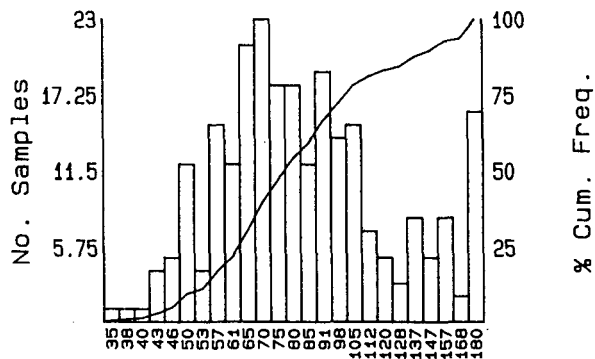
CHROMIUM (ppm)

TRUNCATED ARITHMETIC



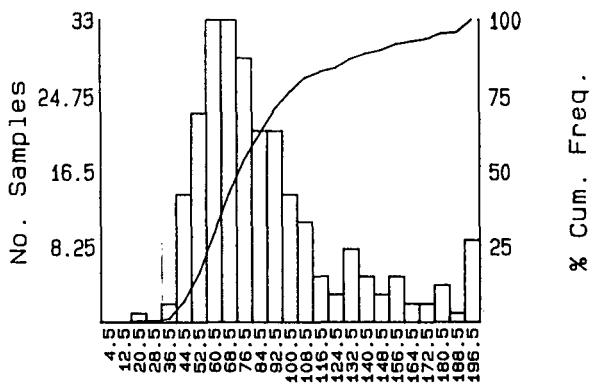
Mean = 81.803
SD = 28.3993

TRUNCATED LOGARITHMIC



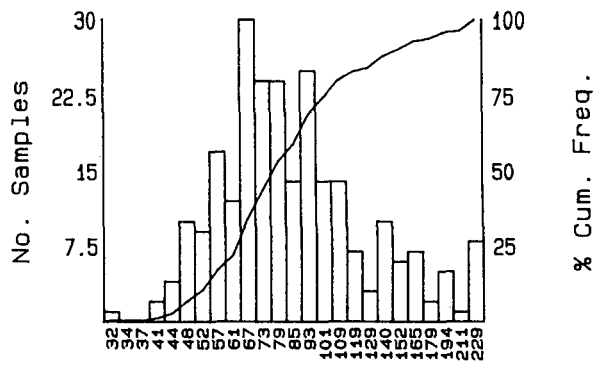
Mean = 77.61
SD = .146

ARITHMETIC



Mean = 90.329
SD = 43.475

LOGARITHMIC



Mean = 82.521
SD = .177

Number Samples = 249
Minimum Value = 23
Maximum Value = 284

SUBSET CRITERIA

Property Code(s) = [] East North
Sample Type(s) = []
Lab. Code(s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date
JULY 1990

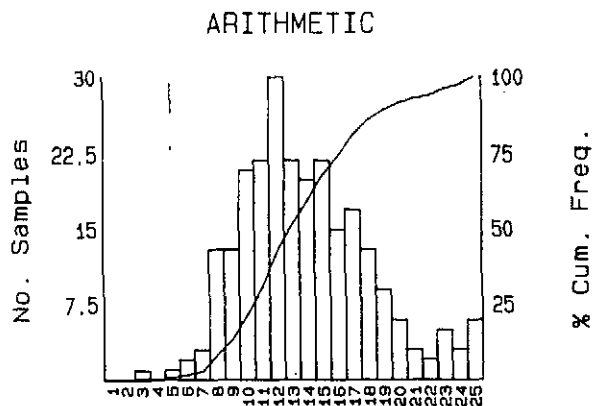
Report No.

N.T.S.
93N/1E

Fig. No.

43

BP RESOURCES CANADA LIMITED



Concentration
 Mean = 13.956
 SD = 4.354

Number Samples = 249
 Minimum Value = 3
 Maximum Value = 27

SUBSET CRITERIA

Property Code(s) = East North
 Sample Type(s) =
 Lab. Code(s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

N.T.S.

93N/1E

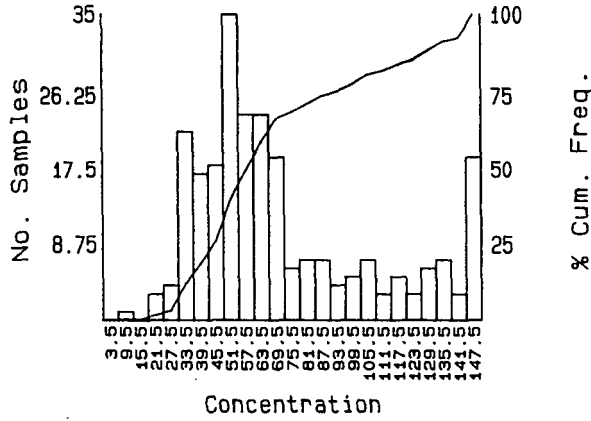
Fig. No.

44

BP RESOURCES CANADA LIMITED

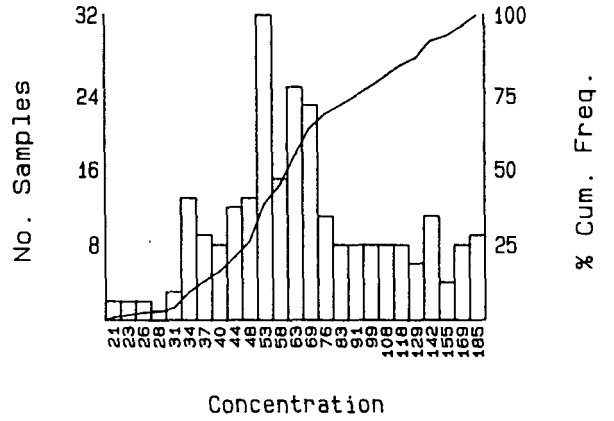
COPPER (ppm)

TRUNCATED ARITHMETIC



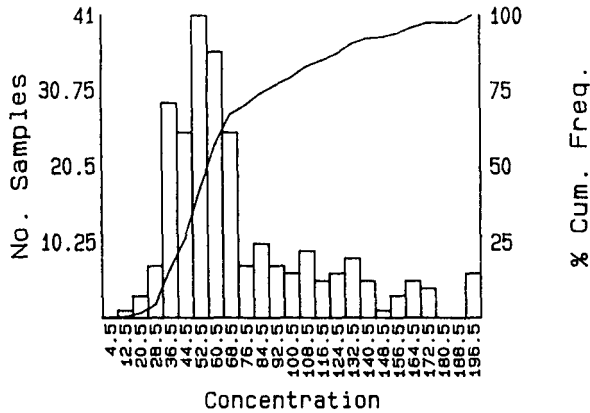
Mean = 66.139
SD = 29.641

TRUNCATED LOGARITHMIC



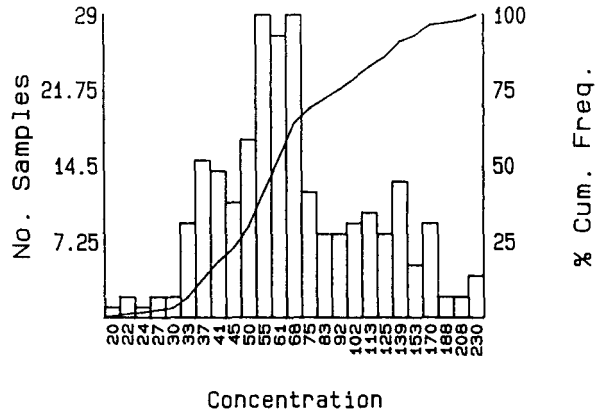
Mean = 60.953
SD = .193

ARITHMETIC



Mean = 74.361
SD = 41.528

LOGARITHMIC



Mean = 65.133
SD = .22

Number Samples = 249
Minimum Value = 12
Maximum Value = 227

SUBSET CRITERIA

Property Code (s) = East North
Sample Type (s) =
Lab. Code (s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

N.T.S.

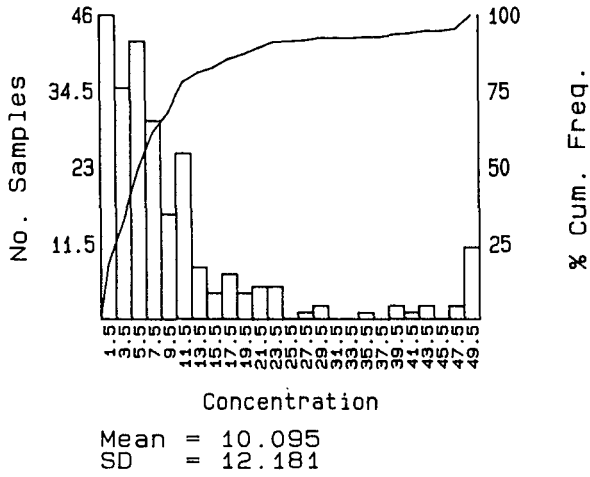
93N/1E

Fig. No.

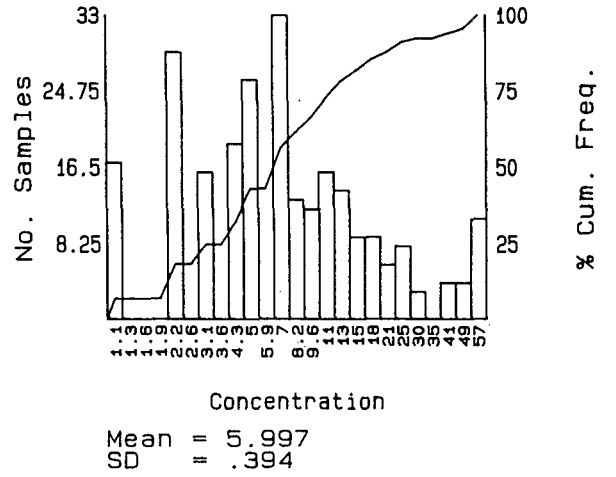
45

BP RESOURCES CANADA LIMITED

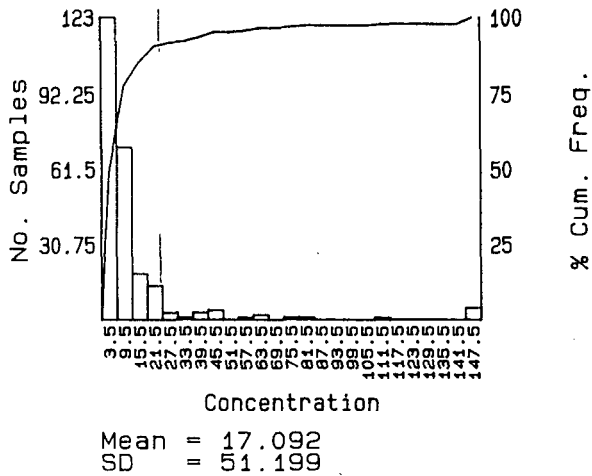
TRUNCATED ARITHMETIC



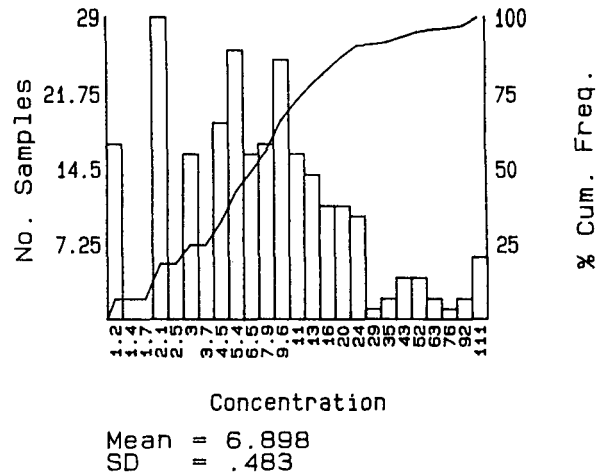
TRUNCATED LOGARITHMIC



ARITHMETIC



LOGARITHMIC



Number Samples = 249
Minimum Value = 1
Maximum Value = 512

SUBSET CRITERIA
Property Code (s) = [] East North
Sample Type (s) = []
Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date
JULY 1990

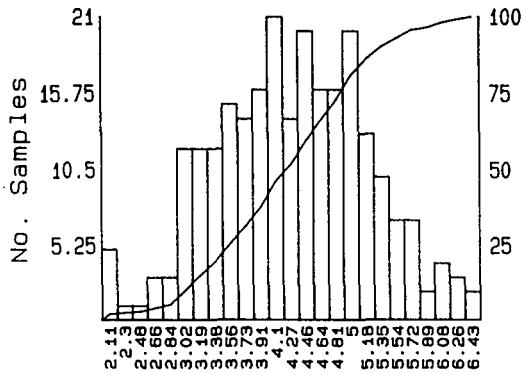
Report No.

N.T.S.
93N/1E

Fig. No. 46

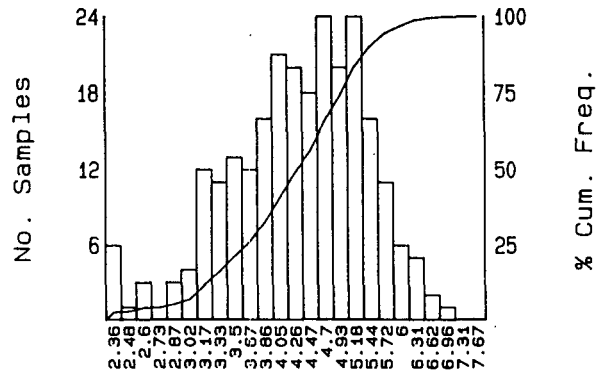
BP RESOURCES CANADA LIMITED

TRUNCATED ARITHMETIC



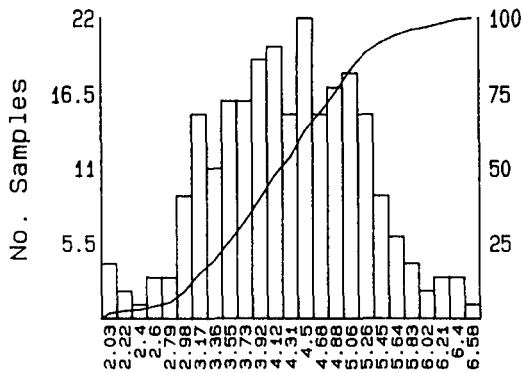
Mean = 4.207
SD = .871

TRUNCATED LOGARITHMIC



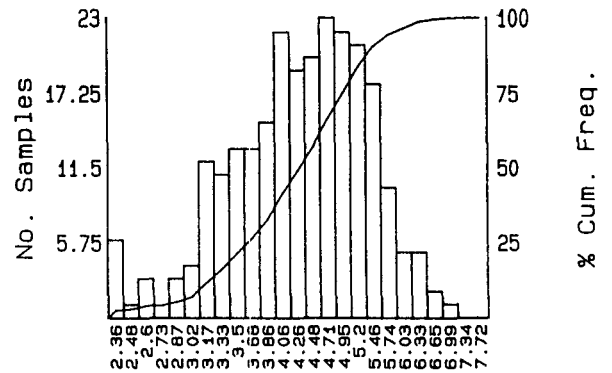
Mean = 4.158
SD = .001

ARITHMETIC



Mean = 4.281
SD = .939

LOGARITHMIC



Mean = 4.166
SD = .001

Number Samples = 249
Minimum Value = .92
Maximum Value = 6.71

SUBSET CRITERIA

Property Code (s) = [] East North
Sample Type (s) = []
Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

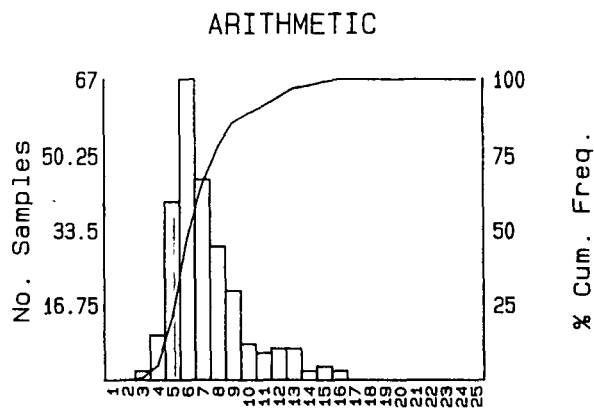
Report No.

N.T.S.

93N/1E

Fig. No.

47



Concentration
 Mean = 7.265
 SD = 2.45

Number Samples = 249
 Minimum Value = 3
 Maximum Value = 16

SUBSET CRITERIA
 Property Code (s) = [] East North
 Sample Type (s) = []
 Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

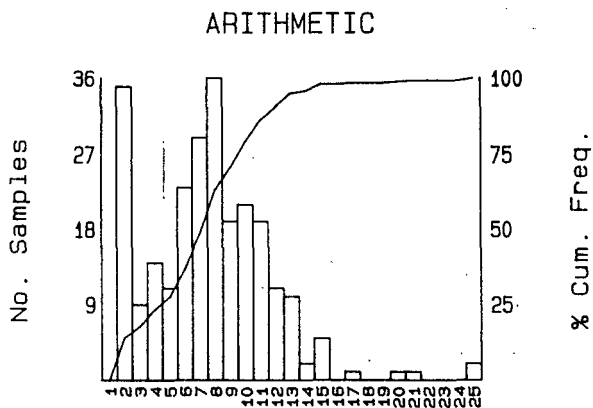
N.T.S.

93N/1E

Fig. No.

48

BP RESOURCES CANADA LIMITED



Concentration
 Mean = 7.663
 SD = 4.116

Number Samples = 249
 Minimum Value = 2
 Maximum Value = 31

SUBSET CRITERIA

Property Code(s) = East North
 Sample Type(s) =
 Lab. Code(s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date
 JULY 1990

Report No.

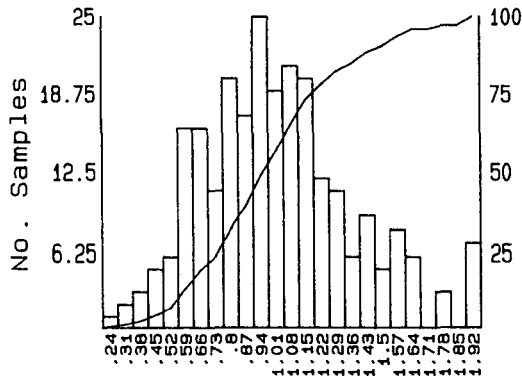
N.T.S.
 93N/1E

Fig. No.
 49

BP RESOURCES CANADA LIMITED

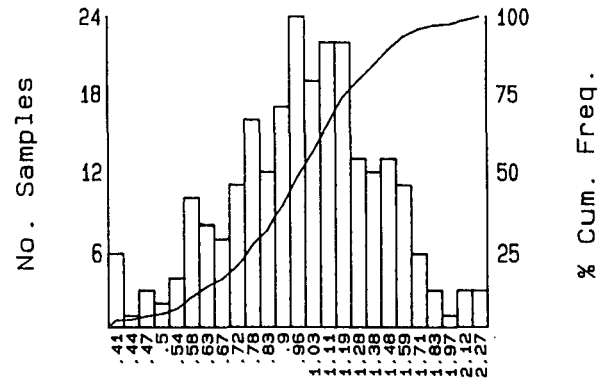
MAGNESIUM (%)

TRUNCATED ARITHMETIC



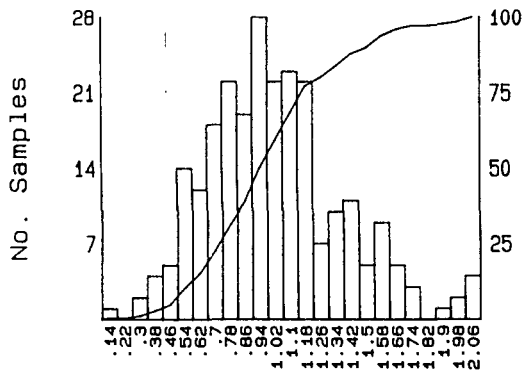
Mean = .979
SD = .31

TRUNCATED LOGARITHMIC



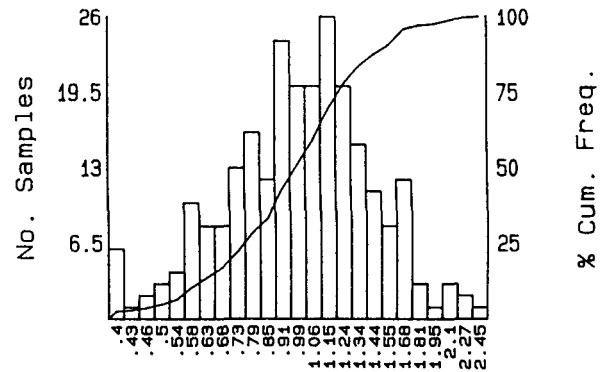
Mean = .933
SD = .002

ARITHMETIC



Mean = 1.021
SD = .367

LOGARITHMIC



Mean = .955
SD = .002

Number Samples = 249
Minimum Value = .18
Maximum Value = 2.34

SUBSET CRITERIA

Property Code (s) = [] East North
Sample Type (s) = []
Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

N.T.S.

93N/1E

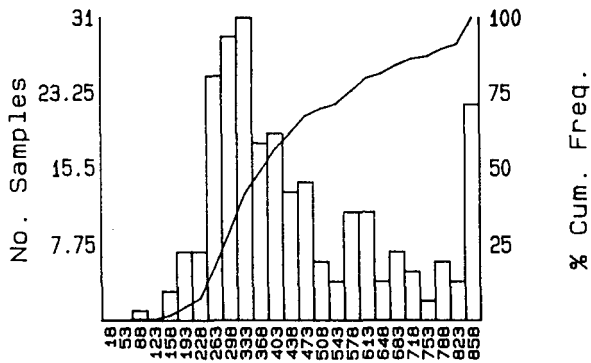
Fig. No.

50

BP RESOURCES CANADA LIMITED

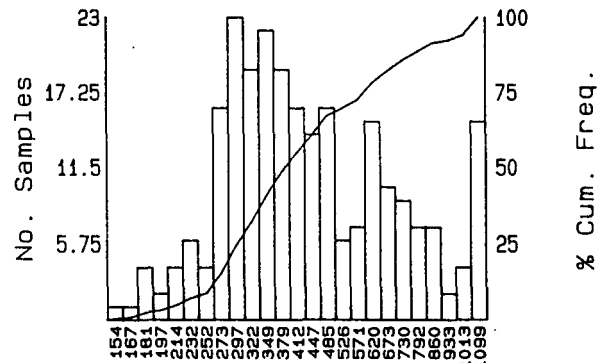
MANGANESE (ppm)

TRUNCATED ARITHMETIC



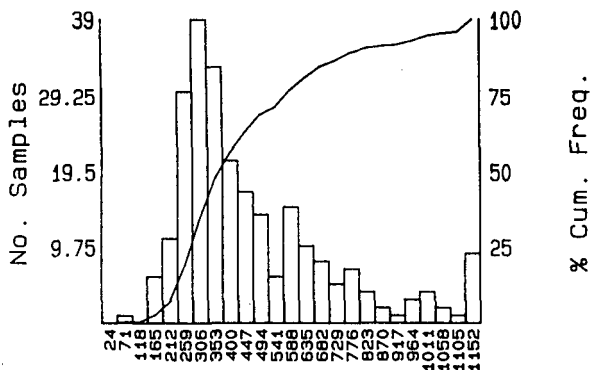
Concentration
 Mean = 425.297
 SD = 175.792

TRUNCATED LOGARITHMIC



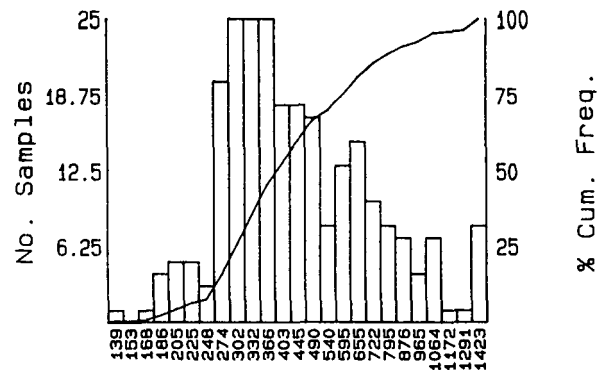
Concentration
 Mean = 395.543
 SD = .178

ARITHMETIC



Concentration
 Mean = 480.932
 SD = 274.005

LOGARITHMIC



Concentration
 Mean = 423.996
 SD = .21

Number Samples = 249
 Minimum Value = 94
 Maximum Value = 1861

SUBSET CRITERIA

Property Code (s) = East North
 Sample Type (s) =
 Lab. Code (s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date
 JULY 1990

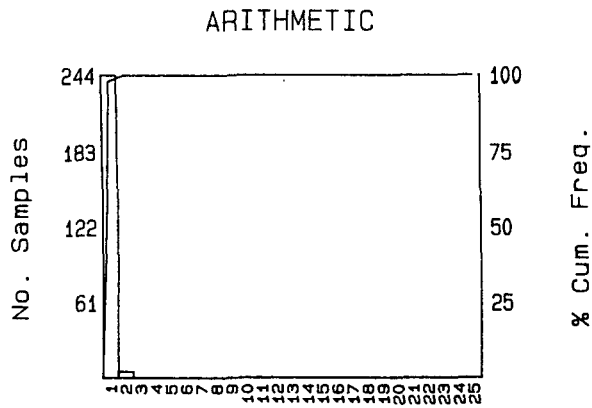
Report No.

N.T.S.
 93N/1E

Fig. No.
 51

BP RESOURCES CANADA LIMITED

MOLYBDENUM (ppm)



Concentration
 Mean = 1.02
 SD = .141

Number Samples = 249
 Minimum Value = 1
 Maximum Value = 2

SUBSET CRITERIA
 Property Code (s) = [] East North
 Sample Type (s) = []
 Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

N.T.S.

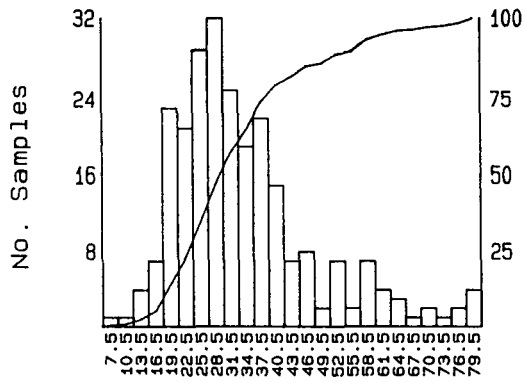
93N/1E

Fig. No.

52

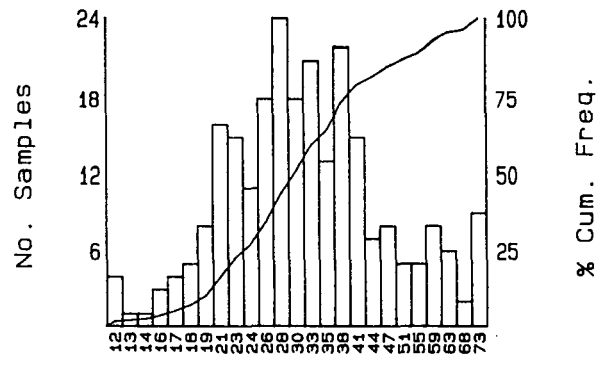
BP RESOURCES CANADA LIMITED

TRUNCATED ARITHMETIC



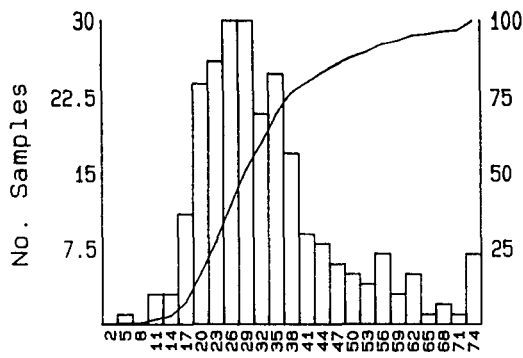
Concentration
 Mean = 30.792
 SD = 10.24

TRUNCATED LOGARITHMIC



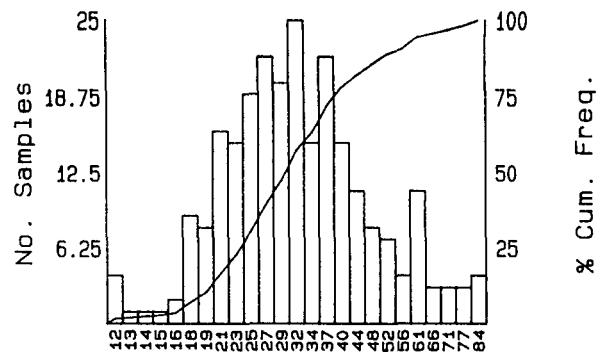
Concentration
 Mean = 29.744
 SD = .157

ARITHMETIC



Concentration
 Mean = 33.55
 SD = 14.121

LOGARITHMIC



Concentration
 Mean = 30.96
 SD = .174

Number Samples = 249
 Minimum Value = 6
 Maximum Value = 81

SUBSET CRITERIA
 Property Code(s) = East North
 Sample Type(s) =
 Lab. Code(s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

Report No.

N.T.S.

Fig. No.

JULY 1990

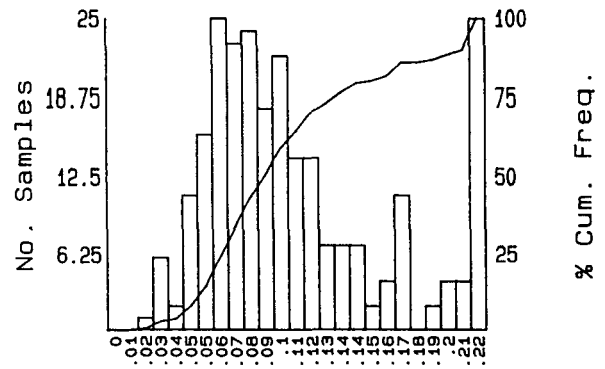
93N/1E

53

BP RESOURCES CANADA LIMITED

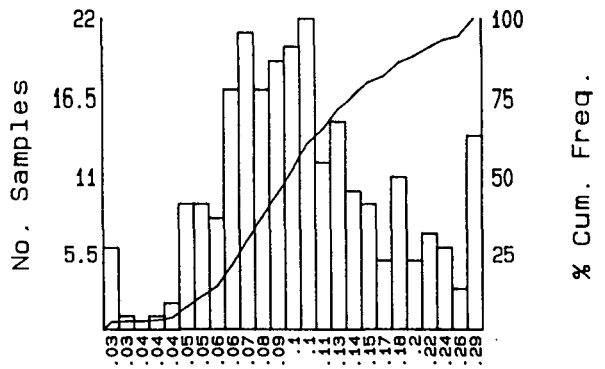
PHOSPHORUS (%)

TRUNCATED ARITHMETIC



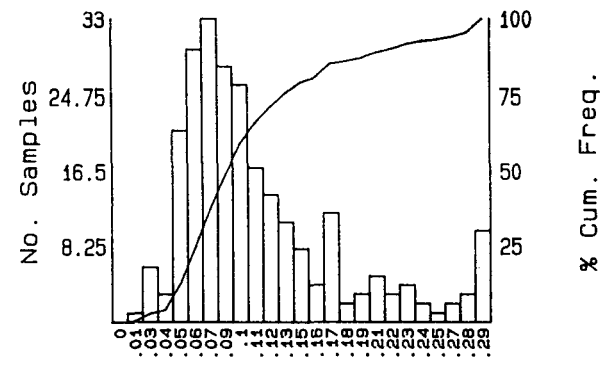
Concentration
 Mean = .104
 SD = .046

TRUNCATED LOGARITHMIC



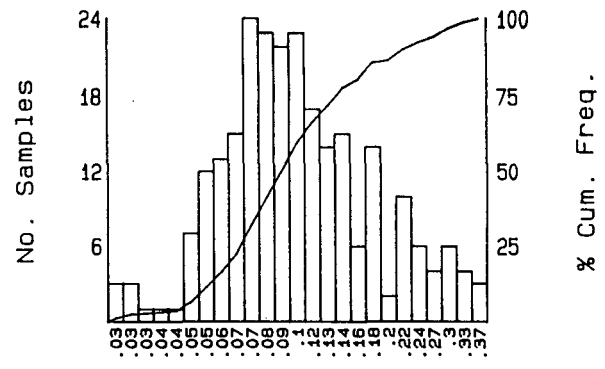
Concentration
 Mean = .096
 SD = 0

ARITHMETIC



Concentration
 Mean = .118
 SD = .068

LOGARITHMIC



Concentration
 Mean = .103
 SD = 0

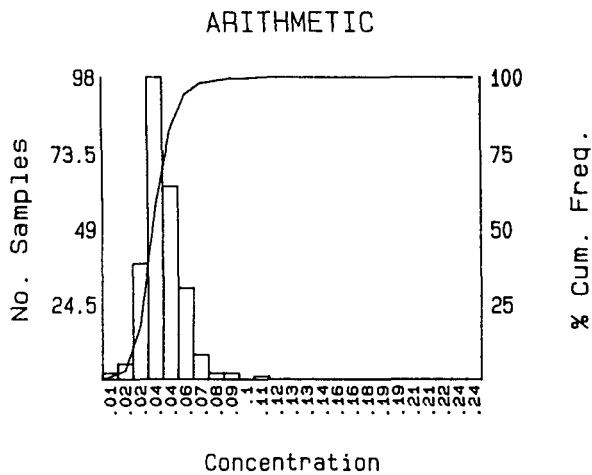
Number Samples = 249
 Minimum Value = .022
 Maximum Value = .357

SUBSET CRITERIA
 Property Code (s) = [] East North
 Sample Type (s) = []
 Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name				
LIP #1 M.C.				
Project Code	Date	Report No.	N.T.S.	Fig. No.
	JULY 1990		93N/E	54

BP RESOURCES CANADA LIMITED



Mean = .045
SD = .013

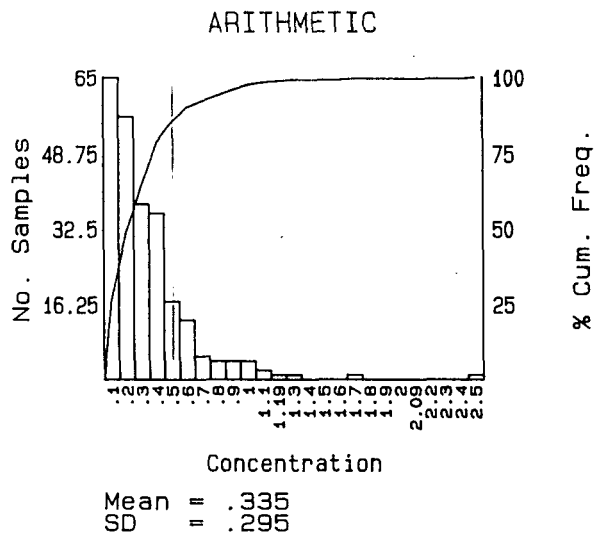
Number Samples = 249
Minimum Value = .01
Maximum Value = .11

SUBSET CRITERIA
Property Code(s) = [] East North
Sample Type(s) = []
Lab. Code(s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name				
LIP #1 M.C.				
Project Code	Date	Report No.	N.T.S.	Fig. No.
	JULY 1990		93N/1E	55

BP RESOURCES CANADA LIMITED



Number Samples = 249
Minimum Value = .1
Maximum Value = 2.8

SUBSET CRITERIA

Property Code (s) = [] East North
Sample Type (s) = []
Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

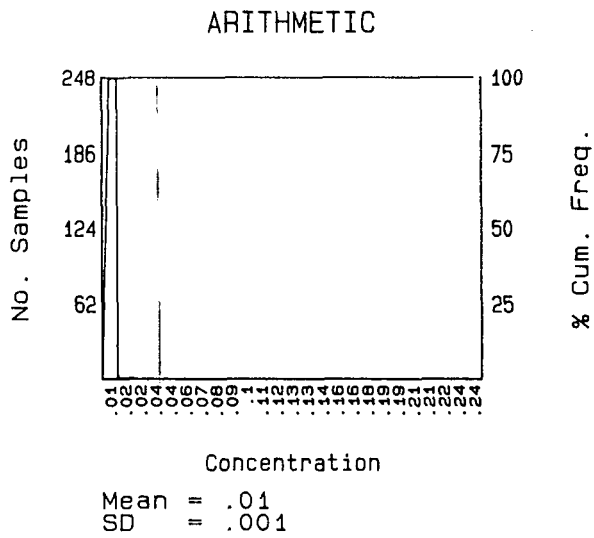
N.T.S.

93N/1E

Fig. No.

56

BP RESOURCES CANADA LIMITED



Number Samples = 249
Minimum Value = .01
Maximum Value = .02

SUBSET CRITERIA
Property Code (s) = [] East North
Sample Type (s) = []
Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

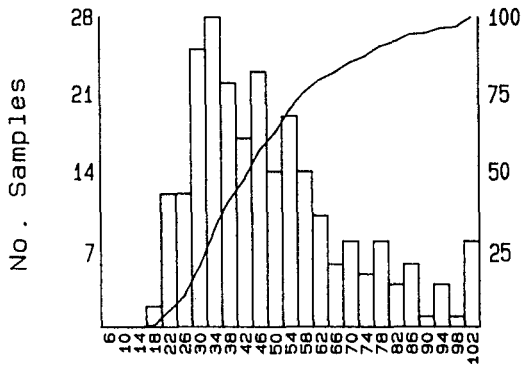
LIP #1 M.C.

Project Code	Date JULY 1990	Report No.	N.T.S. 93N/1E	Fig. No. 57
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BP RESOURCES CANADA LIMITED

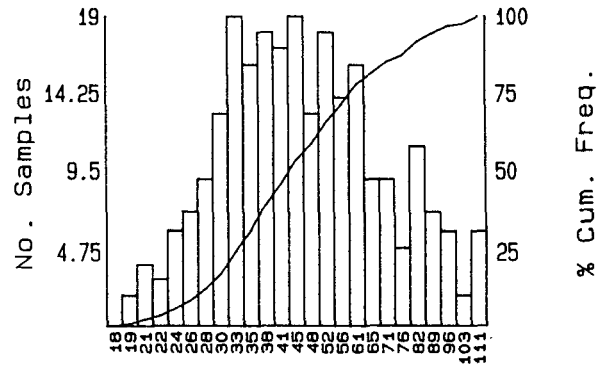
STRONTIUM (ppm)

TRUNCATED ARITHMETIC



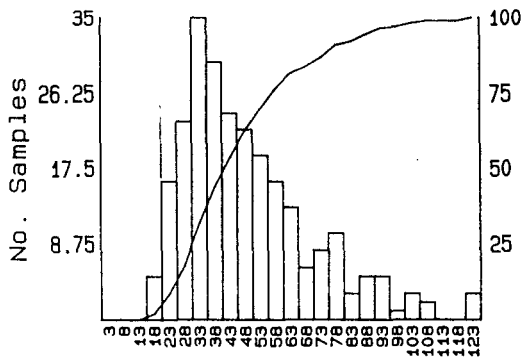
Concentration
 Mean = 45.681
 SD = 16.707

TRUNCATED LOGARITHMIC



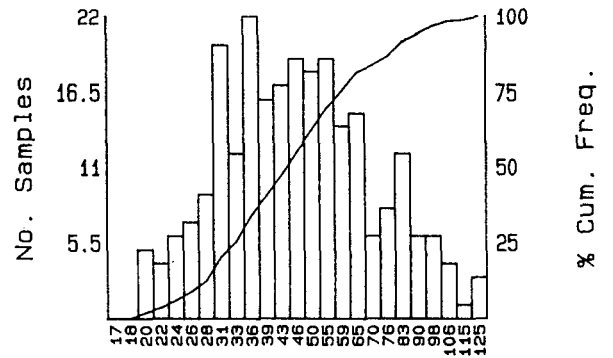
Concentration
 Mean = 43.469
 SD = .164

ARITHMETIC



Concentration
 Mean = 49.04
 SD = 21.611

LOGARITHMIC



Concentration
 Mean = 44.975
 SD = .179

Number Samples = 249
 Minimum Value = 19
 Maximum Value = 149

SUBSET CRITERIA

Property Code (s) = East North
 Sample Type (s) =
 Lab. Code (s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date
 JULY 1990

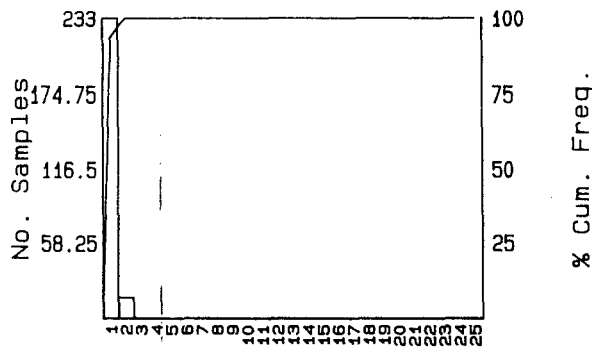
Report No.

N.T.S.
 93N/1E

Fig. No. 58

BP RESOURCES CANADA LIMITED

ARITHMETIC



Concentration
 Mean = 1.064
 SD = .246

Number Samples = 249
 Minimum Value = 1
 Maximum Value = 2

SUBSET CRITERIA

Property Code (s) = East North
 Sample Type (s) =
 Lab. Code (s) =

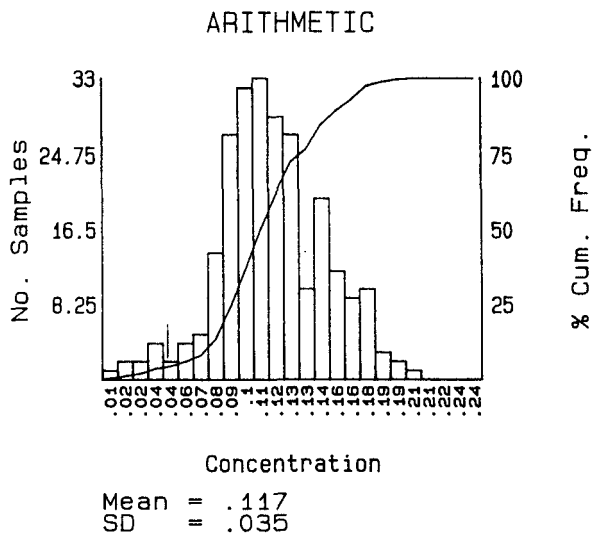
SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code	Date	Report No.	N.T.S.	Fig. No.
	JULY 1990		93N/1E	59

BP RESOURCES CANADA LIMITED



Number Samples = 249
Minimum Value = .01
Maximum Value = .21

SUBSET CRITERIA

Property Code (s) = [] East North
Sample Type (s) = []
Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

N.T.S.

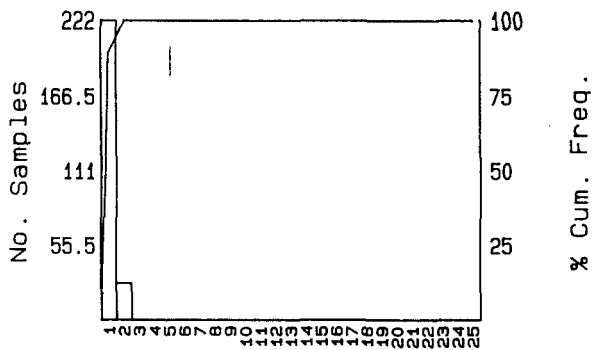
93N/1E

Fig. No.

60

BP RESOURCES CANADA LIMITED

ARITHMETIC



Concentration
 Mean = 1.108
 SD = .312

Number Samples = 249
 Minimum Value = 1
 Maximum Value = 2

SUBSET CRITERIA

Property Code (s) = East North
 Sample Type (s) =
 Lab. Code (s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

JULY 1990

Report No.

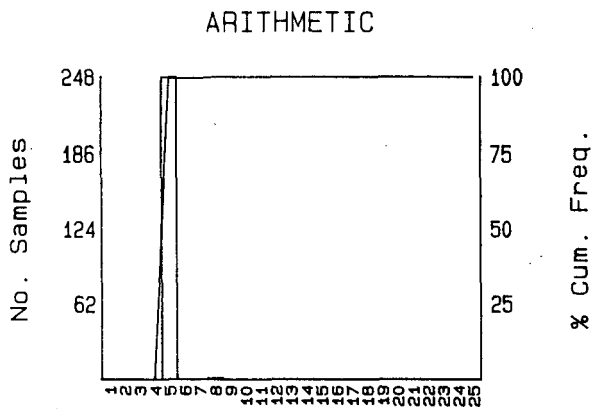
N.T.S.

93N/1E

Fig. No.

61

BP RESOURCES CANADA LIMITED



Concentration

Mean = 5.012
SD = .19

Number Samples = 249
Minimum Value = 5
Maximum Value = 8

SUBSET CRITERIA

Property Code (s) = East North
Sample Type (s) =
Lab. Code (s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date

Report No.

N.T.S.

Fig. No.

JULY 1990

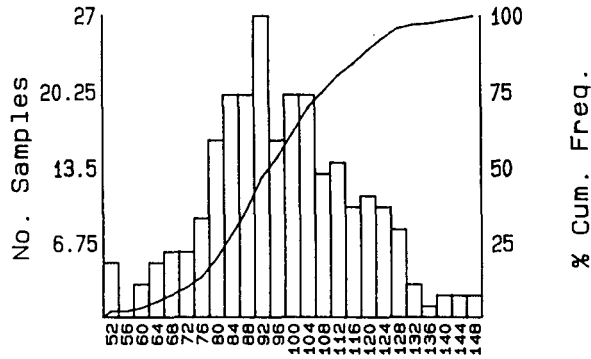
93N/1E

62

BP RESOURCES CANADA LIMITED

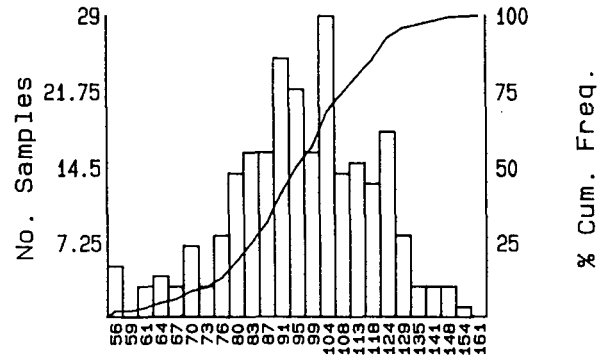
VANADIUM (ppm)

TRUNCATED ARITHMETIC



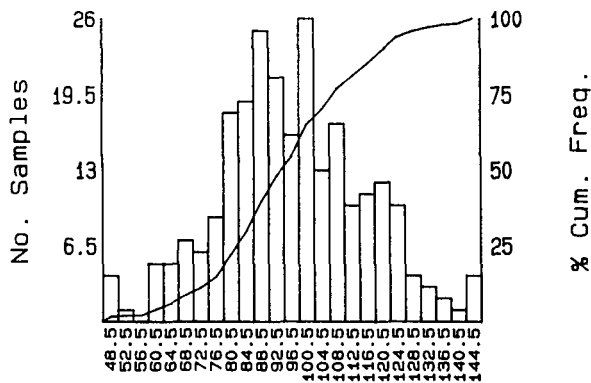
Concentration
 Mean = 94.9
 SD = 18.208

TRUNCATED LOGARITHMIC



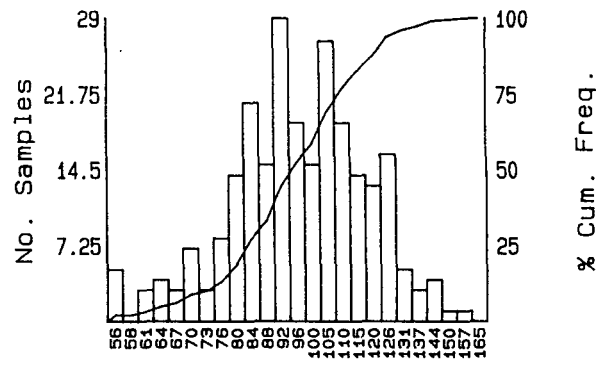
Concentration
 Mean = 93.511
 SD = .095

ARITHMETIC



Concentration
 Mean = 96.41
 SD = 19.774

LOGARITHMIC



Concentration
 Mean = 94.195
 SD = .098

Number Samples = 249
 Minimum Value = 31
 Maximum Value = 154

SUBSET CRITERIA
 Property Code (s) = [] East North
 Sample Type (s) = []
 Lab. Code (s) = []

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date
 JULY 1990

Report No.

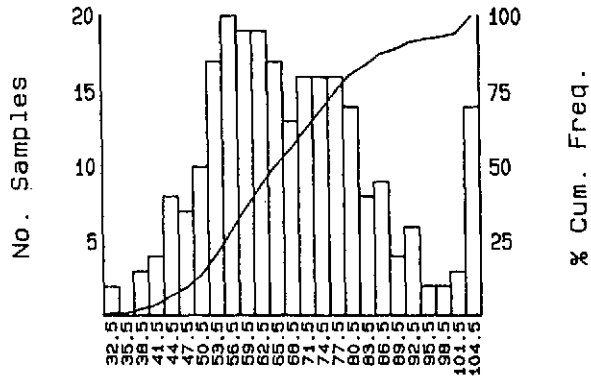
N.T.S.
 93N/1E

Fig. No.

63

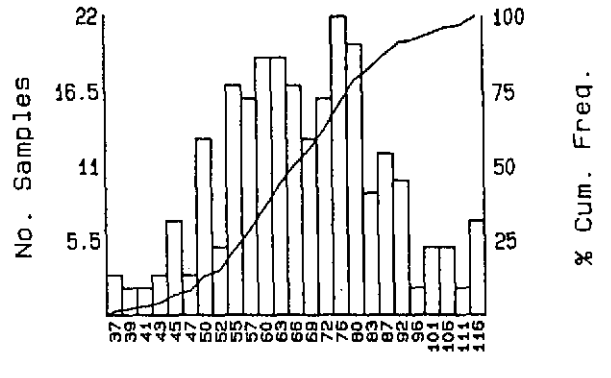
BP RESOURCES CANADA LIMITED

TRUNCATED ARITHMETIC



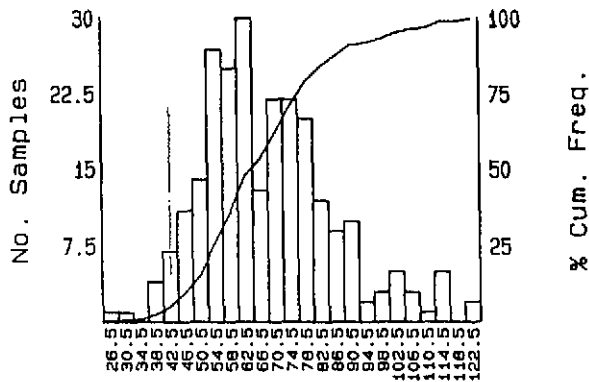
Concentration
 Mean = 65.773
 SD = 14.093

TRUNCATED LOGARITHMIC



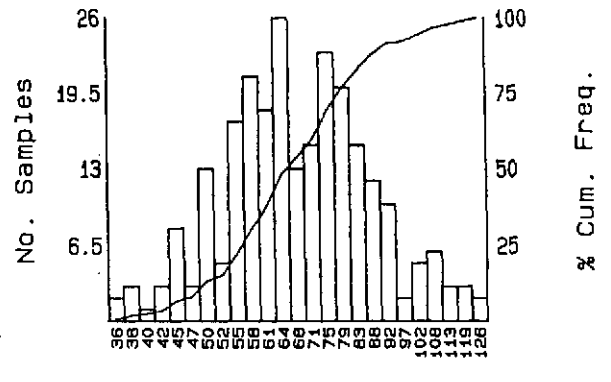
Concentration
 Mean = 64.822
 SD = .102

ARITHMETIC



Concentration
 Mean = 68.639
 SD = 17.597

LOGARITHMIC



Concentration
 Mean = 66.452
 SD = .112

Number Samples = 249
 Minimum Value = 22
 Maximum Value = 130

SUBSET CRITERIA

Property Code (s) = East North
 Sample Type (s) =
 Lab. Code (s) =

SOIL GEOCHEMICAL SURVEY - JUNE

Project Name

LIP #1 M.C.

Project Code

Date
 JULY 1990

Report No.

N.T.S.
 93N/E

Fig. No.

64

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APPENDIX 4

DESCRIPTION OF FLOAT SAMPLES

L90-28R GRID: 6S, 4W 4 ppb Au, 35 ppm Cu, 1 ppm Mo

Takla augite porphyry with trace chalcopyrite as replacement in mafics. Magnetic. Subrounded.

L90-54R GRID: 13S, 2W 9 ppb Au, 41 ppm Cu, 1 ppm Mo

Fine-grain felsic volcanic containing about 1/4 % disseminated pyrite; no visible chalcopyrite. Non-magnetic. Subrounded.

L90- 114R GRID: 12+35 W 0+00 S 47 ppb Au, 104 ppm Cu, 1 ppm Mo

Very fine-grain intrusive (unmineralized) in contact with Takla andesite (mineralized with minor disseminated pyrite and chalcopyrite). Magnetic. Subrounded.

L90-171R GRID: 19 W, 6S 3ppb Au, 95 ppm Cu, 1 ppm Mo

Augite porphyry Takla from 2 m X 4 m. erratic containing trace pyrite and chalcopyrite. Strongly magnetic. Subrounded.

L90-310R GRID: 3+40 S, 8W 3ppb Au, 67 ppm Cu, 1 ppm Mo

Porphyritic monzonite characterized by plagioclase laths to 1.5 cm. About 10 % mafics incl. magnetite. Pink feldspar ground mass (K-spatized ?). Trace disseminated chalcopyrite. Strongly magnetic. Well rounded.

APPENDIX 5.

CHEMEX PREPARATION AND ANALYTICAL PROCEDURES FOR FA-NAA

LOWER DETECTION LIMIT FOR GOLD: 1 ppb

Soil geochemical preparation - Codes 201, 203:

Geochemical samples (soils, silts) are dried at 50 deg. C for a period of 12 to 24 hours. The dried sample is sieved to -80 mesh fraction through a nylon and stainless steel sieve. Prep. Code 201 refers to the -80 mesh material. If insufficient sample is obtained, sample is sieved to -35 mesh and ring pulverized. Prep. code 203 refer to the -35 mesh procedure.

Rock preparation code (Code 205):

1. Entire sample is crushed in jaw crusher to approximately 3/4 inch.
2. Sample is crushed in gyratory cone crusher to approximately 1/8 inch.
3. Sample is split in Jones Riffler to approximately 200-300 grams.
4. Sample is pulverized in ring grinder to approximately 150 mesh.

Au fire assay-NAA ppb-Chemex Code 101.

A 10 gram sample is fused in litharge, carbonate and silicious flux. The resulting lead button contains any gold in the sample. The resulting lead button containing any gold in the sample is cupelled in a muffle furnace to produce a precious metal bead.

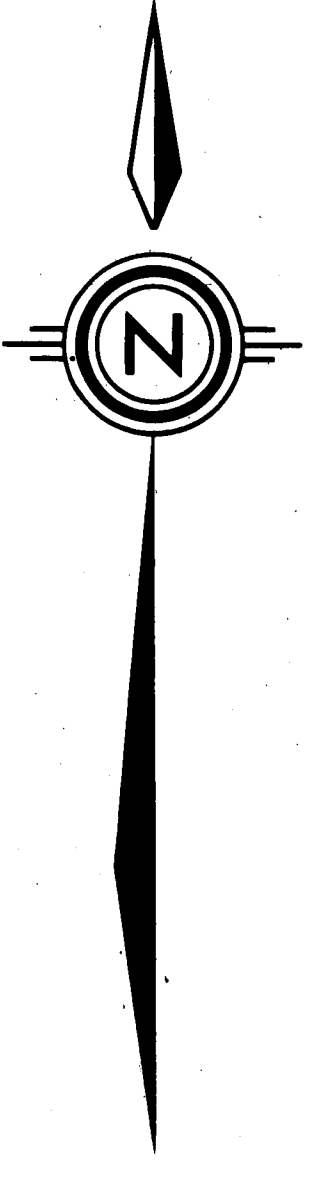
Sample beads plus standard beads and irradiated in a thermal neutron flux. The gamma emissions of the irradiated beads are counted utilizing a Ge (Li) detector and quantified for gold. The detection limit is 1 ppb Au.

ACME ICP analysis

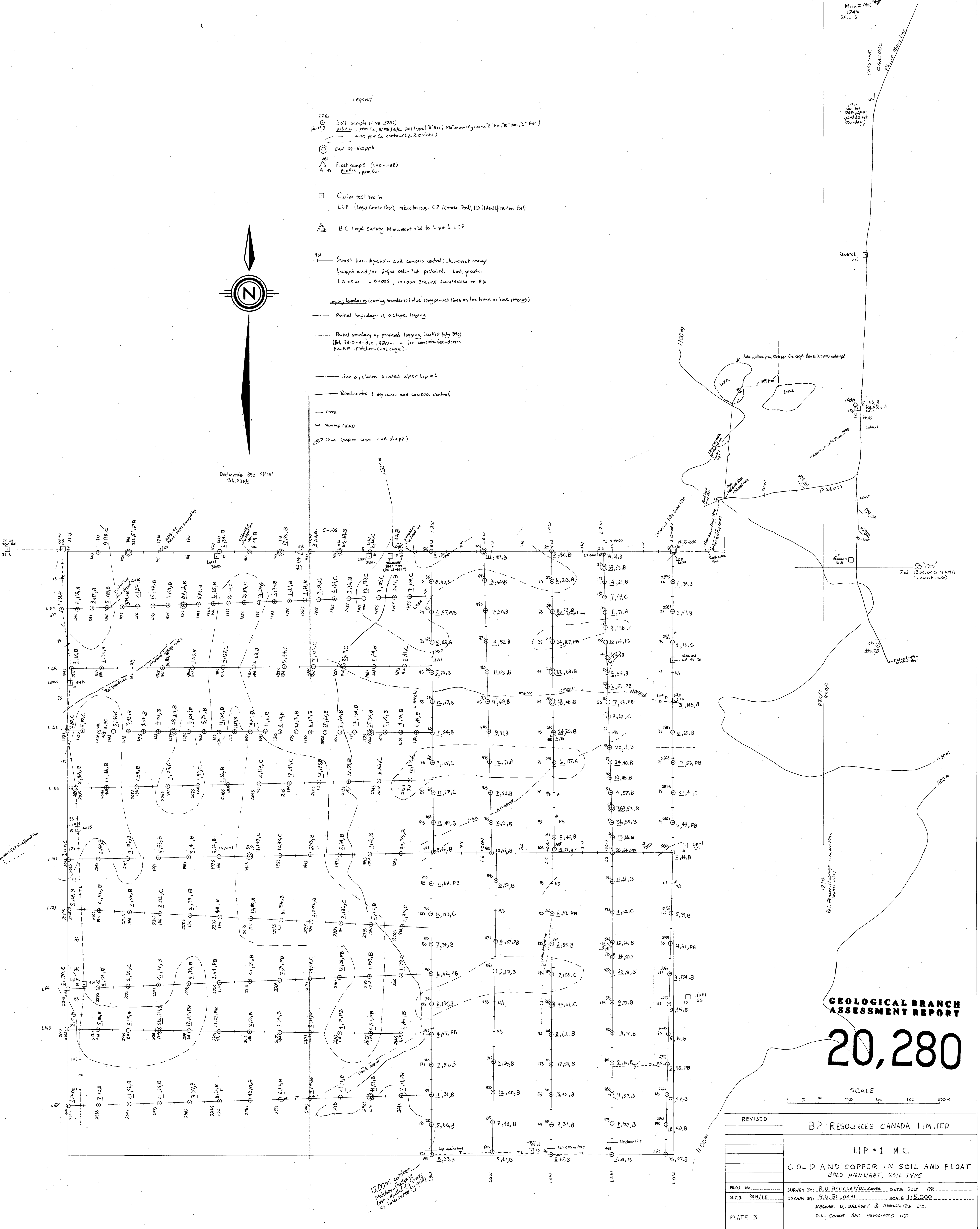
The method used is summarized at the bottom of the data sheets. Detection limits are indicated in Table 2.

Legend

- 2785 Soil sample (L90-2785)
ppm Au, ppm Cu, ppm Pb, ppm Zn, soil type (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ
- 282 Float sample (140-282)
ppm Au, ppm Cu
- Claim post tied in
LCP (Legal Corner Post), miscellaneous: CP (corner Post), ID (Identification Post)
- B.C. Legal Survey Monument tied to Lip #1 LCP
- Sample line: Hip-chain and compass control; fluorescent orange flagged and/or 2-foot cedar lath picketed. Lath pickets: L0+00, L0+00S, 10+00S BACELINE from 10+00 to 8+00.
- Logging boundaries (cutting boundaries: blue spray-painted lines on the trunk or blue flagging):
 - Partial boundary of active logging
 - Partial boundary of proposed logging (earliest July 1990) (Ref. 93-0-4-d.c. 93A-1-A for complete boundaries B.C.F.P. - Fletcher-Challenge).
 - Line of claim located after Lip #1
 - Road centre (Hip chain and compass control)
 - Creek
 - Swamp (white)
 - Pond (approx. size and shape)



Declination 1990: 24° 15'
24.9341



GEOLOGICAL BRANCH ASSESSMENT REPORT

20,280

SCALE 0 100 200 300 400 500 M

REVISED	BP RESOURCES CANADA LIMITED
	LIP #1 M.C.
	GOLD AND COPPER IN SOIL AND FLOAT GOLD HIGHLIGHT, SOIL TYPE
PROJ. No.	SURVEY BY: R.V. BRUGSET/D.L. COOKE DATE: JULY 1990
N.T.S. PLAN/LE	DRAWN BY: R.V. BRUGSET SCALE: 1:5,000
	RAGNAR U. BRUGSET & ASSOCIATES LTD.
PLATE 3	D.L. COOKE AND ASSOCIATES LTD.